L-UNDER THE HOOD SERVICE

L10	EMISSION CONTROL	L10
L11	FUEL SYSTEM PARTS	L11
L12	FUEL FILTERS	L12
L13	RADIATOR / OIL / FUEL CAPS	L13
L14	LUBRICATION	L14
L15	MISC. ENGINE HARDWARE	L15
L17	AIR CONDITIONING	L17

L-UNDER THE HOOD

L10-EMISSION CONTROL

EGR Velve Carbon Filter Gaskets . .L10-2
PCV Valves L10-1
Interchange L10-2

L11-FUEL SYSTEM PARTS

Fuel Injection Hose L11-1
Fuel Injection Hose Clamps L11-1
Fuel Line/Vacuum Hose L11-1
Hoses L11-1
Springs L11-3
Vacuum Caps L11-3
Vacuum Hose Fittings L11-2-3

L12-FUEL FILTERS

Fuel Filters
Chrysler/Dodge/Jeep L12-3
Ford L12-2
General Motors L12-1
Import L12-3
Interchange L12-3
Universal L12-1
Fuel Filter Clips & Gaskets L12-4
Fuel Line Quick Disconnects & Clips L12-4
Fuel Line Repair L12-5-6

L13-RADIATOR, OIL & FUEL CAPS

Fuel Caps L13-2
Oil Filler Caps L13-2
Overflow Tank Caps L13-1
Radiator Caps L13-1
Radiator Pressure Tester L13-1

L14-LUBRICATION

Drain Plugs
Assortments L14-1
Differential L14-7
Emergency L14-6
Fractional L14-2
Heli-Coil Oil Drain Pan Repair Kits .L14-7
Metric L14-3-6
O-Ring L14-8
One-Time L14-2, 6
Oversize L14-2
Plate L14-8
Replacement L14-6
Toggle L14-6
Torx Adapters L14-7
Transmission & Transfer L14-7
Wingnut Locking L14-6
Gaskets
Aluminum L14-11
Assortments L14-8
Copper Crush L14-11
Copper Flat L14-11
Fibre L14-11
Foldover L14-10
Fractional L14-11
Metric L14-11
Nylon L14-11
Ribbed Nylon L14-9
Rubber Insert L14-9
Specialty L14-9-10
Synthetic L14-11
Viton Insert L14-9
Grease Fittings
Assortments L14-11
Brake Bleeder Screw Caps L14-12
Button Head L14-12-13
Caps L14-12
Easy-Out Tool L14-12
Fractional L14-12-13
Hydraulic L14-12-13
Metric L14-12-13
Seal Rite Kits L14-7
Steel Plugs L14-8

L15-MISC. ENGINE HARDWARE

Drain Cocks L15-3
Gasket Material L15-1
Heater Hose L15-1
Heater Hose Accessories L15-2
Hose Coil L15-2
Hose Fittings & Connectors L15-2

L17-AIR CONDITIOING

Air Conditioning Assortments L17-1-2
Air Conditioning Parts L17
Concentrated U/V Dye L17-19
Deodorizer L17-20
Diode/Adapter/Pigtails L17-15
Dual O-Ring Fittings/Gaskets L17-12
Dye Charge L17-19
Dyestercool™ Oil L17-19
Estercool™ Oil L17-17
R134a Oil Charge L17-18
Factory R134a System Ports L17-15
Fresh N' Kool L17-20
Garter Springs L17-12
Gaskets (Fiber & Metal) L17-3
In-Line Filter Universal L17-17
Insulation Tape L17-20
Leak Lock L17-18
Leak Stop L17-19-20
Measuring Cup L17-20
Odor Buster Auto Fogger™ L17-20
O-Rings L17-4-9
Interchange L17-10-11
Lubricant L17-18
Orifice Tubes L17-13-14
PAG Oil for R134a Systems . .L17-18-19
PAG Oil w/Dye L17-19
Permagum L17-20
Pigtails L17-15
Pilot Inserts & Kits L17-12
Pressure Cycling Switch L17-15
R134a Retrofit Parts L17-16
R134a Oil Charge L17-18
Relays/Switches L17-15
Schrader Service Port Caps L17-21
Schrader Valve Cores L17-21
Sealing Washers & Kits L17-11-12
Seals L17-9-15
Service Couplers L17-16
Service Port Adapters L17-16
Service Port Caps L17-15, 21
Service Ports L17-15
Slim Line Washers L17-3
Smart VOV, Orifice Valve L17-14
Springlock Repair Parts L17-12
Square Cut O-Rings L17-9
Super Seal L17-20
System Guard™ Kit L17-22
System Ports L17-15
Universal Fluorescent
Leak Detector Dye L17-19
Valve Cores & Kits L17-21
Valve Core Tools L17-21
Weight Graded PAG Oil L17-18

NOTES

PCV VALVES

It's easy to see why it pays to buy Our PCV Valves.

Steel body with extra heavy cup and metering orifice. Accurate. Durable.

Stainless steel spring annealed to maintain precision control.

Tempered steel 4-arm piston, manufactured to .001 inch accuracy.

Steel anti-flame washer to prevent backfire explosion in crankcase.

WHY ARE THEY USED?

To save gas, reduce pollution, and to protect engines.

WHY STOCK THEM?

High replacements (replace with each oil change or 5,000 miles) very profitable!

WHY BUY FROM US?

OUR PCV valves are fully approved to meet all Federal and State requirements. Unique self-cleaning vibration action for trouble-free operation and long life. Up-to-Date application and picture on every handy 6-pack. Full coverage with minimum inventory requirements.

STYLE IDENTIFICATION

1

2

3

4

5

IMPORTANT

THIS SECTION IS TO BE USED AS A GUIDE ONLY. APPLICATION MUST BE VERIFIED IN THE APPLICATION GUIDE PB47

CHRYSLER/DODGE/PLYMOUTH

PART NUMBER	POP CODE	STYLE NUMBER	DESCRIPTION
407418	A	4	2000-90 Chry./Dod./Ply. (6), 1996-93 Mitsubishi (6)

FORD

PART NUMBER	POP CODE	STYLE NUMBER	DESCRIPTION
40749	AA	3	2002-76 Ford/Lincoln/Mercury/Ford Truck (8)

GENERAL MOTORS

PART NUMBER	POP CODE	STYLE NUMBER	DDESCRIPTION
40722	A	1	2006-82 GM (8), 2008-96 GMC
40726	AA	2	1998-74 GM (8)
40729	AA	2	1996-78 GM, GMC (6)
40770	AA	1	2008-86 GM/GMC Trucks (6)

HONDA

PART NUMBER	POP CODE	STYLE NUMBER	DESCRIPTION
407401	B	5	2002-88 Honda (4), 2004-88 Toyota, Lexus (4, 6)

TOYOTA

PART NUMBER	POP CODE	STYLE NUMBER	DESCRIPTION
407401	B	5	2002-88 Geo/Honda/Isuzu/Toyota (4, 6)

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PCV VALVES/EMISSION CONTROL/OXYGEN SENSORS

PART NUMBER	A/C	CHAMP	CHRYSLER	FORD	FRAM	GM	SERVICE CHAMP	MOTOR CRAFT	PUROLATOR	I.D. #1	I.D. #2	OE IMPORT
40722	CV642C	PC74	--	D4AE-A	FV178	6484525	52245	EV-76	PV769	PA-57	AV-769	
	CV722C			D4AZ-A		6487530						
	CV746C			D4DE-A		6488041						
	CV769C			D4DZ-A		25040148						
	CV673C			D4FZ-A		25040151						
40726	CV772C	PC84	--	--	FV184	6487779	52208	EV-79	PV774	PA-72	AV-774	
	CV774C					25040144						
40729	CV789C	PC87	--	--	FV191	8995284	52218	EV-90	PV789	PA-88	AV-789	8-08995-2840
								EV-135				
40749	CV885C	PC194	--	D8ZE-A1A	FV198	25043864	54218	EV-98B	PV98B	PA-90	AV-98B	
				D9ZZ-A								
40770	CV892C	PC68	--	– –	FV299	25043843	52235	--	PV892	PA-191	AV-892	
407401	--	PC217	--	--	FV309	94343013	59241	--	PV1026	PA-232	--	12204-10020
												12204-11040
												17130-PK1-003
												17130-PR4-YO1
												8-94343-013-1
407418	--	PC236	MD139971	--	FV333	--	56208	--	PV1029	PA-257	--	

EGR VALVE CARBON FILTER GASKETS

Helps prevent rough idle, hesitation, surging and possible stalling, pinging, and malfunctioning indicator lamps (MIL) to be set.

- **Stop replacing expensive EGR valves when a low cost filter will do.**
- **EGR filters keep dirt and debris from entering the EVR and vacuum chamber.**
- **EGR valve is prone to carbon buildup, which causes pintle to stick.**
- **Filter gasket catches carbon before it enters EGR valve.**
- **Clogged or restricted filters restrict atmospheric air bleed causing improper valve function.**
- **Filter should be replaced every 5,000 to 10,000 miles.**
- **This problem solving filter gasket takes the place of the original equipment gasket.**
- **Corrects and repairs an original equipment problem.**
- **Screens are made from heat resistant stainless steel.**

*Refer to PB book PB71 - for specific applications.

FORD PFE/DPFE WITH BASKET - Part No. 321595

1997-84 Ford, Ford Truck, Lincoln, Mazda Truck, Mercury, Mercury Truck*

GM LINEAR - Part No. 321599

2002-1992 Buick, Cadillac, Chevrolet Cars & Trucks, GMC Truck, Oldsmobile Cars & Trucks, Pontiac Cars & Trucks, Saturn*

GM 3.8L LINEAR - Part No. 321598

2003-1994 Buick, Chevrolet Cars & Trucks, Oldsmobile Cars & Trucks, Pontiac Cars & Trucks*

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HOSE & CLAMPS

FUEL INJECTION HOSE

Designed for high pressure applications.

- **Meets or exceeds performance requirements of Chrysler MSEA235, General Motors GM6163M, Ford ESE M2D325A, American Motors AM 3055 and SAE J30R9.**
- **Minimum .030" thick Fluorel® (3M Trademark) lined hose is impervious to emission and fuel penetration.**
- **Hypalon outer tube and cover resists harsh underhood conditions.**
- **Burst strength exceeds 900 PSI.**
- **Can be used with virtually all fuels including gasoline, gasohol and diesel.**

PART NUMBER	HOSE I.D. INCHES	HOSE O.D. INCHES	PACKAGE QTY. FOOT PER ROLL
421120	1/4"	7/16"	10 or
	(6.3mm)	(11.5mm)	25
421121	5/16"	17/32"	10 or
	(8.0mm)	(13.5mm)	25
421122	3/8"	5/8"	10 or
	(10mm)	(15.5mm)	25

FOR DOMESTIC AND IMPORT FUEL INJECTED VEHICLES

Requires Special Lined Fuel Injection Hose Clamps Shown Here

TYPE "G" FUEL INJECTION HOSE CLAMPS

PART NUMBER	CLAMPING RANGE MINIMUM - MAXIMUM	HOSE I.D.	QTY
10244	5/16 - 13/32	5/32	12
	8mm - 10mm	4mm	
10245	3/8 - 15/32	7/32	12
	9.5mm - 12mm	5.6mm	
10297	7/16 - 1/2	1/4	12
	10.5mm - 13mm	6.3mm	
10246	15/32 - 9/16	9/32	12
	11.5mm - 14mm	7.2mm	
10298	1/2 - 19/32	5/16	12
	12.5mm - 15mm	8mm	
10299	17/32 - 5/8	3/8	12
	13.5mm - 16mm	9.6mm	

- **Full 360° liner - unbroken inner band.**
- **Required for fuel injection hoses.**
- **Rounded edges, with hex slotted screw head.**
- **Plated.**

Part No. 10300
36 pieces • 6 items
12032 plastic tray

10244	**10246**	**10298**
10245	**10297**	**10299**

Numbers in assortment

FUEL, EMISSION, PCV, VACUUM & WIPER HOSE

- **Hypalon outer cover - for temperatures up to 275°F.**
- **Nitrile inner tube fuel line - resists alcohol, ethanol, methanol and most other gasoline additives.**
- **Heavy synthetic reinforcement - rated up to 250 PSI burst pressure.**
- **Heavy wall vacuum hose - kink resistant, heat resistant, will not collapse.**

HYPALON FUEL LINE HOSE

PART NO. 25' SPOOLS		I.D. INCHES	O.D. INCHES	FITS CONN. INCHES	FITS CONN. MM
10903	C	3/16	11/32	3/16	5
10905	C	1/4	1/2	1/4	6, 7
10906	A C	5/16	9/16	5/16	8
10907	A C	3/8	5/8	3/8	9, 10
10920	A C	7/16	11/16	7/16	11

EPDM UNIVERSAL VACUUM & WIPER HOSE

PART NO. 50' SPOOLS		PART NO. 100" ROLL BOXED	I.D. INCHES	FITS CONN. INCHES	FITS CONN. MM
11413	C	11414	7/64	1/8	3
11415	A C	11416	5/32	3/16	4
11417	A C	11418	7/32	1/4	5, 6
11419	A C	11420	9/32	5/16	7

HYPALON PCV & EMISSION HOSE

PART NO. 25' ROLL BOXED	I.D. INCHES	O.D. INCHES	FITS CONN. INCHES	FITS CONN. MM
10918	11/32	5/8	3/8	9
10919	15/32	3/4	1/2	12

A **Contained in asst. 10900** C **Contained in asst. 10950**

MASTER ASSORTMENT

Includes 9 rolls in 9 sizes
Part No. 10950

Includes rack - **Part No. 12057**

Racks mount on wall or counter.

CONFORMS TO SAE J30R7 SPECIFICATIONS

STARTER ASSORTMENT

Includes 6 rolls in 6 sizes
Part No. 10900

Includes rack - **Part No. 12010**

FUEL LINE HOSE IS NOT FOR FUEL INJECTION SYSTEMS

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VACUUM HOSE FITTINGS

RUBBER CONNECTORS

PART NUMBER	I.D. - INCHES A	B
321550	7/64	1/8
321552	5/32	1/8

PART NUMBER	I.D. - INCHES A	B
321556	1/8	3/16

UNIVERSAL TEE

PART NUMBER	TUBING SIZE INCHES	QTY
11504	1/8 thru 3/8	12

5-WAY HOSE TEE

PART NUMBER	INCHES	QTY
11522	3/16	12

HOSE TEES

PART NUMBER	INCHES	QTY
11517	1/8	25
11512	5/32	25
11513	3/16	25
11514	1/4	25
11515	5/16	25
11516	3/8	25

"Y" HOSE CONNECTORS

PART NUMBER	INCHES	QTY
11531	3/16	25
11524	1/4	25

HOSE ELBOWS

PART NUMBER	INCHES	QTY
11534	3/16	25
11535	1/4	25

"F" HOSE ELBOWS

PART NUMBER	INCHES	QTY
11537	3/16	25

RUBBER ELBOWS

PART NUMBER	I.D. - INCHES A	B
321560	1/8	11/64

PART NUMBER	I.D. - INCHES A	B
321559	1/8	1/8
321558	5/32	1/8

HARD PLASTIC ELBOWS

Single Male to Single Female

PART NUMBER	O.D. - IN. A	I.D. - IN. B
321562	3/16	5/32

HOSE CONNECTORS

PART NUMBER	INCHES	QTY
11505	1/8	25
11506	3/16	25
11507	1/4	25
11508	5/16	25
11509	3/8	25

CRANKCASE VENTILATION HOSE TEES

Ford Motor Co. Products
General Motors Products

PART NUMBER	INCHES A	B	C	OEM	QTY
11523	3/8	1/4	3/8	3970076	25
11538	3/8	3/8	1/4	GM-547826	25

REDUCING HOSE CONNECTORS

PART NUMBER	INCHES A	B	QTY
11533	1/8	3/16	25
11510	3/16	1/4	25
11511	1/4	3/8	25

UNIVERSAL CONNECTOR

PART NUMBER	TUBING SIZE INCHES	QTY
11503	1/8 thru 3/8	12

Note: 4mm is slightly larger than 5/32", .150 is slightly smaller than 5/32" / Also Note: All emission harness hoses & fittings are packed 5 to a box.

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VACUUM HOSE FITTINGS & UNIVERSAL CARDED SPRINGS

VACUUM LINE CAPS

PART NUMBER	SIZE INCHES	LENGTH	OEM NUMBER	QTY
315112	1/8	5/8	---	25
315101	3/16	5/8	380614S	50
315145	3/16	1-3/8	C9AZ-9C492C	25
315102	1/4	11/16	380613S	50
315146	1/4	1-3/8	C9AZ-9C492B	25
315113	5/16	1-3/8	C9AZ-0C492B	12
315114	3/8	1-1/2	C9AZ-9C492A	12

- **Universal application.**
- **Heat resistant rubber compound.**

Part No. 315100
56 pieces • 7 items
12028 plastic tray

315101 315112 315114 315146
315102 315113 315145

Numbers in assortment

HOSE FITTINGS AND VACUUM CAPS

- **Provides almost 100% coverage of all makes and models.**

Part No. 501301L
272 pieces • 24 items • 12017 steel tray

11505	11510	11515	11531	315102
11506	11511	11516	11534	315112
11507	11512	11522	11535	315113
11508	11513	11523	11537	315114
11509	11514	11524	315101	

1/2 QUANTITY AVAILABLE ORDER NO. 501301M
Numbers in assortment

HOSE FITTINGS

Part No. 11502
114 pieces • 12 items
12038 plastic tray

11505	11508	11511	11514
11506	11509	11512	11515
11507	11510	11513	11516

Numbers in assortment

HEAVY DUTY RETURN SPRINGS

Part No. 321013

20 SPRINGS - 1 SIZE
8-1/2" overall length • 2" coil length
7/16" coil diameter • 3/64" wire diameter

PEDAL RETURN SPRINGS

Universal applications

Part No. 321016

16 SPRINGS - 1 SIZE
17-1/2" overall length • 3-1/2" coil length
3/4" coil diameter • 3/32" wire diameter

ASSORTED PEDAL RETURN SPRINGS

For clutches, brakes and accelerators

Part No. 321009

16 SPRINGS - 2 SIZE
17-1/2" overall length - Cut to fit
8 Springs - 1-7/8" coil length
3/16" coil diameter • 1/8" wire diameter

8 Springs - 3-1/2" coil length
3/4" coil diameter • 3/32" wire diameter

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FUEL FILTERS

UNIVERSAL

5/16" in-line **Pop. Rating: A**

All metal construction OEM
Domestic and Import applications.
Includes 2 hoses and 4 clamps
Fram: G-12, Purolator: F20011
S/C: 50052

Part No. 324402 (12)

5/16" in-line **Pop. Rating: A**

See-through nylon construction.
Domestic and Import applications.
Includes 2 hoses and 4 clamps.
Fram: G-2, Purolator: GF-11

Part No. 324404 (12)

3/8" in-line **Pop. Rating: B**

See-through nylon construction.
Domestic and Import applications.
Fram: G-15, Purolator: F21111
S/C: 50050

Part No. 324403

One filter fits both 6mm and 8mm fuel hose. **Pop. Rating: A**

All years/models Audi, Colt, Courier, Fiat, Honda, Opel, Porsche, Renault, Saab, Volkswagen and many others.
Fram: G-4164, Purolator: F21124

Part No. 324420 (12)

GENERAL MOTORS

metric thread inlet & outlet, 16mm x 1.50 pitch **Pop. Rating: AA**

2008-82 General Motors Prod.
2000-93 Isuzu
2008-91 Jaguar
2004-91 Rover
100% Stainless Steel
For F.I. systems / mounted near fuel tank.
Fram: G-3727, AC: GF-481,
Purolator: F33144, S/C: 52066

(Rpl. O-Ring: 324525)

Part No. 324445 6 **Import No. GF481** (6)

3/8" inlet & outlet **Pop. Rating: B**

2007-00 GM & Various Saturn Products
1996-91 Buick 3.8L 5.7L (various)
1996-91 Cadillac 4.6L, 4.9L, 5.7L (various)
1996-94 Chevrolet Caprice 4.3L, 5.7L
2005-91 Chev., GMC Trucks 4.3L, 5.0L, 5.7L
1993-91 Olds. 3.8L, 5.0L, 5.7L (various)
1993-92 Pontiac Bonneville 3.8L
Fram: G-7333, Purolator: F64702, AC: GF-624, S/C: 52075

Part No. 324521

M16 x 1.5 outlet x 3/8" inlet tube **Pop. Rating: AA**

2007-92 Regal, Cavalier, Lumina, Cutlass Supreme, Grand Prix V6 3.1L, 3.4L
2005-92 Skylark, Achieva, Grand Am 4 cyl. 2.3L, 2.4L, V6 3.3L, 3.4L
2005-92 4 cyl. Cavalier 2.2L, Lumina 2.5L
Fram: G-7315, Purolator: F-54714
AC: GF-578, S/C: 52073

Part No. 324471 **Import No. GF578** (6)

Pop. Rating: B

2006-97 Various Chev., GMC, Oldsmobile & Isuzu Trucks various 4 cyl., 6cyl. & 8 cyl.
Fram: G8219, Purolator: F55215
S/C: 52085

Part No. 324542

3/8" tube inlet & outlet **Pop. Rating: B**

1995-90 GM cars V8 5.0L, 5.7L
1996-90 GM APV minivan V6 3.1L, 3.8L
Fram: G-6507, Purolator: F54686
AC: GF-582, S/C: 52076

Part No. 324472

3/8" tube inlet & 3/8" quick disconnect outlet **Pop. Rating: A**

2005-97 GM/GMC Trucks V6-3.4L
Fram: G7740, Purolator: F55412
AC: GF-794, GF-819, GF-820
S/C: 52087

Part No. 324553

3/8" inlet & outlet **Pop. Rating: B**

2005-91 GM Full Size Cars/Trucks V6 3.8L (Buick, Cadillac, Oldsmobile, Pontiac, Chevrolet & GMC Trucks)
2006-99 Various Saturn Products
Fram: G-7333, Purolator: F64702
AC: GF-580, S/C: 52075

Part No. 324481

Pop. Rating: B

2008-01 Chev. - GMC Trucks w/ 6.6L Duramax Diesel
Fram: PS9059A, Purolater: F55464
AC: TP1298B, S/C: LFF8736

Part No. 324577

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FUEL FILTERS

FORD / LINCOLN / MERCURY

5/16'' inlet and outlet

Pop. Rating: AA

2008-83 Various Ford, Lincoln, Mercury FI 1.9L, 2.5L, 3.0L, 3.8L, 5.0L, (4, 6, 8 cyl.)

Includes 2 fuel filter clips.

Fram: G-3802A, Purolator: F63169
Motorcraft: FG-800, S/C: 54062

Part No. 324443 (12)

Import No. FG800 (6)

—RETAINING CLIPS—

Fits 324443

324499 12

3/8" tube inlet, 5/16" tube inlet
5/16" tube vapor

Pop. Rating: B

2002-00 Ford Ranger 4-2.3L, 2.5L V6-3.0L, 4.0L
2005-01 Mazda Truck 4-2.3L, 2.5L V6-3.0L, 4.0L

Fram: G8757, Motorcraft: FD-1033
S/C: FG1071

Part No. 324561

Pop. Rating: A

1991-89 Ford Cars 6 cyl. 3.8L
2002-97 Ford Cars 4 cyl. 2.0L

Includes Fuel Filter Clips

Fram: G-7092, Purolator: F-64621
S/C: 54061

Part No. 324465

—RETAINING CLIPS—

Fits 324443

324499 12

3/8" tube inlet, 5/16" tube inlet

Pop. Rating: B

2002-99 Ford/Mercury Trucks V6-4.0L, 3.0L
2002-99 Mazda Trucks V6-3.0L

Fram: G9910, Purolator: F65364
Motorcraft: FG-991, S/C: FG991

Part No. 324563

Pop. Rating: AA

2005-91 Ford Trucks & Vans
V6 4.0L, 2.9L (1992 only)
6 cyl. 4.9L
V8 5.0L, 5.8L, 7.5L
1996-91 Mazda Trucks

Fram: G-3850, Purolator: F-64711
Motorcraft: FG-872, S/C: 54066

Part No. 324473 **Import No. FG872** (6)

3/8" tube inlet, 3/8" tube inlet

Pop. Rating: B

2008-03 Ford Explorer, Mustang, Thunderbird V6-4.0L, V8-3.9L, V8-4.6L
2008-03 Various Lincoln Products

Purolator: F65481, Motorcraft: FG-1011
S/C: FG1011

Part No. 324564

8mm inlet and outlet

Pop. Rating: B

2008-00 Ford Focus 4 cyl.
2008-99 Ford Windstar V6 3.0L, 3.8L
Ford Crown Victoria V8 4.6L
Ford Mustang V6 3.8L, V8 4.6L
2008-00 Jaguar S-Type V6 3.0L, V8 4.0L
2008-99 Various Lincoln Models 6 & 8 cyl.

Fram: G8018, Purolator: F65277
S/C: 54073, Motorcraft: FG986B
OE: F89Z-9155A

Part No. 324552

2 pc. kit

Pop. Rating: B

2007-03 Ford Excursion, Super Duty P/U V8-6.0L Turbo Diesel

Wix: 33599, Motorcraft: FD-4604
S/C: FD4604

Part No. 324565

Pop. Rating: A

2003-98 Ford Light Duty Trucks V8-7.3L Turbo Diesel

Fram: CS8629, Purolator: F59292
Motorcraft: FD-4596, S/C: 54074

Part No. 324560

Part No. 324560WC - Filter w/Cap

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FUEL FILTERS & INTERCHANGE

CHRYSLER / DODGE / JEEP

Pop. Rating: B

2008-00 Dodge Truck
6 cyl.-5.9L Turbo Diesel

Fram: CS8941, Purolator: F55360
S/C: 56077

Part No. 324555

Pop. Rating: C

1999-97 Dodge Truck
6 cyl.-5.9L Turbo Diesel

Fram: CS8323, Purolator: F59201
S/C: 56072

Part No. 324558

IMPORTS

One filter fits both 6mm and 8mm fuel hose.

Typical 6mm use.

Typical 8mm use.

Pop. Rating: B

All years/models
Audi, Colt, Courier, Fiat, Honda, Opel, Porsche, Renault, Saab, Volkswagen and many others.

Fram: G4164, Purolator: F21124

Part No. 324420 (12)

14mm x 1.5 inlet, 12mm x 1.25 outlet

Pop. Rating: A

2004-94 Honda, Acura
Various 4, 6 cyl.

Fram: G7599, Purolator: F44870
S/C: 59136
OE: 16010-ST5-931, -A31, A32

Part No. 324524

INTERCHANGE

PART NUMBER	OEM	AC	SERVICE CHAMP	FRAM	HASTINGS	MOPAR	MOTORCRAFT	NAPA	PUROLATOR	WIX
324402	Univ. 5/16 M	GF-94	50052	G-12	GF-10	L-202	FG-2	3032	F20011	33032
		—	—	—	—	L-606	GF-11-8	—	—	—
324403	Univ. 3/8 P	GF-61P	50050	G-15	GF-11	L-203	FG-8	3033	F21111	33033
324404	Univ. 5/16 P	GF-61	50054	G-2	GF-73	L-600	FG-2	3012	GF-11	33012
324420	Univ. 6/8 mm	GF-505	—	G4164	GF-95	L-603	—	3030	F21124	33030
	803-201-511C	G-4164	—	—	—	—	—	—	—	—
324443	E3FZ-9155C	GF-510	54062	G-3802A	GF-115	—	FG-800A	3097	F63169	33097
324445	25055046	—	—	—	—	—	—	—	—	—
	25055052	GF-481	52066	G-3727	GF-111	—	—	3063	F33144	33063
324465	E95Z-9155-A	—	54061	G-7092	GF-231	—	FG-862	3293	F64621	33293
324471	25121293	GF-578	52073	G-7315	GF-258	—	—	3311	F-54714	33311
324472	10091780	GF-582	52076	G-6507	—	—	—	—	F-54686	—
	10093250	—	—	—	—	—	—	—	—	—
	10119577	—	—	—	—	—	—	—	—	—
	25121713	—	—	—	—	—	—	—	—	—
324473	FOTE-9155AA	—	54066	G-3850	GF-247	—	FG-872	3296	F64711	33296
	ZZLO-13-470	—	—	—	—	—	—	—	—	—
324481	25121351	GF-580	52075	G-7333	GF-246	—	—	3484	F64702	33484
324521	25121801	GF-624	52075	G-7333	—	—	—	—	—	—
324524	16010-S01-A01	GF735	59136	G7599	GF-284	—	—	—	F44870	33559
	16010-ST5-930	—	—	—	—	—	—	—	—	—
324542	25168251	GF645	52085	G8219	—	—	—	—	F55215	—
324552	F89Z-9155A	—	54073	G8018	—	—	FG986B	—	F65277	33595
324553	25179824	GF-819	52087	G7740	GF340			3529	F55412	33183
324555	5015581AB	GF-861	56077	CS8941	FF1093			3585	F55360	33585
324558	4883963AC		56072	CS8323	FF1126			3349	F59201	33349
324560	F81Z-9N184-AA	GF-862	54074	CS8629	FF1094		FD-4596	3518	F59292	33518
324561	YL5Z-9155-AD		FG1071	G8757	GF351		FD-1033			
324563	XL5E-9155-AB		FG991	G9910	GF331		FG-991		F65364	33233
324564	2C5Z-9155-AA		FG1011		GF354		FG-1011		F65481	33243
324565	3C3Z-9N184-CA		FD4604		FF1145		FD-4604	3599		33599
324577	97385488	TP1298B	LFF8736	PS9059A	FF1220	—	—	3910	F55464	33910

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FUEL FILTER CLIPS, QUICK DISCONNECTS and GASKETS

FORD

FUEL FILTER CLIP
fits 1/4" fuel line

"DUCK BILL TYPE"
Clear Plastic (Natural Color)
Replaces: N802710-S190

Part No. 324497 12

FUEL FILTER CLIP
fits 3/8" fuel line

Black Plastic
Replaces: N802241-S

1980-On Ford

NOTE: Should be replaced whenever a connector is removed.

Part No. 324498 12

FUEL FILTER CLIP
fits 5/16" fuel line

Clear Plastic (Natural Color)
Replaces: N802239-S

1980-On Ford

NOTE: Should be replaced whenever a connector is removed.

Part No. 324499 12

FUEL LINE RETAINER CLIP
Ford Taurus & Mercury Sable
6 cyl. 3.0L w/Fuel Injection 2002/on

Fits 5/16" fuel line - Natural Nylon
Replaces: 2F1Z-9A317-AA

Part No. 324575 12

Fits 3/8" fuel line - Black Nylon
Replaces: 2F1Z-9A317-BA

Part No. 324576 12

FORD METAL RETAINERS

SIZE	PART NUMBER
10.5mm	324532
13mm	324533

ASSORTMENT AVAILABLE

Part No. 324002
88 pieces • 10 items
12038 plastic tray

324497	324525	324528	324533
324498	324526	324529	
324499	324527	324532	

Numbers in assortment

GM

FUEL HOSE RETAINER
Clear Plastic (Natural Color)
1989-On GM
For coupler at fuel filter and other locations on molded fuel lines.

Part No. 324528 10
fits 5/16" fuel line
Replaces: 15638098

Part No. 324529 10
fits 3/8" fuel line
Replaces: 15638097

GM FUEL INJECTION LINE O-RING

- **Made from 75-D Viton.**
- **Viton is impervious to fuel.**
- **Used with our filter 324445, Fram: G-3727, AC: GF-481 Purolator: F33144, OEM: GM22514722**

Part No. 324525 10

FUEL LINE RETAINER CLIP
Fits GMC 5.3L 2004-02
Use with A/C Delco fuel filter #GF847

Fits 5/16" steel connector

Part No. 324325 6

Fits 3/8" steel connector

Part No. 324326 6

GM & CHRYSLER

- **5/16 steel body fuel connector.**
- **Sending unit / filter.**
- **Attached hose for most Chrysler applications.**

Part No. 508885

CHRYSLER

FUEL FILTER CLIP
Black Plastic
Chrysler: various models

Part No. 324526 5
fits 5/16" fuel line

Part No. 324527 5
fits 3/8" fuel line

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FUEL LINE REPAIR

Seized or twisted fuel lines? Need to repair rusted and leaking fuel lines quickly and economically?

★ TRY THESE INNOVATIVE PROBLEM SOLVERS ★

Choose from

STEEL FUEL LINE REPAIR

- **Covers General Motors, Ford and Chrysler.**
- **Repairs rusted and leaking steel fuel lines.**
- **OEM style flare with viton O-ring (brown).**
- **Repairs for both pressure and return lines available.**

NYLON FUEL LINE REPAIR

- **Repairs nylon section of fuel system component.**
- **Easily attaches to existing O.E. nylon fuel line connectors.**
- **Completely assembled ready for installation.**

STEEL FUEL LINE REPAIR

- **Covers General Motors, Ford and Chrysler.**
- **Repairs rusted and leaking steel fuel lines.**
- **OEM style flare with viton O-ring (brown).**
- **Repairs for both pressure and return lines available.**

– GM STYLE – THREADED FITTING

One end threads into the fuel filter, the other end flared to fit into rubber fuel hose (seal with clamp).

- **For GM vehicles 1997-84 using fuel filter GF481 (324445).**
- **Three different lengths allow the installer to make an economical repair, regardless of the length of rusted/damaged line.**

DIAMETER INCHES	LENGTH INCHES	FITTING	PART NUMBER
3/8	9	16mm	**3062 (324530)**
3/8	18	16mm	**3060**
3/8	36	16mm	**3064**

Repairs the 3/8" diameter fuel lines found on the pressure side (fuel that is being pumped to the injectors from the gas tank).

DIAMETER INCHES	LENGTH INCHES	FITTING	PART NUMBER
5/16	9	14mm	**3063 (324531)**
5/16	18	14mm	**3061**

Repairs the 5/16" diameter fuel lines found on the return side (fuel that is being returned from the injectors to the gas tank).

– FORD / GM STYLE – QUICK CONNECT FITTING

Connects to nylon fuel line by locking into the end connector.

- **All sizes fit the return side at the sending unit.**
- **Fits Ford cars including Crown Victoria, Grand Marquis, Sable, Taurus, Topaz, Tempo.**
- **Fits various GM and Chrysler cars since 1990.**

DIAMETER INCHES	LENGTH INCHES	PART NUMBER
5/16	12	**3067**
3/8	12	**3066**

NYLON FUEL LINE REPAIR

- **Repairs nylon section of fuel system component.**
- **Easily attaches to existing O.E. nylon fuel line connectors.**
- **Completely assembled, ready for installation.**

5/16" CONNECTOR SIZE

- **Repairs fuel lines at the fuel tank fuel sending unit (vehicles with rear mounted fuel filters).**
- **Also repairs nylon lines from fuel filter to fuel rails (vehicles with engine compartment mounted fuel filters).**
- **Fits Ford cars including Taurus, Sable, Crown Victoria, Marquis, Thunderbird.**
- **Fits various GM vehicles using 8mm nylon fuel line at the fuel tank sending unit.**
- **Repairs vehicles using fuel filters FG-800 (324443), FG-862 (324465), FG-872 (324473).**

CONNECTOR SIZE	LENGTH INCHES	NYLON FUEL LINE SIZE	ANGLE	PART NUMBER
5/16	12	8mm	Straight	**3069K**

3/8" CONNECTOR SIZE

- **Repairs fuel lines at the fuel tank sending unit and at the filter.**

CONNECTOR SIZE	LENGTH INCHES	NYLON FUEL LINE SIZE	ANGLE	PART NUMBER
3/8	12	8mm	Straight	**3070K**

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FUEL LINE REPAIR

FUEL LINE REPLACEMENT KIT

★ Save Time & Money ★

- **COST-EFFECTIVE** - Save Up To 70% vs. OEM Fuel Lines.
- **EASY-TO-USE** - No Special Insertion Tools Required; Reduces Labor Time.
- **NUMEROUS APPLICATIONS** - Fits over 90% of domestic and foreign vehicles.
- **SAFE** - Nylon lines hold up to 200 PSI.

Replacement fuel lines use the latest, safest technology available; the same advanced technology used by new vehicle manufacturers.
— Thumb Release Convenience
— No Special Disconnect Tools Required
— Universal Quick Connects Fit GM, Chrysler & Ford

Part No. 324003

Easy Installation

Typical installations can be completed in less than 5 minutes.

It's as simple as 1, 2, 3!

REPLACEMENT PARTS For Part No. 324003

PART NUMBER	DESCRIPTION	QTY
SURK005*	5/16 Nylon Tubing	25'
SURK010**	3/8 Nylon Tubing	25'
SURKP020	3/8 Straight Push Quick Connect	2 pkg.
SURKP030	3/8-5/16 Straight Push Quick Connect	2 pkg.
SURKP040	5/16 Straight Push Quick Connect	2 pkg.
SURK050	5/16 Nylon to Steel Compression Fitting	2 pkg.
SURK057	5/16 Nylon to Nylon Push-on Union	2 pkg.
SURK060	3/8 Nylon to Steel Compression Fitting	2 pkg.
SURK067	3/8 Nylon to Nylon Push-on Union	2 pkg.
SURK070	5/16 GM Line Adapter	2 pkg.

PART NUMBER	DESCRIPTION	QTY
SURK075	3/8 GM Line Adapter	2 pkg.
SURK095	5/16 GM Female to Nylon Line Adapter	1 pkg.
SURK100	3/8 GM Female to Nylon Line Adapter	1 pkg.
SURKP125	3/8 90 Deg. Push Quick Connect	2 pkg.
SURKP130	3/8-5/16 90 Deg. Push Quick Connect	2 pkg.
SURKP135	5/16 90 Deg. Push Quick Connect	2 pkg.
SURK2980	5/16 Seal Clamps	10 pkg.
SURK2982	3/8 Seal Clamps	10 pkg.
SURTC-1	Tubing Cutter	1 pkg.
SURCP01	Clamp Pliers	1 pkg.

OPTIONAL
*5/16 Nylon Tubing available in 50' rolls, order SURK00550.
**3/8 Nylon Tubing available in 50' rolls, order SURK01050.

FUEL LINE ACCESSORY KIT

- **Increases the versatility of our Part No. 324003 Fuel Line Replacement Kit.**
- **Eliminates difficult fuel line routing problems.**
- **No special insertion tools required.**
- **Quick connects make connections simple & secure.**
- **Typical installations in less than 5 minutes.**

Part No. 324004

REPLACEMENT PARTS For Part No. 324004

PART NUMBER	DESCRIPTION	QTY
SURK140	5/16 Nylon to Hose Connector	2 pkg.
SURK145	3/8 Nylon to Hose Connector	2 pkg.
SURK150	5/16 Quick Connect to Nylon Connector	2 pkg.
SURK155	3/8 Quick Connect to Nylon Connector	2 pkg.
SUR51690	5/16 90 Degree Elbow	2 pkg.
SUR3890	3/8 90 Degree Elbow	2 pkg.
SUR38180	3/8 180 Degree GM Fuel Filter Line Adapter	1 pkg.

PART NUMBER	DESCRIPTION	QTY
SURK2980	5/16 Seal Clamps	10 pkg.
SURK2982	3/8 Seal Clamps	10 pkg.
SURKP035	5/16-3/8 Straight Push Quick Connect	2 pkg.
SURKP120	5/16-3/8 90 Degree Push Quick Connect	2 pkg.
SURTH516	5/16 Nylon Tube Holder	20 pkg.
SURTH38	3/8 Nylon Tube Holder	20 pkg.
SUR14005*	Heat Shield Sleeve	1 (5' roll)

OPTIONAL
*Heat Shield Tape available in 15' lengths, order SURK14000.

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RADIATOR PRESSURE CAPS & TESTER

RADIATOR PRESSURE CAPS

REPLACES: Original Equipment Caps • Closed System Caps • Coolant Recovery Caps • Most Competitive Brand Caps

ROTO-LOCK™ SWIVEL

7 lbs.
SWIVEL STYLE
Part No. 126105

1990-55	Chev.Trucks	1995-85	John Deere
1994-52	Ford Trucks	1993-75	White Tractors
1995-65	Ford Tractors	1953-52	Willys Aero
1990-63	GMC Trucks		
1992-87	Isuzu (Medium & Heavy Trucks)		

13 lbs.
SWIVEL STYLE
Part No. 126106

LEVER STYLE
Part No. 126111

1998-71	Ford	1995-77	John Deere
1995-84	Jeep	1995-77	Kubota Tractors
1993-72	Mazda	1995-79	Massey Ferguson Tractors
1996-61	Ford Trucks		
1995-76	Ford Tractors	1995-87	White Tractors

16 lbs.
SWIVEL STYLE
Part No. 126107

LEVER STYLE
Part No. 126112

1991-71	Buick	2003-71	GMC
2000-85	Cadillac	1996-75	Jaguar
2003-71	Chevrolet	2006-02	Jeep
2006-93	Chrysler	1997-94	Mazda
2006-93	Dodge	2006-02	Mini
1997-75	Ford, Lincoln, Mercury	2001-95	Plymouth

SPECIAL APPLICATIONS

13 lbs.
SWIVEL STYLE
Part No. 12679

1993-90	Acura	2001-90	Lexus
1998-87	Chrysler	2002-85	Mazda
2000-84	Dodge	2002-87	Mercury
1997-88	Ford	2002-83	Mitsubishi
1991-88	Honda	2003-84	Nissan
2005-86	Hyundai	2002-83	Subaru
2006-90	Infiniti	2003-82	Toyota
2006-95	Kia		

13 lbs.
SWIVEL STYLE
Part No. 126113

2002-98	Chevrolet	2006-03	Pontiac
2001-92	Dodge	2006-03	Scion
2006-90	Lexus	2006	Subaru
2004-92	Mitsubishi	2006-90	Toyota

16 lbs.
SWIVEL STYLE
Part No. 126109

2001-00	AM General	1999-96	Isuzu
2006-76	Buick	2001-72	Jeep
2000-71	Cadillac	1992-86	Lincoln
2006-71	Chevrolet	1991-83	Mercury
2006-71	Chrysler	2004-71	Oldsmobile
2006-71	Dodge	2000-71	Plymouth
1995-86	Ford	2006-76	Pontiac
2005-77	GMC	2006-05	Saturn

16 lbs.
SWIVEL STYLE
Part No. 126114

2006-91	Acura	2006, 2000	Mazda
2004-98	Chevrolet		
2005-01	Chrysler	2006-01	Mitsubishi
2005-01	Dodge	2006-01	Subaru
2006-92	Honda	2006-89	Suzuki
2003-96	Isuzu	2003-92	Toyota
2006-98	Lexus		

16 lbs.
SWIVEL STYLE
Part No. 126117

2005-90	Acura	2004-85	Isuzu
1998-95	Chrysler	2006-01	Kia
1999-95	Dodge	2006-92	Lexus
1998-95	Eagle	2006-93	Mazda
2006-89	Ford	2001-89	Mercury
2005-90	Honda	2006-99	Subaru
2006-98	Hyundai	2006-94	Toyota
2001-97	Infiniti		

RADIATOR OVERFLOW TANK CAPS

Fits all General Motors cars and trucks 1992-73.

- **Replaces lost or damaged OE caps.**
- **Made of high impact, heat resistant plastic.**
- **Completely resistant to all cooling system chemicals.**
- **Replaces: GM-14011345**

Part No. 12645

RADIATOR PRESSURE CAP INTERCHANGE

PART NO.	NAPA	GATES	STANT	SERVICE CHAMP
12679	703-1443	31333	10227	10227
126105	703-1444	31526	10228	10228
126106	703-1445	31527	10229	10229
126107	703-1446	31528	10230	10230
126109	703-1447	31523	10231	10231

PART NO.	NAPA	GATES	STANT	SERVICE CHAMP
126111	703-1452	31511	10329	--
126112	703-1451	31518	10330	10330
126113	703-2471	31411	10241	10241
126114	703-2472	31412	10242	10242
126117	703-1406	31336	10233	10233

STANT RADIATOR TESTER

- **Now test up to 30 pound cooling systems and pressure caps.**
- **Lets you test today's cars higher pressure cooling systems and pressure caps up to 30 pounds.**
- **Cap testing pressure ranges of 17-19 lbs., and 28-30 lbs. Large color coded dial makes it easy to accurately test these higher pressure caps and systems.**
- **The head also includes a pressure release bar that when turned clockwise, releases pressure buildup before removing the head from the neck.**
- **Although this tester replaces the ST 255 (12255), all Stant pressure cap and cooling system adapters can be used on either tester. Stant even created a conversion kit, (270 1,12701) that allows you to convert your 255 (12255) to a ST270 (12270).**
- **Comes in it's own plastic carrying case with one 255 9 (12559) spacer to drop in 1" deep filler necks for testing, one 255 2 (12552) cap adapter to check 3/4" deep caps, and a complete easy to use instruction manual including cooling system and pressure cap testing Instructions as well as usage instructions and applications for all Stant adapters.**

Part No. ST270*

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OIL FILLER and FUEL CAPS / MISC. LUBE SHOP ITEMS

OIL FILLER CAPS

For complete application info. on oil filler caps, please refer to *Parts Booklet #89*

pop. rating: A

OE Style

1996-71 Chevrolet
1996-71 GMC
1995-90 Oldsmobile
1995-85 Pontiac

Stant: 10072

Part No. 12674 6

pop. rating: A

2006-85 Ford
1999-86 Lincoln
2000-91 Mercury

Stant: 10100

Part No. 12689

pop. rating: A

2006-93 Chrysler
2006-93 Dodge
1998-93 Eagle
2004-94 Jeep
2006-02 Mini
2001-94 Plymouth

Stant: 10111

Part No. 12694

pop. rating: A

2006-98 Chrysler, Dodge
2006-85 Various GM Vehicles
2006-92 GMC
2006-00 Hyundai
2006-97 Isuzu
2006 Mitsubishi
2000-91 Saturn

Part No. 12688

Stant: 10099

pop. rating: A

2000-99 Cadillac
1996-90 Cadillac
2002-88 Chevrolet
2000-89 GMC
2002-96 Oldsmobile
2002-89 Pontiac

Stant: 10105

Part No. 12691

pop. rating: A

2006-00 Ford
2005-01 Lincoln
2006-01 Mazda
2006-01 Mercury

Stant: 10117

Part No. 12699

FUEL CAPS

pop. rating: A

1999-80 Dodge/Chrysler
2006-82 Ford
2006-75 GM
2006-83 Various Imports

Stant: 10817

Part No. 126817

pop. rating: A

2004-96 Ford
2006-00 Jaguar
2004-96 Lincoln
2004-97 Mazda
2004-96 Mercury

Stant: 10832

Part No. 126832

pop. rating: A

2006-00 Chevrolet
2006-00 GMC

All NEW Yellow Flex Fuel Cap

Part No. 126841

FUEL CAP REFERENCE NUMBER/COMPETITIVE INTERCHANGE

PART NO.	STANT	NAPA
126817	10817	703-1231

PART NO.	STANT	NAPA
126832	10832	703-1632

PART NO.	STANT	NAPA
126841	--	--

• Now a required check for many states' emission testing programs • As many as 1 in 5 caps do not pass testing •
• Only a few numbers provide great coverage on this easy to replace, profitable item •
• Quality made in the U.S.A. • Up to date application guide •

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"QUICK LUBE" ASSORTMENTS

COMPLETE DRAIN PLUGS

- Complete coverage; domestics, imports, luxury cars.
- Drain plugs - OEM styles and oversize self tappers.
- Differential plugs.
- Standard gaskets included where required.

PARTS BOOKLET P858 SHIPPED WITH THIS ASSORTMENT

Part No. 323008
84 pieces • 32 items • 12062 steel tray

323157	323259	323417	323444	323527
323158	323268	323426	323506	323528
323159	323269	323427	323508	323535
323163	323271	323428	323509	323537
323192	323275	323432	323512	
323213	323276	323433	323517	
323214	323299	323441	323523	

Numbers in assortment

FAST MOVER DRAIN PLUGS and GASKETS

- Contains most popular domestic and import plugs.
- Excellent coverage on fast movers only.
- All OE style plugs.
- Color coded lidchart for easier identification.

PARTS BOOKLET P858 SHIPPED WITH THIS ASSORTMENT

Part No. 323015
525 pieces • 28 items • 12062 steel tray

10810	10891	323163	323199	323280
10820W	10893	323181W	323216	323281
10822W	10899	323191	323224	323282
10823	323157	323192	323271	323286
10824	323158	323193	323275	
10825	323159	323196	323276	

Numbers in assortment

A FANTASTIC ADDITION TO INCREASE ADD-ON SALES.

SUPPLEMENTAL DRAIN PLUG and GASKETS

- Contains all popular new additions only.
- Best way to update your coverage if you bought assortments before August 1998.
- Contains 12 new plugs (including gaskets where required) and 9 new gaskets.

PARTS BOOKLET P858 SHIPPED WITH THIS ASSORTMENT

Part No. 501613
84 pieces • 21 items • 12017 steel tray

323164	323268	323293	323429	323517
323197	323269	323296	323431	
323216	323286	323426	323432	
323258	323291	323427	323445	
323259	323292	323428	323507	

Numbers in assortment

OVERSIZE DRAIN PLUGS

- Contains only 1/2" & metric oversize drain plugs.
- For domestic & import vehicles.
- Lusterplated to resist rust.
- Gaskets supplied.

Part No. 323016
36 pieces • 6 items • 12047 plastic tray

10811	323277	323289
10812	323288	323290

Numbers in assortment

METRIC/FRACTIONAL DRAIN PLUGS

- Contains most popular metric & fractional sizes.
- Standard, guide point, big head and M14 "short" style drain plugs are included.
- Lusterplated to resist rust.
- Supplied with gaskets.

Part No. 323004
41 pieces • 12 items • 12038 plastic tray

10810	323158	323191	323271
10899	323159	323192	323275
323157	323163	323193	323276

Numbers in assortment

L14

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OIL DRAIN PLUGS w/GASKETS (FRACTIONAL SIZES)

1/2"
3/4" Hex

Standard

Part No. 10810 (100)

1/2"
7/8" Hex

Extra Long
w/Guide Point
for fast easy threading
7/8" Hex Head

Part No. 10899 (100)

1/2"
7/8" Hex

7/8" Hex Head
No Guide Point

Part No. 323164 (50)

1/2"
5/8" Hex

Special rubber
gasket molded
onto drain plug

2006-90 Jeep Cherokee
1994-92 Chry. "Cab Fwd."

Part No. 323268 (25)

1/2"
9/16" Hex

OEM Style
washer head
for recessed drain holes
w/Guide Point

Part No. 323275 (100)

1/2"
3/4" Hex

Oversize

Part No. 10811 (50)

1/2"

Oversize

Part No. 10819 (50)

1/2"
3/4" Hex

Double
Oversize

Part No. 10812 (50)

1/2"
3/4" Hex

Triple Oversize

Part No. 323277 (25)

5/8"
13mm Hex

Standard

Part No. 323430 (12)

5/8"
7/8" Hex

Oversize

Part No. 10814 (25)

"ONE TIME" REPLACEMENT DRAIN PLUGS

Prevents oil pan damage from stripped threads. Install "ONE TIME" plug and just remove center plug on next oil change.

Removable Center Plug
Has Tapered Thread

1/2"
Standard Threads

Stop trouble before it
occurs on troublesome
Fords.

Part No. 323279 (12)

Removable Center Plug
Has Tapered Thread

Self-Tapping
Hardened Threads

**Oversize Threads
for Stripped Pans**

PART NUMBER	SIZE (INCHES)	QTY
10806	1/2 oversize	5
10807	1/2 double oversize	5

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OIL DRAIN PLUGS (METRIC SIZES)

13mm Hex

10mm x 1.50
OE Style

OEM:
Ford F81Z-6730-AA

2005-04 E-350 & E450 Econoline V8 6.0L (P) Turbo Diesel

Includes special molded rubber gasket on plug.

Part No. 323537 (6)

14mm Hex

12mm x 1.25

OE Style, Nissan

Yellow Dichromate plated

Part No. 323432 (25)

14mm Hex

12mm x 1.25

Dog Point
Nissan, Toyota

Part No. 323433 (25)

14mm Hex

12mm x 1.25

Nissan, Chevrolet
Nova, Toyota

Part No. 323157 (50)

19mm Hex

12mm x 1.25

Oversized
Self Tapping
Nissan, Chevrolet

Part No. 323288 (25)

3/4" Hex

12mm x 1.50

Oversized

Part No. 323536 (25)

13mm Hex

12mm x 1.50

Mercedes-Benz
Replaces:
123-997-04-30

Part No. 323211 (12)

11/16" Hex

12mm x 1.50

BMW
Replaces:
11-13-273-093

Part No. 323214 (6)

12mm x 1.75
OE Style

13mm Hex

OEM:
GM 11519408
Isuzu 8-11519-4-8-0

2006-05 Various GM Cars & Trucks 3.1, 3.4, 3.6, 3.8, 4.2, 4.6, 5.3, 6.0

2005 Isuzu Ascender 4.2L, 5.3L

Includes special rubber insert gasket.

Part No. 323535 (12)

12mm x 1.75

OE Style, GM, AMC

15mm Hex

Part No. 323158 (50)

14mm Hex

12mm x 1.75

Saturn

Includes special neoprene gasket. (also available separately #323296)

NOTE: Saturn recommends replacing earlier style drain plug with this new style.

Part No. 323259 (25)

13mm Hex

12mm x 1.75
OE Style

OEM: Ford YS4Z-6730-AA

Replaces: 323425

2006-95 Various Ford & Mercury Cars & Trucks

Includes special rubber insert gasket. Part No. 323519

Part No. 323517 (25)

12mm x 1.75
OE Style

15mm Hex

2006-92 Various GM Products

Includes special rubber insert gasket. (Part No. 323429)

Part No. 323427 (25)

12mm x 1.75
OE Style

15mm Hex

GM
1995-85 4.9
#3538469

Includes special rubber insert gasket. (Part No. 323429)

Part No. 323428 (25)

19mm Hex

12mm x 1.75

Oversized
Self Tapping
GM

Part No. 323289 (25)

L14

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OIL DRAIN PLUGS w/GASKETS (METRIC SIZES)

15mm Hex

12mm x 1.75
28.5mm under head length

2006-99 Various Model Ford, Lincoln, Mercury Cars & Trucks

Rubber Molded around washer face.

Part No. 323526 (6)

15mm Hex

12mm x 1.75
OE Style

Magnetic

2006-96 GM Cars & SUV's
2000-Up GM Diesels 1500, 2500, 3500

Replaces:
2400042 & 88-891787

Includes special rubber insert gasket. (Part No. 323429)

Part No. 323512 (12)

15mm Hex

12mm x 1.75
OE Style

Includes special blue rubber insert gasket Part No. 323539

OE STYLE:
GM 11562588

Part No. 323538 (25)

19mm Hex

14mm x 1.25

Fits: Jeep Cherokee, CJ-7 etc.
1990-87 4 & 6 cyl. (258 engine)
1986-84 Various Models

OEM: 83501425

Part No. 323216 (25)

13mm Hex

14mm x 1.25

Jeep
Replaces:
83501425

Part No. 323505 (25)

14mm x 1.25

Ford Power Stroke
2006-94 E350 7.3L Turbo Diesel
2006-94 F250, F350 7.3L Turbo Diesel

OEM:
F6TZ-673-0AA

19mm Hex

Includes special copper gasket #323284

Part No. 323417 (25)

13mm Hex

14mm x 1.50

Regular Point
OEM:
Ford-E0FZ-67034
GM-3456849

Includes gasket #10893

Part No. 323159 (100)

17mm Hex

14mm x 1.50
Short (10mm)

OEM: Honda
90009-PH1-000

Especially for Imports with limited clearance between pan & pump shield.

Part No. 323163 (100)

17mm Hex

14mm x 1.50
Long (15mm)

OEM: Honda
90009-PY3-000

2006-98 Accord 6 cyl. 3.0L
2006-96 Civic 4 cyl. 1.6, 1.7L
2006-99 Odyssey 6 cyl. 3.5L
2006-96 Prelude 4 cyl. 2.2L
2006-00 S2000 4 cyl. 2.0L

Includes special OE soft aluminum gasket (323224)

Part No. 323523 (50)

13mm Hex

14mm x 1.50

Mercedes-Benz
Replaces:
601-997-02-30

Part No. 323213 (6)

19mm Hex

14mm x 1.50

Includes copper gasket. (Part No. 323284).
V.W. Jetta

Part No. 323258 (25)

16mm Hex

14mm x 1.50
w/Guide Point

OEM: E5AZ-6730A

Part No. 323276 (100)

17mm Hex

14mm x 1.50

OEM: #6503433
Chrysler 2.0L
Mitsubishi, Laser, Eclipse

Special molded rubber gasket on plug.

Part No. 323426 (25)

19mm Hex

14mm x 1.50

Oversized
Honda, ETC

NOT RECOMMENDED for use on Ford Products.

Part No. 323290 (25)

14mm x 1.50

Magnetic

Part No. 323297 (6)

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OIL DRAIN PLUG w/GASKETS (METRIC SIZES)

14mm x 1.50

Cadillac Catera
1998-97 3.0L
OE#90502556

2005-03 CTS 3.2L, 3.6, 5.7
2005-00 Saturn L300 3.0, 3.5
2005-02 Saturn Vue 3.0, 3.5
2005 STS 3.6L, 4.6L

Includes special rubber "O" ring gasket #323507

Part No. 323506 3

14mm x 1.50

Volkswagen
OEM: N90813201

Includes integral Sems washer

Fits most models & engine sizes from late 90's thru 2006

Part No. 323527 (12)

14mm x 1.50

Chrysler
OEM: 6507741AA

Replaces:
323446, 323518

Includes special rubber insert gasket (323529)

Fits most Dodge & Chrysler Models 2006-2000 w/4 & 6 cyl. eng.

Part No. 323528 (12)

14mm x 1.50

2006-97 Ford Various Cars & Trucks

OEM:
Ford-F75Z-6730-BA

Includes special rubber insert gasket (323514)

Part No. 323508 (25)

14mm x 1.50

2006-95 Ford, Mazda, Mercury Trucks Various Models

OEM:
Ford-F6TZ-6730BA

Includes special rubber insert gasket (323513)

Part No. 323509 (25)

14mm x 1.50

1999-89 Miata
1999-90 323 Protege 1.6L, 1.8L

OEM:
Mazda-B6S7-10-404A

Part No. 323416 (6)

14mm x 1.50
OE Style

OE STYLE:
Hyundai/Kia
21512-2300

*Gasket offered separately use Part No. 323541

Part No. 323540 (25)

14mm x 1.50
OE Style

2013-11 Chevrolet 1.4L, 1.8L Cruz, Volt & Sonic

OEM:
55568037

Includes special "o" ring gasket (323507)

Part No. 323547 (12)

16mm x 1.50

AMC, Renault, Peugot w/Volvo engine

Part No. 323195 (12)

16mm x 1.50
OE Style

OE STYLE:
Subaru 807016160

*Gasket offered separately use Part No. 323546

Part No. 323545 (25)

16.4mm x 1.33

1962-On Nissan
1980-On Renault

Replaces:
11128-U8000

Part No. 323191 (25)

18mm x 1.50

Toyota

OEM:
90341-18089

Part No. 323192 (25)

18mm x 1.50

Volvo, Toyota

Part No. 323435 (25)

18mm x 1.50

OEM: Chrysler
5080631AAA,
Cummins 3946645

2006-03 Dodge 5.9L Diesel

Rubber molded around the wshr. face 3/8" square drive sunken head

Part No. 323525 3

18mm x 1.50
OE Style
Long (18mm under head length)

OE STYLE:
Volvo 982547-0
(also replaces 986833-0)

*Gasket offered separately use Part No. 323443

Part No. 323544 (25)

L14

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OIL DRAIN PLUG w/GASKETS (METRIC SIZES)

25mm Hex

19mm x 1.60

Volvo 4 cyl.
OEM: 948187-0

(Includes copper gasket #323293)

Part No. 323292 (6)

20mm x 1.50

Honda, Subaru
OEM: 807020010

17mm Hex

Part No. 323193 (25)

22mm x 1.50

OEM: BMW
11-13-1-250-089
Also Fits: Jeep Cherokee
Replaces: GM Truck Transfer Case Plug

19mm Hex

Part No. 323215 3

22mm x 1.50

OEM: Chrysler
4778578
2001-94 Dodge Ram 5.9 Cummins Diesel 3/8 drive
(Includes gasket #323445)

Part No. 323444 2

25mm x 1.50

Toyota
(older models)

19mm Hex

Part No. 323194 (25)

26mm x 1.50

Mercedes
Replaces:
130-997-00-32

Part No. 323212 3

26mm x 1.50

OEM: 059103193
Fits: late model Audi 90S 2.6L
(Includes gasket #323521)

7/8" Hex

Part No. 323520 (6)

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SPECIALTY DRAIN PLUGS

FORD PLASTIC CAM LOCKING DRAIN PLUG

- **2011 6.7L Powerstroke w/plastic pan design**
- **Can be hand tightened or used with standard 3/8" square drive.**

OE:
Ford BC3Z-6730A

Part No. 323542 (6)

"ONE TIME" REPLACEMENT DRAIN PLUGS

Prevents oil pan damage from stripped threads. Install "ONE TIME" plug and just remove center plug on next oil change.

*** NOT RECOMMENDED for use on Ford Products.**

12mm x 1.25

Single
Oversized

Part No. 323294 (12)

12mm x 1.75

Single
Oversized

Part No. 323222 (12)

14mm x 1.50

Single
Oversized

Part No. 323295* (12)

RUBBER TYPE EMERGENCY DRAIN PLUGS

FOR ALL RUBBER TYPE DRAIN PLUGS, NOTE THIS SPECIAL WARRANTY AND DISCLAIMER: There are no express warranties which extend beyond the description on the face hereof. **SELLER DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE.** Since Seller can't control the manner of use of it's products after their sale, seller will not be responsible for any consequential or indirect damages.

IMPORTANT INSTALLATION TIP
File drain hole threads until smooth. Sharp threads will cut rubber and cause leaks.

UNIVERSAL TOGGLE DRAIN PLUG

- ***Fast N' Easy t*o install.**
- **Fits 1/2" (12mm) to 3/4" (19mm) drain holes.**
- **Works just like the well known toggle bolt.**
- **Oil resistant rubber seal provides a leak-proof closure.**
- **DO NOT use on VW or HONDA.**
- **Make sure threaded bolt will not contact any internal parts before installation - bolt enters oil pan 1-5/8".**

Part No. 323299 6

WINGNUT LOCKING DRAIN PLUGS

- **Installs without tools.**
- **Special locking design prevents wing nut from vibrating loose.**

PART NUMBER	SIZE INCHES	QTY
108100	1/2	3
108101	5/8	3

L14

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SPECIALTY DRAIN PLUGS & LUBRICATION TOOLS

CHRYSLER DIFFERENTIAL

- Fits millions of vehicles since 1977.
- Eliminates leaks - Don't take chances with old rotted plugs.
- 3/4" size.
- OE duplicate.

Part No. **323273** (25)

TRANSMISSION and TRANSFER CASE PLUGS

- Ford aluminum plug.
- Replaces OE# E7TZ-7A010A.
- 1/2" plug with 3/8" drive.
- 3/8" drive eliminates stripping problems associated with OE 10mm drive.

Part No. **323269** 4

4WD TRANSFER CASE DRAIN PLUG

GM, FORD, CHRYSLER, JEEP

- Fits all 4 wheel drive pick-up trucks & sport utility vehicles equipped with New Process transfer case.
- About 90% coverage.
- Includes plastic washer to provide proper sealing.
- 30mm hex head.
- M22-1.50 pitch.

Part No. **323298** (6)

GM TRANSFER CASE PLUG

- 3/8" aluminum pipe plug.
- OE style.
- Replaces OEM #15032997.

2002-98 "K" body transfer case

Part No. **323524** (25)

TOYOTA TRANSMISSION/ TRANS AXLE

- 2 plugs - 1 fill and 1 drain.
- 18mm x 1.50.
- OE style.
- Gasket included (Part No. 323443).

PART NUMBER	OE NO.	APPLICATION	STYLE	QTY
323441	90341-18006	fill plug	hex	12
323442	90341-18016	drain plug	socket	12

JEEP/LEXUS/TOYOTA TRANSMISSION PLUG

- 10mm x 1.50
- OEM:
  Lexus-90341-10012, 90341-10006
  Jeep-83504041
  Gasket included (Part No. 323511).

1995-88 Jeep 4.0L
1997-89 Lexus/Toyota
1997-85 Toyota

Part No. **323510** (25)

HELI-COIL OIL DRAIN PAN REPAIR KITS

Repairs stripped threads in oil pans. Allows original drain plug to be used to give leak-tite seal.

- Saves the time and cost of replacing oil drain pans in Ford Products (1/2") and Honda/Acura (14mm).
- Made by Heli-Coil, the industry leader in thread repair.
- Simple 3 step process which can be performed with very little training:
  1. Drill out the damaged threads using the drill size specified.
  2. Tap. Use the Heli-Coil tap supplied in the kit.
  3. Install. Use the installation tool and inserts supplied in the kit. Now you are back to the original size hole and the original size plug can be used.

Kit Contents:
Tap, Installation Tool, Inserts

Replacement Parts:

THREAD SIZE	COMPLETE KIT PART NO.	INSERTS PER KIT	TAP PART NO.	INSTALLATION TOOL PART NO.	INSERT PACKAGE PART NO.	PKG'D INSERT QTY	DRILL* SIZE
1/2" - 20	**713205**	6	**713206**	**713207**	**713208**	6	33/64
14mm x 1.5	**713210**	6	**713211**	**713212**	**713213**	6	9/16

*Drills not included in kits. See section D10 for drills.

SEAL IT RIGHT with SOSMETAL'S SEAL-RITE® KIT!

Solve Leaky Drain Plug Problems Fast!

- Newly designed plug fixes 14mm plug leaks on Hondas.
- Used in many 14mm x 1.50 problem applications.
- Seals all the way to the thread with special o-ring design gasket.
- Larger sealing surfaces requires minimal torque (10 ft lbs) for effective installation.
- Seals without distortion to pans or threads.

REPLACEMENT PARTS for KIT AVAILABLE

REPLACEMENT PARTS SIZE	DESCRIPTION	PART NUMBER	COLOR
14mm	Std. Tap	**323411**	--
14mm	O.S. Tap	**323412**	--
14mm	Std. Plug	**323413**	Gold
14mm	O.S. Plug	**323414**	Silver
14mm	Gasket	**323415**	--

Part No. **323410**
117 pieces • 5 items
12029 plastic tray

323411 323413 323415
323412 323414

Numbers in assortment

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MISCELLANEOUS & DRAIN PLUG GASKET ASSORTMENTS

STEEL PLUGS

For use in oil sumps, compressors, pumps, small engines, transmissions and rears (no gaskets required).

*** Most popular automotive size.**

SIZE/INCHES TAPERED PIPE THREAD	HEX HEAD PART NUMBER	QTY	HEX SOCKET HEAD PART NUMBER	QTY	SQUARE SOCKET HEAD PART NUMBER	QTY
1/4	---	-	**323206**	12	---	-
3/8	**323202**	12	**323207**	12	**323270**	12
1/2	**323203**	12	**323208**	12	**323271***	25
3/4	---	-	**323209**	6	**323272**	6

DIN 906

SIZE//MM TAPERED PIPE THREAD	METRIC HEX SOCKET HEAD PART NUMBER	QTY
18mm x 1.50	**323501**	6
20mm x 1.50	**323502**	6
22mm x 1.50	**323503***	6

***Part No. 323503 fits:**
2000-Up Chrysler/Dodge
Diesel transfer case
NOTE: (2) plugs required per vehicle.

GM DRAIN PLUG PLATE

- **For those "canister type' filters that sit on the oil pan.**
- **Exact OEM style.**
- **Comes complete with gasket.**

Part No. 323274 3

GM DRAIN PLUG PLATE O-RING

- **This 'O' ring fits inside the metal plate.**
- **Prevent problems - change gasket on every oil change.**

I.D. 85mm

1992-87 GM 4 cyl. 2.5L
OEM: GM - 10038854

Part No. 323100 (12)

"MASTER LUBE SHOP"

Consists of popular size gaskets in nylon, fibre, copper flat, copper crush, aluminum, special gaskets for GM, Honda, BMW, Mercedes, Volkswagen, Subaru, Hyundai and Toyota.

PARTS BOOKLET PB58 SHIPPED WITH THIS ASSORTMENT

Part No. 501481
488 pieces • 32 items • 12062 steel tray

10820W	323181W	323260	323284	323443
10822W	323196	323261	323286	323445
10825	323197	323262	323291	323507
10886	323199	323280	323293	323513
10891	323224	323281	323296	
10893	323227	323282	323429	
323160	323230	323283	323431	

Numbers in assortment

MASTER DRAIN PLUG GASKETS

- **All sizes covered.**
- **Four different types: copper, aluminum, nylon and fibre.**

PARTS BOOKLET PB59 SHIPPED WITH THIS ASSORTMENT

Part No. 323150
1135 pieces • 32 items • 12062 steel tray

10820W	10893	323244	323283	323431
10821	323160	323260	323284	323445
10822W	323181W	323261	323286	323507
10823	323196	323262	323291	323519
10824	323197	323280	323293	
10825	323199	323281	323296	
10891	323224	323282	323429	

Numbers in assortment

POPULAR GASKETS

- **Contains our most popular gaskets.**
- **Minimum investment/maximum coverage.**

Part No. 323013
211 pieces • 12 items • 12038 plastic tray

10820W	10889	10895	323224
10822N	10891	323196	323226
10824	10893	323199	323281

Numbers in assortment

FIBRE GASKETS

- **Includes standard, oversize and double oversize gaskets.**
- **1/2", 5/8", 11/16", 3/4", 7/8", and 1" sizes.**

Part No. 10803
120 pieces • 8 items • 12030 plastic tray

10820N	10822N	10824	10826
10821	10823	10825	10827

Numbers in assortment

VITON INSERT DRAIN PLUG GASKETS

Part No. 323000
103 pieces • 4 items • 12028 plastic tray

323281	323286	323439	323440

Numbers in assortment

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SPECIALTY DRAIN PLUG GASKETS

VITON INSERT OIL DRAIN PLUG GASKETS

Our most popular gaskets for a leak proof seal. Metal encased rubber seal gaskets.

- **1/2" and 12mm.**

2005-87
GM Products
OEM:
GM - 14090908

Std. Replacement
Part No. 323281 (100)

Original OE
Part No. 323132 (100)

- **14mm.**

1998-89
Ford Products
OEM: F3DZ-6734-A

Std. Replacement
Part No. 323286 (100)

Original OE
Part No. 323140 (100)

- **16mm.**

For hard-to-seal pans.

Part No. 323439 (25)

- **18mm.**

For hard-to-seal pans.

Part No. 323440 (25)

AUDI/VW

- **26mm gasket.**
- **OE copper.**

Audi 90S 2.6L
2001-72 VW
except late
model Beetle

Part No. 323521 (12)

VOLVO

- **19mm** gasket for 4 cyl. engines.
- **OE copper.**

Part No. 323293 (50)

RIBBED NYLON

- **A triple defense against leaks - 3 concentric rings will either flatten or remain raised, depending on pan's surface imperfections.**
- **Internal tabs allow gasket to fit tightly and remain properly positioned.**

SIZE	PART NUMBER	QTY
12mm	323188	100
14mm	323189	100
1/2	323190	100

SATURN

- **12mm** gasket made of Delrin.
- **Original OE type gasket for Saturn.**
- **Will not replace new rubber gasket.**

Part No. 323291 (50)

- **12mm.**
- **NEW OE soft rubber design.**
- **OEM #21007240.**
- **Used with Drain Plug No. 323259.**
- **O-Ring like seal.**

Part No. 323296 (25)

GM RUBBER INSERT "Blue"

- **12mm.**
- **OE soft rubber design.**
- **O-ring like seal.**
- **Used with Drain Plug No. 323538**

OE STYLE:
GM 12616850

Part No. 323539 (25)

FORD RUBBER INSERT

- **12mm.**
- **OE soft rubber design.**
- **O-ring like seal.**
- **Used with Drain Plug No. 323517.**

Part No. 323519 (25)

- **14mm.**
- **OE soft rubber design.**
- **O-ring like seal.**
- **Used with Drain Plug No. 323509**

Part No. 323513 (25)

- **14mm.**
- **OE soft rubber design.**
- **O-ring like seal.**
- **Used with Drain Plug No. 323508**

Part No. 323514 (25)

CHRYSLER RUBBER INSERT

- **14mm.**
- **OE soft rubber design.**
- **Used with Drain Plug No. 323528**

Part No. 323529 (25)

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SPECIALTY DRAIN PLUG GASKETS

OE BMW O-RING FOR PLASTIC PLUG

- Not available separately from BMW.
- Fits BMW Plastic Drain Plug OEM: 11-13-7-706-018

2013-12 2.0L 328i, 528i, 528i Drive, Z4

Part No. 323548 (25)

OE MERCEDES / BMW

Extra narrow copper gasket needed for exact fit.

SIZE	PART NUMBER	QTY
12mm	**323283**	50
14mm	**323284**	50
26mm	**323285**	50

OE FOLD OVER

Fold over gaskets must be replaced on every oil change to prevent leaks.

SIZE	PART NUMBER	QTY	APPLICATIONS
14mm	**323282**	50	Hyundai 21513-21000
16mm	**323546**	25	Subaru 803916010
20mm	**323280**	50	Subaru 11126AA000

OE TOYOTA

- Extra sealing ability to handle imperfections in Toyota pan.
- Synthetic.

SIZE	PART NUMBER	QTY
12mm	**323196**	50
18mm	**323199**	50

OE FORD

- OE rubber "O" ring gasket.
- Use with Drain Plug No. 323542.

***NOT currently offered separately from Ford.**

Part No. 323543 (25)

GM INSERT

- **12mm.**
- OE soft rubber design.
- O-Ring like seal.
- Replacement gaskets used on GM OEM plug #3536964 and #3538469.
- Used with Drain Plug No.'s 323427 & 323428.

Part No. 323429 (25)

OE TOYOTA

- **12mm.**
- Metal/Teflon design.
- Toyota 1996-92 OEM #90430-12031 Lexus 1996-93.

Part No. 323431 (25)

OE HONDA

- **14mm.**
- OE size–OE soft aluminum.
- Soft aluminum is critical for Honda applications.

OEM: Honda - 94109-14000

Part No. 323224 (100)

OE TOYOTA TRANSMISSION

- **18mm.**
- OE aluminum.

OEM: 90430-18008

Part No. 323443 (25)

OE CHRYSLER

- **22mm.**
- Metal/rubber design.
- Dodge Ram 5.9 cummins diesel.
- Use with Drain Plug No. 323444.

OEM: 4882049

Part No. 323445 (25)

OE CADILLAC

- OE rubber "O" ring gasket
- Use with Drain Plug No. 323506

OEM: 90528145

Part No. 323507 (25)

JEEP/LEXUS/TOYOTA TRANSMISSION

- Use with Drain Plug No. 323510

OEM: Jeep-83504041 Lexus-35178-50010 35178-30010

Part No. 323511 (25)

HYUNDAI/KIA

- **14mm.**
- OE style aluminum
- Use with Drain Plug No. 323540

OEM: 21513-2300

Part No. 323541 (50)

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DRAIN PLUG GASKETS and GREASE FITTINGS

FRACTIONAL/METRIC OIL DRAIN PLUG GASKETS

THE RIGHT TYPE and SIZE FOR ALL YOUR NEEDS

SIZE MM	COPPER FLAT	QTY	COPPER CRUSH	QTY	ALUMINUM	QTY	NYLON	QTY	FIBRE	QTY	SYNTHETIC	QTY	I.D.
12mm	323230	50	323260	100	---	-	323160*	100	323181+	100	---	-	--
---	323226	50	323133	100	323241	50	10891*	100	10820+	100	323196	50	1/2 Std
---	---	-	---	-	---	-	10892	100	10821	100	---	-	1/2 O.S.
14mm	323227	50	323261	50	323242	50	10893*	100	10822+	100	323197	50	1/2 D.O.S.
---	---	-	---	-	---	-	---	-	323179	50	---	-	5/8
16mm	323231	50	323262	50	323243	50	10895	100	10823	100	---	-	5/8 O.S.
18mm	323232	50	323263	50	323244	50	10888	100	10824	100	323199	50	11/16
20mm	323233	50	323264	50	323245	50	10889	100	10825	100	---	-	3/4
22mm	---	-	---	-	---	-	---	-	10826	100	---	-	7/8
24mm	---	-	---	-	---	-	---	-	---	-	---	-	15/16
25mm	---	-	---	-	---	-	---	-	10827	100	---	-	1
26mm	---	-	---	-	---	-	---	-	---	-	---	-	1-1/32

CODE CHART

MM - MILLIMETER
OS - OVERSIZE
DOS - DOUBLE OVERSIZE

ALL SIZES ARE I.D. (INSIDE DIAMETER) EXCEPT AS NOTED

* For **Double Thick** 1/2" I.D. Gasket:		Order No. 10885
For **Double Thick** 12mm I.D. Gasket:		Order No. 10886
For **Double Thick** 14mm I.D. Gasket:		Order No. 10887
+ For **Narrow** 3/4" O.D. Gasket:	1/2" I.D.	Order No. 10820N
	M14 I.D.	Order No. 10822N
	M12 I.D.	Order No. 323181N
For **Wide** 1" O.D. Gasket:	1/2" I.D.	Order No. 10820W
	M14 I.D.	Order No. 10822W
	M12 I.D.	Order No. 323181W

AUTOMOTIVE GREASE FITTINGS

- **Contains the most popular standard and metric grease fittings.**

Part No. 415103
400 pieces • 18 items • 12071 steel tray

10830	10834	10840	532094	532098
10831	10835	532091	532095	532099
10832	10836	532092	532096	
10833	10838	532093	532097	

Numbers in assortment

INDUSTRIAL GREASE FITTINGS

- **Includes standard and giant button head styles.**

Part No. 10809
294 pieces • 17 items • 12017 steel tray

10830	10834	10838	10842	10857
10831	10835	10839	10847	
10832	10836	10840	10848	
10833	10837	10841	10856	

Numbers in assortment

GREASE FITTING TOOL ASSORTMENTS

(STEEL) Part No. 10805 with Removing Tool
117 pieces • 13 items • 12029 plastic tray

10830	10833	10836	10842	532094
10831	10834	10838	10880	
10832	10835	10840	532091	

Numbers in assortment

(STEEL) Part No. 10804
116 pieces • 12 items • 12029 plastic tray

10830	10833	10836	10842
10831	10834	10838	532091
10832	10835	10840	532094

Numbers in assortment

SELF-TAPPING GREASE FITTINGS

Part No. 10951
35 pieces • 4 items • 12024 plastic tray

10982	10983	10984	10985

Numbers in assortment

METRIC GREASE FITTINGS

(STEEL) Part No. 53206
48 pieces • 9 items • 12030 plastic tray

532091	532094	532097
532092	532095	532098
532093	532096	532099

Numbers in assortment

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GREASE FITTINGS

GREASE FITTING and BRAKE BLEEDER SCREW CAPS

Prevent clogged grease fittings & brake bleeder screws

- Used on automotive, construction, farm, mining and industrial equipment.
- Red color is easy to see.
- Fits all grease fittings & brake bleeder screws.
- Constructed of high strength plastic.

CAP
with Integral Retaining Ring
Keeps cap on fitting during service.

Part No. **10849** (100)

GREASE FITTING EASY-OUT TOOL

- Removes 5/16'' and 3/8'' hex.
- Retaps 1/4-28 std. thread
- Removes 1/4-28 std. thread.

Part No. **10880**

GREASE FITTINGS

For cars, trucks, machinery, industrial equipment.

FITTING TYPE 1

FITTING TYPE 2

FITTING TYPE 3

L14

– HYDRAULIC –

- Precision engineered to OEM specifications.
- Designed to give full-flow lubrication without restriction.
- Check valve equipped for extended performance and reliability.

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10830	1	1/4-28 tapered	33/64	--
10975	1	1/4-28 tapered	11/16	--
10846	1	1/4-28 tapered	15/16	--
10831	1	1/4-28 tapered	1-1/8	--
10851	1	1/4-28 tapered	1-5/8	--
10832	2	1/4-28 tapered	13/16	45°
10833	2	1/4-28 tapered	29/32	45°
10834	2	1/4-28 tapered	3/4	90°
10976	1	1/4-28 UNF	1/2	--
10835	1	5/16-24 UNF	21/32	--
10837	1	3/8-24 UNF	21/32	--
10838	1	1/8 pipe	11/16	--
10977	1	1/8 pipe	1-1/4	--
10860	1	1/8 pipe	1-3/4	--

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10987	1	1/8 pipe	2-5/8	--
10839	2	1/8 pipe	29/32	30°
10840	2	1/8 pipe	29/32	45°
10841	2	1/8 pipe	27/32	65°
10842	2	1/8 pipe	27/32	90°
10844	1	1/4 pipe	11/16	--
10836	1	3/16 drive	33/64	--
10981	1	1/4 drive	39/64	--
10858	1	5/16 drive	9/16	--
10859	1	3/8 drive	19/32	--
10982	1	1/8 self tapping	5/8	--
10983	1	1/4-28 self tapping	17/32	--
10984	2	1/4-28 self tapping	7/8	45°
10985	2	1/4-28 self tapping	47/64	90°

– HYDRAULIC SELF-TAPPING –

- Tapered drive threads reshape material in a untapped hole providing a leak proof seal.
- Installed by spinning or driven straight into untapped hole.
- Dyed yellow for identification.
- Maximum pressure 10,000 PSI

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10982	1	1/8 pipe	5/8	--
10983	1	1/4-28 tapered	17/32	--

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10984	2	1/4-28 tapered	7/8	45°
10985	2	1/4-28 tapered	47/64	90°

– METRIC DIN 71412 –

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
532091	1	6mm	13mm	--
532092	2	6mm	21mm	45°
532093	2	6mm	17mm	90°
532094	1	8mm	17mm	--
532095	2	8mm	21mm	45°
532096	2	8mm	17mm	90°
532097	1	10mm	18mm	--
532098	2	10mm	21mm	45°
532099	2	10mm	17mm	90°

– STANDARD BUTTON HEAD –

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10847	3	1/8 pipe	3/4	--
10848	3	1/4 pipe	53/64	--

– GIANT BUTTON HEAD –

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10856	3	1/4 pipe	1-1/4	--
10857	3	3/8 pipe	1-5/16	--

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GREASE FITTINGS

FRACTIONAL

10830 | 10975 | 10846 | 10831 | 10851 | 10832 | 10833 | 10834

10976 | 10835 | 10837 | 10838 | 10977 | 10860 | 10987 | 10839

10840 | 10841 | 10842 | 10844 | 10836 | 10981 | 10858 | 10859

SELF-TAPPING

10982 | 10983 | 10984 | 10985 | 10847 | 10848 | 10856 | 10857

METRIC

532091 | 532092 | 532093 | 532094 | 532095 | 532096 | 532097 | 532098 | 532099

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MISC. ENGINE HARDWARE & HEATER HOSE

SHEET GASKET MATERIAL

PART NUMBER	SHEET SIZE (INCHES)	MATERIAL
323152	18 x 36 x 1/64	Flexible Fibre
323154	18 x 36 x 1/32	Flexible Fibre
323156	18 x 36 x 1/16	Flexible Fibre
323186	12 x 20 x 1/32	High Temp Non-Asbestos
323187	12 x 20 x 1/16	High Temp Non-Asbestos
323185	12 x 36 x 1/8	Cork

HANDY ROLL

SILICONE HOSE *For Maintenance Free Cooling Systems*

For trucks, buses, off-highway construction equipment, compressors, and generators.

PART NUMBER	HOSE I.D.	LENGTH	BURST PRESSURE (PSI) SAE J20E PART 1	REPLACES PUROSIL	GATES
418312	2	3 ft.	200	70-200	24832
418313	2-1/4	3 ft.	175	70-225	24836
418314	2-1/2	3 ft.	150	70-250	24840
418315	2-3/4	3 ft.	125	70-275	24844
418316	3	3 ft.	100	70-300	24848

$200.00 MINIMUM ORDER OF COMBINED SIZES

Color: **BLUE**

OUTLASTS CONVENTIONAL HOSE BY 6 TIMES

- Resists aging, ozone, chemicals, lubricants,hardening, and cracking.
- Flexible and resilient at temperatures as low as –65° F. Withstands temperatures to +350° F.
- Cuts operating cost and eliminates down time.
- Meets or exceeds operating requirements of SAE J20E, TMC, and OEM truck manufacturers.

RED INSULATED HEATER HOSE

Meets OEM & SAE 2 or 3 CLASS D2 SPECIFICATIONS

- Conquers the ozone problem and assures trouble - free service.
- 100% EPDM compound throughout, hose resists anti-freeze, high and low temperatures, abrasion, swelling, flaking and softening.
- Unexcelled insulation layer keeps heat inside the hose to provide maximum heater efficiency.
- OEM plus insulation layer.

PACKED IN 50 FOOT ROLLS

PART NUMBER	SIZE
60709	1/2
60710	5/8
60711	3/4

OEM HEATER HOSE

Available in BLACK or RED

- Compounded to exact ***original equipment specs*** - will not soften, flake or swell.
- High strength synthetic reinforcement provides strength and flexibility.
- Special EPDM rubber tubing and cover for exceptional performance under extreme temperatures.
- Withstands corrosive additives and coolant solutions.

PACKED IN 50 FOOT ROLLS

RED PART NUMBER	BLACK PART NUMBER	I.D.
60707R	60707B	1/2
60705R	60705B	5/8
60706R	60706B	3/4
---	60704B	1

SILICONE HEATER AND COOLANT HOSE

Reduce operating cost & eliminate down time.

Silicone hose is intended for heating systems exposed to constant, high heat such as bus engine compartments, over-the-road and city diesels, or gasoline tractors. These systems must have a fail-safe heater hose system guaranteeing no coolant system failure due to hose problems.

- Durable and long lasting.
- Extremely flexible.
- OEM spec. for many H.D. trucks.
- **Construction tube** - silicone rubber, specially compounded for long life.
- **Reinforcement** - Braided glass fibers compatible with most anti-freeze. Braid expands for easy assembly to fitting.
- **Cover** - silicone rubber.
- **Temperature range** - (-65°F to +350°F).
- **Specifications** - SAE J20R3 Class A.

Old style EPDM rubber
-40°F to +250°F temp. capability

(6X Life) silicone
-65°F to +350°F temp. capability

- Color - Blue.
- Up to 10 years service life.

PACKED IN 25 FOOT ROLLS

6X Life

PART NUMBER	HOSE I.D.	BURST PRESSURE TYPICAL VALUES	BURST PRESSURE SAE J20R3 REQUIREMENTS	TMC	MIN. BEND RADIUS (INCHES)
418301	5/8	300	200	125	2
418302	3/4	300	200	125	2-1/2
418303	1	250	175	125	3

(TMC - truck motor vehicle code)

SURE-FIT™ HIGH-TEMP FORMED HEATER HOSE

- Eliminate kinked & crimped hoses.
- Only 4 hoses provide coverage for 2,500 applications.
- Over 70 million vehicles use formed heater hose.
- Cut and splice to form any shape using nylon hose splicers.

PART NUMBER	HOSE I.D.	LENGTH
324024	5/8	4 x 90° x 24
324048	5/8	4 x 90° x 48
324824	3/4	4 x 90° x 24
324848	3/4	4 x 90° x 48

Available in 5/8" or 3/4" I.D. Available in 24" or 48" lengths.

Formed 90° bend.

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HEATER HOSE ACCESSORIES & HOSE FITTINGS

U-BEND HOSE COIL

INSTRUCTIONS

STEP 1
Slide the coil to where bend is required. Position spine on the inside of the intended bend.

STEP 2
Press spine until required bend is achieved

NOTE: Gradual bend in spine will achieve best results. Maximum bending angle 90°.

Eliminates the need for expensive formed or molded hoses. Bends to any shape you need!

Contains: U-Bend coils, lined hose clamps and EPHA hose protectors and cable ties.

- **U-Bend Hose Coil allows you to bend straight hose into curved shapes.**
- **Only takes seconds to shape using hand pressure.**
- **Quality products made from stainless steel for lifetime service.**

Available in 3 sizes to fit water, oil, air & fuel hose applications.

PART NUMBER	HOSE I.D.	QTY
618441	1/2" - 12.7mm	2
618442	5/8" - 16mm	2
618443	3/4" - 19mm	2

Part No. 501755
28 pieces • 8 items
12051 steel tray

10286	**618432**
10287	**618441**
10288	**618442**
618429	**618443**

Numbers in assortment

Related Items (Page G15-24)

Available in 3 sizes! cable ties included

SIZES (INCHES) LENGTH x WIDTH	COLORS BLACK PART NO.	ORANGE PART NO.	YELLOW PART NO.	QTY
4 x 2-1/2	**618425**	**618426**	**618427**	10
6 x 3	**618428**	**618429**	**618430**	10
8 x 3-1/2	**618431**	**618432**	**618433**	10

These are wear shield products and are not suitable as patches or repairs for hoses, cables, lines, etc. that are already worn beyond safe use standards.

HOSE ELBOWS

- **Nylon or metal construction.**

HOSE SIZE (INCHES)	NYLON PART NUMBER	QTY
1/2	**408113**	12
5/8	**408114**	12
3/4	**408115**	12

HOSE TEES

- **Nylon construction.**

HOSE SIZE (INCHES)	NYLON PART NUMBER	QTY
5/8	**408108**	2
3/4	**408109**	2

HOSE SPLICERS

- **Nylon or metal construction.**

HOSE SIZE (INCHES)	NYLON PART NUMBER	QTY	METAL PART NUMBER	QTY
1/2	**408111**	10	**408120**	2
5/8	**408104**	10	**408121**	2
3/4	**408105**	10	**408122**	2
1	**---**	-	**408123**	2

FORD HEATER HOSE QUICK DISCONNECT CONNECTORS

- **Includes retaining clip.**
- **O.E. replacement.**

PART NUMBER	APPLICATION	TUBE SIZE (INCHES)	HOSE SIZE (INCHES)	QTY
508544	1999-90	3/4	5/8	3
508545	Ford Tuck 1999-90	5/8	5/8	3

REDUCING HOSE TEES

- **Nylon or metal construction.**

HOSE SIZE (A)	HOSE SIZE (B)	NYLON PART NUMBER	QTY
1/2	3/4	**408116**	2

HEATER BY-PASS HOSE CAPS

- **Durable, heat resistant neoprene.**
- **Cap water pump, heater core & manifold outlets.**

HOSE SIZE (INCHES)	PART NUMBER	QTY
5/8	**315116**	24
3/4	**315117**	24

GM HEATER HOSE QUICK DISCONNECT CONNECTORS

- **Includes retaining clip.**
- **OE replacement.**

PART NUMBER	APPLICATION	HOSE SIZE (INCHES)	QTY
508887	1998-90 GM 3.1, 3.4, 5.7 (Corvette Only), 6.2	5/8	3

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BRASS DRAIN COCKS

BRASS DRAIN COCKS

SUPER VALUE PACK - 50 per box
Part No. 508245
Replacing GM No. 3663932

(Other package options available)

Numbers in assortment

ILLUSTRATION	PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
Hose Extension	508247	6788	1/4	6
Internal Seat				
90° Hose Extension	508243	6660	1/4	6
External Seat				

ILLUSTRATION	PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
External Seat	508244	135	1/8	12
	508245	145	1/4	12
	508248	270	3/8	6
Internal Seat	508271	140	1/4	6
	508272	230	3/8	6
Heavy Duty Long Neck Style				

L15

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ASSORTMENTS

MASTER R134a O-RINGS

MASTER R134a O-RING ASSORTMENT ONE

R134a & R12 Compatible - Recommended for High Temperature Service
Contains all Green HNBR O-Rings plus Square Cut Seals, Dual O-Ring Gaskets and Springlock Springs

- **Contains all small and medium size I.D. R134a O-Rings.**

Part No. 501690
740 pieces • 32 items • 12062 steel tray

923620	923717	923728	923739	923744	923780	923785
923710	923718	923732	923740	923775	923781	923789
923711	923720	923733	923741	923776	923782	
923712	923721	923737	923742	923777	923783	
923716	923727	923738	923743	923779	923784	

Numbers in assortment

MASTER R134a O-RING ASSORTMENT THREE

R134a Compatible - Recommended for High Temperature Service
Contains: Green HNBR O-Rings • 32 Compartment Tray for Future Expansion

- **Coverage for all 2000 thru 2005 Domestic vehicles.**

Part No. 923850
132 pieces • 22 items • 12062 steel tray

923711	923856	923861	923866	923871
923785	923857	923862	923867	
923852	923858	923863	923868	
923853	923859	923864	923869	
923854	923860	923865	923870	

Numbers in assortment

MASTER R134a O-RING ASSORTMENT FOUR

Contains: O-Rings for BMW, Honda, Mazda, Mercedes, Mitsubishi, Nissan & Toyota

- **Coverage for all 2000 thru 2005 Import vehicles.**

Part No. 923851
174 pieces • 21 items • 12062 steel tray

923711	923864	923871	923876	923881	923886	923891
923855	923865	923872	923877	923882	923887	923892
923861	923868	923873	923878	923883	923888	
923862	923869	923874	923879	923884	923889	
923863	923870	923875	923880	923885	923890	

Numbers in assortment

PRO-SERIES SERVICE ITEMS

Contains: O-Rings, Gaskets, Sealing Washers, Keyways, Shims, Fittings, Caps and Orifice Tubes, etc.

- **Made for the professional, this kit contain o-rings thru 2005 vehicles.**

Part No. 923893
1054 pieces • 216 items

Heavy duty portable cabinet comes with a handle and snap lock cover.

DELUXE SERVICE ITEMS

Contains: O-Rings, Gaskets, Sealing Washers, Caps and other service items.

- **Coverage for 1995 thru 2005 vehicles.**

Part No. 924415
605 pieces • 204 items

L17

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ASSORTMENTS

UNIVERSAL R134a O-RINGS

R134a & R12 Compatible - Recommended for High Temperature Service
Contains: Green HNBR O-Rings

Part No. 923617
180 pieces • 18 items • 12040 plastic tray

923711	923727	923775	923779	923784
923712	923728	923776	923780	923787
923713	923735	923777	923781	
923721	923736	923778	923782	

Numbers in assortment

UNIVERSAL O-RINGS

R134a & R12 Compatible - Recommended for High Temperature Service
Contains: Green HNBR O-Rings

- **Available in double quantities, use Part No. 923031L.**

Part No. 923031
240 pieces • 23 items • 12045 plastic tray

923711	923721	923775	923779	923783	923787
923712	923722	923776	923780	923784	923788
923714	923727	923777	923781	923785	923789
923720	923728	923778	923782	923786	

Numbers in assortment

AIR CONDITIONING IMPORT O-RINGS

R134a & R12 Compatible - Recommended for High Temperature Service
Contains: Green HNBR O-Rings

Part No. 923601
143 pieces • 19 items • 12045 plastic tray

923730	923740	923744	923777	923784
923737	923741	923745	923780	923788
923738	923742	923775	923781	923789
923739	923743	923776	923783	

Numbers in assortment

CHRYSLER HOSE FITTING O-RINGS

Replaces OE red or green components.
Contains: Green HNBR O-Rings

Part No. 923048
90 pieces • 7 items • 12032 plastic tray

923426	923620	923742	923745
923619	923718	923743	

Numbers in assortment

SLIM LINE SEALING WASHERS

GM Sealing Washers

Part No. 923899
20 pieces • 4 items • 12037 plastic tray

923895	923896	923897	923898

Numbers in assortment

GM A/C MASTER SEALS

R134a & R12 Compatible - Recommended for High Temperature Service
Contains: Green HNBR O-Rings

Part No. 923028
155 pieces • 18 items • 12040 plastic tray

923344	923712	923731	923776	923784
923345	923721	923736	923777	923787
923346	923727	923739	923778	
923711	923728	923775	923782	

Numbers in assortment

FORD SPRINGLOCK O-RINGS

R134a & R12 Compatible - Recommended for High Temperature Service

- **Metric sizes with thicker cross section.**

Part No. 923008 (Metric "Oversize")
45 pieces • 4 items • 12037 plastic tray

923716	923717	923718	923719

Numbers in assortment

FORD SPRINGLOCK COUPLING O-RINGS & SPRINGS

R134a & R12 Compatible - Recommended for High Temperature Service

- **(Not for use in fuel fittings.)**

Part No. 923025 (Standard OE Size)
60 pieces • 8 items • 12031 plastic tray

923446	923448	923775	923777
923447	923449	923776	923778

Numbers in assortment

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FIBER and METAL GASKETS

Part No. 923356 (10) (Steel)
Chrysler C171,
A590 suction/
discharge
port.

Part No. 923857 2
Dodge truck
compressor gasket.
Use with (923741) o-ring.

Part No. 923357 (10) (Steel)
.437" pilot hole (11.1mm)
Chrysler receiver drier.

Part No. 923858 2 (Metal)
Chrysler 3/8" drier/liquid line.
Use with (923789) o-ring.

Part No. 923367 (10) (Steel)
.377" pilot hole (9.6mm)
Chrysler bottle block.

Part No. 923859 2 (Metal)
Chrysler 5/8" hose fitting.
Use with (923867) o-ring.

Part No. 923413 (10) (Gold)
Sanden compressor
discharge seal washer.
Dakota/Ram
OEM: 56005915

Part No. 923860 (10) (Steel)
Chrysler TVX to evaporator
(gold valve).

Part No. 923856 (10)
Dodge truck
compressor gasket.
Use with (923866) o-ring.

GM BLOCK FITTING SEALING WASHERS - SLIMLINE

Part No.
923895 2

Thickness:
1.3mm
O.D.: 16.1mm
I.D.: 8.1mm

Part No.
923896 2

Thickness:
1.3mm
O.D.: 19.0mm
I.D.: 11.1mm

Part No.
923897 2

Thickness:
1.3mm
O.D.: 23.6mm
I.D.: 15.5mm

Part No.
923898 2

Thickness:
1.3mm
O.D.: 25.1mm
I.D.: 17.2mm

Illustrations shown are actual size.

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O-RINGS

Part No. 923779 25 Green

1/4" "O" ring for P.O.A. and suction throttling valve bleed and equalizer fittings.

Part No. 923880 25 Green\

Ford combination valve liquid bleed tube connection
Nissan #6 hose/ expansion valve/capillary tube VIR liquid bleed line.

Part No. 923737 25 Green

Ford bleed tube, 5mm for #6 hose fitting, Nissan.

Part No. 923710 25 Green

5mm "O" ring for hose fittings.

Part No. 923738 25 Green

6mm for #8 hose fitting, drier seal.

Part No. 923879 25 Green

Metric hose and drier, Mitsubishi FX 105V rear housing, Sanden TR70 oil drain bolt.

Part No. 923740 25 Green

Toyota/HondA/Volvo #5 hose, Honda manifold.

Part No. 923884 25 Green

Metric - Asian Imports.

Part No. 923854 25 Green

Ford/GM orifice tube.

Part No. 923780 25 Green

14mm & 16mm threaded fittings.
GM & Diesel Kiki oil filler plug.

Part No. 923789 25 Green

Toyota/Honda Hose
"O" ring for flat top/pad type filter driers.

Part No. 923739 25 Green

"O" ring for Ford & GM orifice tubes.
GM DA6/HR6/HR6HE discharge crossover.

Part No. 923620 25 Green

Chrysler springlock o-ring
OEM #'s 4798675, 4882139, 4723019, 4720749

Part No. 923878 25 Green

Metric ***"CAPTIVE"*** "O" ring - Calsonic, Honda, Nissan, Toyota

Part No. 923716 25 Green

#6 Springlock coupling seal - oversize.

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O-RINGS

Part No. 923869 25 Green

Metric - Imports.

Part No. 923775 50 Green

#6 (3/8" I.D.) "O" ring for hose fittings, springlock couplings, V.I.R. pick-up tube, GM 3/16" & 1/4" S.A.E. pressure switches. Volvo #6 hose.

Part No. 923782 25 Green

#6 (5/16" I.D.) GM ***"CAPTURED"*** "O" ring for hose fittings.

Part No. 923741 25 Green

Toyota hose.

Part No. 923861 25 Green

Ford 12mm switchport - metric (cycling pressure switch).

Part No. 923781 25 Green

12mm "O" ring for Sanden (Sankyo) and York compressor oil filler plug, Chrysler low pressure limit switch, all pressure relief valves and small quick disconnect fittings. Volvo pressure switch.

Part No. 923711 25 Green

"O" ring for GM 1/2" O.D. tube dual "O" ring fittings.

Part No. 923742 25 Green

Toyota/Honda manifold, Honda hose.

Part No. 923776 50 Green

923666 25 Yellow

#8 (1/2" I.D.) "O" ring for #8 and 10mm hose fittings and springlock couplings. Volvo #8 hose.

Part No. 923717 25 Green

#8 Springlock coupling seal - oversize.

Part No. 923873 25 Green

GM & Asian Imports.

Part No. 923732 25 Green

10.5mm "O" ring for Chrysler metric fittings.

Part No. 923872 25 Green

Metric - Imports.

Part No. 923871 25 Green

Diesel Kiki DKS16H oil fill plug Hitachi A5000/MJS170 suction/discharge valve.

Part No. 923727 25 Green

#8 (1/2" I.D.) GM ***"CAPTURED"*** "O" ring for hose fittings.

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O-RINGS

Part No. 923712 25 Green

"O" ring for GM 5/8" O.D. tube dual "O" ring fittings.

Part No. 923876 25 Green

#10 metric - dual "O" ring.

Part No. 923743 25 Green

Toyota/Honda manifold, Toyota hose.

Part No. 923720 25 Green

#8 (1/2" I.D.) "O" ring for compression fittings, orifice tube repair kits and GM fixed orifice tube.

Part No. 923718 25 Green

#10 Springlock coupling seal - oversize.

Part No. 923866 25 Green

Use with Chrysler gasket #923856.

Part No. 923783 25 Green

"O" ring for V.I.R. sightglass and GM fixed orifice expansion valve. Hitachi A5000 & MJ170 series hose connections, Nissan liquid line.

Part No. 923777 50 Green

#10 (5/8" I.D.) "O" ring for tube "O" ring compressor fittings, hose fittings and springlock couplings. Volvo #10 hose.

Part No. 923852 25 Green

Fits 2000/Up GM

Part No. 923882 25 Green

Metric - Imports.

Part No. 923855 25 Green

GM & Asian Imports.

Part No. 923744 25 Green

Honda manifold

Part No. 923867 25 Green

Use with Chrysler gasket #923859.

Part No. 923728 25 Green

#10 (1/2" I.D.) GM ***"CAPTURED"***
"O" ring for hose fittings.

Part No. 923784 25 Green

#12 (3/4" I.D.) GM ***"CAPTURED"***
"O" ring for hose fittings and R-134a high-side adapters.

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O-RINGS

Part No. 923733 25 Green

13.5mm “O” ring for Chrysler metric fittings.

Part No. 923863 25 Green

Metric ***“CAPTIVE”*** “O” ring - Nissan, Calsonic, Honda.

Part No. 923874 25 Green

Metric - Asian Imports.

Part No. 923870 25 Green

Nippondenso TV10CA carbon seal.

Part No. 923868 25 Green

Nissan compressor discharge flange.

Part No. 923721 25 Green

“O” ring for GM 3/4” O.D. tube dual “O” ring fittings. “O” ring for Ford compressors.

Part No. 923864 25 Green

Metric ***“CAPTIVE”*** “O” ring - Nippondenso compressor - Nissan, Calsonic, Honda.

Part No. 923785 25 Green

“O” ring for discharge port on Sanden (Sankyo) compressors. Aerostar heater quick disconnect fitting.

Part No. 923719 25 Green

#12 Springlock coupling seal - oversize.

Part No. 923875 25 Green

Metric - Chrysler & Asian Imports.

Part No. 923778 25 Green

#12 (3/4” I.D.) “O” ring for hose fittings, springlock couplings and V.I.R. expansion valve (lower). Volvo #12 hose.

Part No. 923862 25 Green

Metric 16.9mm Nippondenso compressor.

Part No. 923881 25 Green

Metric - Asian - compressor manifold.

Part No. 923619 25 Green

Chrysler springlock kit o-ring OEM #4746781 (kit).

Part No. 923729 25 Green

“O” ring for Ford FS-6 and Ford Nippondenso compressors.

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O-RINGS

Part No. 923735 25 Green

"O" ring for Chrysler block valve.

Part No. 923886 25 Green

Diesel Kiki DKS15BH/DKS15CH discharge port
GM V5 control valve (outside)
Behr Bosch carbon shaft seal
Nihon DKV14B carbon shaft seal
Sanden TR105 discharge port.

Part No. 923722 25 Green

"O" ring for large size quick disconnect fittings.

Part No. 923788 25 Green

Discharge/suction port "O" ring for
Chrysler A590, C171, Ford FS6.

Part No. 923730 25 Green

"O" ring for suction port on Sanden (Sankyo) compressors. Aerostar heater quick disconnect fitting.

Part No. 923853 25 Green

Fits 2000/Up GM

Part No. 923745 25 Green

Chrysler springlock kit o-ring
OEM: 4746781 (kit)
Toyota/Honda manifold.

Part No. 923887 25 Green

Metric - Imports.

Part No. 923865 25 Green

Metric - 19.8mm, diesel Kiki.

Part No. 923723 25 Green

"O" ring for Chrysler E.P.R. valve and
Ford suction throttling valve.

Part No. 923786 25 Green

"O" ring for Ford block-type combination valve.

Part No. 923731 25 Green

"O" ring for fan, superheat, high side cut-out and high side pressure switches on Harrison (Frigidaire) compressors.

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O-RINGS

Part No. 923787 50 Green

"O" ring (standard) for discharge and suction ports on Harrison (Frigidaire) compressor, manifolds on FX-15 compressor & shaft seal seat "O" ring on 6C17 compressor.

Part No. 923877 25 Green

Sanden shaft seal seat.

Part No. 923888 25 Green

Metric - Imports.

Part No. 923724 25 Green

GM threaded switch conversion
"CAPTIVE" "O" ring for V.I.R. expansion valve.

Part No. 923736 25 Green

"O" ring for Ford compressors and Chrysler evaporator core suction plate.

Part No. 923734 25 Green

"O" ring for Harrison (Frigidaire) compressor seat.

O-RINGS WITH OVAL CROSS-SECTION

Part No. 923714 25 Green

"O" ring for (oval) for 1991-85 Ford FS-6 and Ford Nippondenso compressors.

Part No. 923713 25 Green

"O" ring for (oval) for discharge and suction ports on Harrison (Frigidaire) compressors.

SQUARE CUT O-RINGS (HIGH TEMPERATURE)

Part No. 923715 25 Green

Square-cut for York mini compressor.

SQUARE CUT O-RINGS (TEFLON)

Part No. 923192 50 Teflon

Teflon seal for rotolock fittings on Tecumseh and York compressors.

SQUARE CUT O-RINGS (LOW TEMPERATURE)

Part No. 923194 50 Black

Square-cut seal for Chrysler discharge lines and flange type hose fittings on Tecumseh and York compressors.

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O-RING INTERCHANGE

O-RINGS	
PART NUMBER	DESCRIPTION
923779	GM capillary tube o-ring
923880	Ford combination valve
	Liquid bleed tube connection
	Nissan #6 hose/expansion valve/capillary tube
	V.I.R. liquid bleed line
923737	Ford combination valve liquid bleed tube connection o-ring
	5mm for Nissan #6 hose fitting/expansion valve/
	capillary tube o-ring
	V.I.R. liquid bleed line o-ring
923710	Matsushita FX105V rear housing o-ring
	Sanden TR70 oil drain bolt o-ring
	Inner cap seal ring for low side (1/4") service valve cap
923738	6mm for #8 hose fitting, drier seal
923879	Metric hose and drier, Mitsubishi FX 105V rear housing,
	Sanden TR70 oil drain bolt
923740	Toyota/Honda/Volvo #5 hose/Honda Manifold
923884	Metric - Asian Imports
923854	Ford/GM orifice tube
923780	GM oil tube and filler bolt o-ring
	14mm & 16mm threaded fittings
923789	Ford combination valve STV manifold port,
	7mm metric hose fitting
923739	Ford/GM orifice tube o-ring
	GM DA6/HR6/HR6HE discharge crossover o-ring
	Mitsubishi FX80/FX105V head bolt o-ring
	7mm for liquid line seal
923620	Chrysler springlock o-ring
	OEM #'s 4798675, 4882139, 4723019, 4720749
923878	Metric - ***"CAPTIVE"*** "O" ring - Calsonic, Honda, Nissan, Toyota
923716	#6 coupling seal - oversize
923869	Metric - Imports
923775	#6 hose fitting o-ring
	Diesel Kiki DKS13G/DKS15BH/DKS15CH oil plug o-ring
	Ford expansion valve seal
	Ford combination valve schrader fitting o-ring
	Ford #6 springlock fitting o-ring (use HNBR only)
	Nissan #10 hose fitting/drier o-ring
	V.I.R. pick-up tube/condenser line o-ring
	Volvo #6 hose
923782	Ford combination valve evaporator manifold oil port o-ring
	Ford expansion valve o-ring
	GM #6 ***"CAPTURED"*** fitting o-ring
923741	Toyota hose
923861	Ford 12mm switchport - metric (cycling pressure switch)
923781	#6 ATCO compression fitting o-ring
	Chrysler 6C17 large control valve o-ring (inner)
	Chrysler 6C17 pressure relief valve o-ring
	Ford clutch cycling pressure switch o-ring
	GM A6/R4 pressure relief valve o-ring
	GM V5 control valve o-ring (inside)
	Mitsubishi FX105V control valve o-ring (inner)
	Sanden SD505/SD507/SD508/SD510
	oil plug/service port o-ring
	Toyota pressure switch o-ring
	York 206/210 oil plug o-ring
	Volvo pressure switch
923711	GM #8 "dual" o-ring (1/2")
923742	Toyota/Honda manifold Honda hose
923776	#8 hose fitting o-ring
923666	GM V5 control valve o-ring (inside center)
	Ford #8 springlock fitting o-ring (use HNBR only)
	Nissan #12 hose fitting o-ring
	Nissan condenser discharge line o-ring
	Sanden TR70 discharge port o-ring
	Toyota discharge line o-ring
	V.I.R. evaporator inlet line connection o-ring
	Volvo #8 hose
923717	#8 coupling hose - oversize
923873	GM & Asian Imports
923732	Chrysler 10.5mm springlock fitting
923872	Metric - Imports
923871	Diesel Kiki DKS16H oil fill plug
	Hitachi A5000/MJS170 suction/discharge valve
923727	Chrysler 6C17 large control valve o-ring (outer)
	GM #8 ***"CAPTURED"*** fitting o-ring
923712	GM #10 "dual" o-ring (5/8")
923876	#10 metric - dual o-ring
923743	Toyota/Honda manifold Toyota hose

O-RINGS	
PART NUMBER	DESCRIPTION
923720	ATCO #8 compression fitting o-ring
	Mitsubishi FX105V control valve o-ring (center)
923718	#10 coupling seal - oversize
923866	Use with Chrysler gasket #923856
923783	Nissan condenser liquid line o-ring
	V.I.R. sightglass o-ring
	Mitsubishi FX80 discharge port o-ring
923777	#10 hose fitting o-ring
	Ford #10 springlock fitting o-ring (use HNBR only)
	Nippondenso TV10CA sensor block o-ring
	Nissan evaporator suction line o-ring
	Sanden TR70 suction port o-ring
	York 210/Tecumseh HG850/1000 turbo valve o-ring
	Toyota suction line o-ring
	Volvo #10 hose
923852	Fits 2000/Up GM
923882	Metric - Imports
923855	GM & Asian Imports
923744	Honda manifold
923867	Use with Chrysler gasket #923859
923728	GM #10 ***"CAPTURED"*** fitting o-ring
	Matsushita S1150X3 carbon shaft seal o-ring
923784	Chrysler A590/C171 carbon shaft seal o-ring
	Diesel Kiki DKS13G carbon shaft seal o-ring
	Ford FS6 carbon shaft seal o-ring
	GM A6/R4 carbon shaft seal o-ring
	GM #12 ***"CAPTURED"*** fitting o-ring
	Hitachi A500 vibration damper o-ring
	Nihon DKV14C carbon seal o-ring
	Nippondenso 6E171/6E171A/6P127A/6P127B/
	6P134/6P148/10P08E/10P13/10O15/10P17/
	10PA15/10PA17 carbon shaft seal o-ring
	Mitsubishi FX80 suction port o-ring
923733	Chrysler 13.5mm springlock fitting
	Behr Bosch metal shaft seal seat o-ring
	GM threaded conversion o-ring
	Keihin 150L/150R metal shaft seal seat o-ring
	Nihon DKV14B metal shaft seal seat o-ring
923863	Metric ***"CAPTIVE"*** o-ring - Nissan, Calsonic, Honda
923874	Metric - Asian Imports
923870	Nippondenso TV10CA carbon seal
923868	Nissan compressor discharge flange
923721	ATCO #10 compression fitting o-ring
	Chrysler 6C17 small control valve o-ring (outer)
	GM #12 fitting o-ring
	GM #12 "dual" fitting o-ring
	Matsushita NL1300AE4 suction/discharge o-ring
	Mitsubishi FX105V control valve o-ring (outer)
	Nissan suction/discharge o-ring
	(York reciprocating compressor)
923864	Metric ***"CAPTIVE"*** o-ring - Nippondenso compressor -
	Nissan, Calsonic, Honda
923785	Diesel Kiki DKS16H carbon shaft seal o-ring
	Hitachi MJ110 (small & large bore)/MJ130/MJ167/
	SWP123/SWP167 service valve o-ring
	Keihin 150L/150R carbon shaft seal/suction port o-ring
	Mitsubishi KX105V sensor o-ring
	Sanden TR90 discharge port o-ring
	Sanden pad mount discharge port o-ring
	Aerostar quick disconnect heater fitting
923719	#12 coupling hose - oversize
923875	Metric - Chrysler & Asian Imports
923778	#12 hose fitting o-ring
	Ford #12 springlock fitting o-ring (use HNBR only)
	GM V5 control valve o-ring (outside center)
	V.I.R. expansion valve (lower)
	V.I.R. evaporator outlet o-ring
	V.I.R. compressor suction line connection o-ring
	Volvo #12 hose
923862	Metric 16.9mm Nippondenso compressor
923881	Metric - Asian - compressor manifold
923619	Chrysler springlock kit o-ring
	OEM #4746781 (kit)
923729	Diesel Kiki DKS15H/DKS15CH
	discharge port o-ring
	GM V5 control valve o-ring (outside)
	Behr Bosch carbon shaft seal o-ring

(Continued on next page)

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O-RING INTERCHANGE and WASHER KITS

O-RINGS (CONTINUED)	
PART NUMBER	DESCRIPTION
	Nihon DKV14B carbon shaft seal o-ring
	Sanden TR105 discharge port o-ring
923735	Chrysler expansion valve o-ring
923886	Diesel Kiki DKS15BH/DKS15CH discharge port
	GM V5 control valve (outside)
	Behr Bosch carbon shaft steel
	Nihon DKV14B carbon shaft seal
	Sanden TR105 discharge port
923722	ATCO #12 compression fitting o-ring
	Chrysler 6C17 large control valve seat o-ring
923788	Chrysler A590/C171 suction/discharge port o-ring
	Ford FS6 suction/discharge port o-ring
	Nippondenso 6P127A/6P127B/6E171/6E171A/
	6P134/10P08E/10P13/10P15 suction/discharge port o-ring
923730	Hitachi SWP123/SWP167 service port valve o-ring
	Matsushita NL1300AE4/S1150X3 metal shaft seal seat o-ring
	Nippondenso 6P148 suction/discharge port o-ring
	Sanden TR90 suction port o-ring
	Sanden pad mount suction o-ring
	Mitsubishi FX80 lip seal outer o-ring
	Aerostar quick disconnect heater fitting
923853	Fits 2000/Up GM
923745	Chrysler springlock kit o-ring OEM: 4746781 (kit)
	Toyota/Honda manifold
923887	Metric - Imports
923865	Metric 19.8mm, diesel Kiki
923723	Chrysler EPR-ETR o-ring
	Ford combination valve STV o-ring
	Ford expansion valve o-ring
923786	Diesel Kiki DKS15BH/DKS15CH/DKS13G suction port o-ring
	Ford combination valve evaporator manifold
	to STV manifold o-ring
	Ford expansion valve o-ring
	Nihon DKV14C small shaft seal seat o-ring
	Sanden SD505/SD507 (mini)/TR70 metal shaft seal seat o-ring
	Sanden TR105 suction port o-ring

O-RINGS (CONTINUED)	
PART NUMBER	DESCRIPTION
923731	Chrysler 6C17 switch port o-ring
	GM A6/DA6/HR6/HR6HE/R4/V5 superheat/
	pressure switch port o-ring
	GM A6 superheat/pressure switch threaded
	conversion internal o-ring
	Sanden SD708/SD709 metal shaft seal seat o-ring
	Seiko Seike SS170PSS rotor housing o-ring (front & rear)
923787	Chrysler 6C17 lip seal o-ring
	GM A6/DA6/HR6/HR6HE/R4/V5 suction/discharge port o-ring
	Nippondenso 10P08E/10PA15/10PA17/10PA20 lip seal o-ring
	Nissan hose manifold to York rotary compressor o-ring
	Seiko Seike SS170PSS suction/discharge port o-ring
923877	Sanden shaft seal seat
923888	Metric - Imports
923724	GM threaded switch conversion “CAPTIVE” o-ring
	V.I.R. expansion valve o-ring (upper & center)
923736	Chrysler expansion valve o-ring
	GM R4 suction/discharge port o-ring (optional)
923734	GM shaft seal seat/lip seal o-ring
	Diesel Kiki DKS16H metal shaft seal seat o-ring
	O-RINGS WITH OVAL CROSS-SECTION
923714	Ford FS6/FX15 suction/discharge port o-ring
923713	GM R4/DA6/HR6/HR6HE/V5 suction/discharge port o-ring
	SQUARE-CUT O-RINGS - LOW TEMPERATURE
923194	York 210/Tecumseh HG500/HG850/1000 flange seal
	SQUARE-CUT O-RINGS - HIGH TEMPERATURE
923715	York/Tecumseh turbo valve seal - R134a
	SQUARE-CUT TEFLON O-RINGS
923192	York 206/210/Tecumseh HG500, HG850, 1000
	Rotolock service valve seal

GM COMPRESSOR SEALING WASHER KITS

Part No. 923442

1993-92 GM w/3/4” I.D. suction port
Kit includes:
1 ea. 5/8” I.D. “thin” sealing washer (discharge port) (silver)
1 ea. 3/4” I.D. “thin” sealing washer (suction port) (silver)

Part No. 923444

1993-92 GM w/5/8” I.D. suction port
1991 Cavalier & Sunbird
1990-3/4 Sunbird (2.0 T.B.I.)
Kit includes:
2 ea. 5/8” I.D. “thin” sealing washers (silver)

Part No. 923445

1991-74 GM except: 1991-88 Regal (w/V-5), Lumina, Cutlass & Grand Prix; 1991 Cavalier & Sunbird; 1990-3/4 Sunbird (2.0 T.B.I.)
Kit includes:
2 ea. 5/8” I.D. “thick” sealing washers (black)

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WASHERS/PILOT INSERTS, WASHER/GASKETS and SPRINGS

GM SEALING WASHER/PILOT INSERTS

Part No. 923424 5

5/8" I.D. “thick”
GM Sealing Washer (black)

Part No. 923425 5

3/4" I.D. “thin”
GM Sealing Washer (silver)

Part No. 923426 5

5/8" I.D. “thin”
GM Sealing Washer (silver)

Part No. 923427 5

5/8" I.D. "thick"
GM Sealing Washer (green)

Part No. 923428 5

5/8" I.D.
"thick"
GM Sealing Washer (red)

Part No. 923429 5

5/8" I.D.
"thick"
GM Sealing Washer (yellow)

Part No. 923430 5

5/8" I.D.
Small
GM Sealing Washer
1997-96 Chevy S, T /
GMC C, K Truck Series

Part No. 923431 5

GM Long Manifold
Pilot Washer Insert

Part No. 923432 5

GM Short Manifold
Pilot Washer Insert
(1991-88 Specific)

Part No. 923423 2

Adapter Block Bolt

GM “DUAL O-RING” LINE FITTING WASHERS/GASKETS

Part No. 923344 (10)

1/2” metal
No. 8 fitting

Part No. 923345 (10)

5/8” metal
No. 10 fitting

Part No. 923346 (10)

3/4” metal
No. 12 fitting

FORD SPRINGLOCK RETAINING SPRINGS

Part No. 923446 (12)

.Garter spring for Ford 3/8”
I.D. springlock couplers.

Part No. 923447 (12)

Garter spring for Ford 1/2”
I.D. springlock couplers.

Part No. 923448 (12)

Garter spring for Ford 5/8”
I.D. springlock couplers.

Part No. 923449 (12)

Garter spring for Ford 3/4”
I.D. springlock couplers.

GM SEALING WASHER & INSERTS

Part No. 923040
36 pieces • 9 items • 12030 plastic tray

923424	**923427**	**923430**
923425	**923428**	**923431**
923426	**923429**	**923432**

Numbers in assortment

For all 1988 and newer GM compressors.

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ORIFICE TUBES

ORIFICE TUBES

- **Offers most complete coverage.**
- **Includes all orifice tubes except the PPOT, number 923414.**

Part No. 923050
42 pieces • 14 items • 12043 plastic tray

923324	**923333**	**923416**	**923672**	**923675**
923331	**923343**	**923670**	**923673**	**923676**
923332	**923415**	**923671**	**923674**	

Numbers in assortment

PART		APPLICATION	OE# GM	DELCO	COLOR	ORIFICE SIZE
923324	12	GM (At Evaporator) Audi Jaguar, Volvo Opel/Vauxhall Rolls Royce	3033879 3033919 302-272-679	15-5151 15-5611	White or Natural	.072
923672	3	GM (At Condenser)	3096068	15-5378	Black/ White or Red/ White	.072 T-Top
923415	3	GM (At Condenser) 1997/Up Cadillac 1996/Up GMC C, K Pickups, Tahoe, Yukon/Suburban	52477004	15-5612	Yellow/ White or Red/ White	.062 T-Top
923416	3	GM (At Condenser) 1998/Up Geo Prizm w/orifice tube system	52476901 52486385	15-31134	Orange/ White	.057 T-Top
923674	3	GM	25671803	15-5653	Yellow/ White	.062 No Tabs
923333	3	GM Volvo	1324829-9 52473660 52460909	15-3079 15-30973	Yellow/ White	.062 With Tabs

PART		APPLICATION	OE# FORD	MOTORCRAFT	COLOR	
923343	12	Ford Hyundai Nissan Quest	E0VY-19D990-A E1FZ-19D990-A F5SZ-19D990AB F3XY-19D990-A	YG-345 YG-322	Blue or Black	.067
923671	3	Ford	E69Z-19D990-A F5UZ-19D990AB F4UZ-19D990-A	YG-346 YG-321	Red	.062
923331	3	Ford	F42Z-19D990-A F09Z-19D990-A E69Z-19D990-B F52Z-19D990AB	YG-319 YG-347	Green	.052
923673	3	Ford	E8TZ-19D990-A E8UZ-19D990-A F5DZ-19D990AB F2DZ-19D990-A	YG-343 YG-323	Orange	.057
923670	3	Ford	E69Z-19D990-B F09Z-19D990-A F39Z-19D990A	YG-320	Brown	.047
923676	3	Ford	XC4Z-19D990-AA	YG-380	Black/ White	.072

PART		APPLICATION	OE# CHRYSLER	COLOR	
923332	3	Chrysler Jeep Eagle Dodge	36002432 55036182	Purple	.062 T-Top
923675	3	Audi/VW	443-271-191A	Gray/ White	.072

L17

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ORIFICE TUBES

SMART VOV™

VARIABLE ORIFICE VALVE

Drop-in replacement for ineffective fixed orifice tube (no modifications required)

For R-12 & R134a A/C Systems

Complete coverage with only two numbers

Now your customer can have:
- **5° - 10°F colder air (at hot idle)**
- **Much improved performance when converting from R12 to R-134a**
- **Reduced compressor load, improved city fuel economy & emissions**
- **Extended compressor life**

- **The Smart VOV is a new refrigerant expansion device that substantially increases air conditioning cooling at idle and city traffic conditions.**
- **It is a self-contained "drop-in" replacement for fixed orifice tubes; it creates colder discharge air temperatures by automatically reducing the orifice area at low compressor speeds such as when idling or driving in city traffic.**
- **Test vehicles equipped with Smart VOV have demonstrated excellent performance, outstanding reliability, and extended compressor life in over one million miles of severe duty desert testing.**

SMART VOV Features:

Increased A/C Cooling
- **Up to 10°F colder air at idle**
- **Cooler interior in city traffic**
- **For R-12 and R134a systems**

High Quality
- **Precision metering system**
- **Engineered for long life**
- **OEM proven materials**

Improved Operation
- **Pressure regulation**
- **Quick response**
- **Sensitive to flow and quality**

Many Applications
- **OEM CCOT systems**
- **Alternative to TXV**
- **R12 to R134a conversions**

MAKE	ORIFICE TUBE COLOR	AUTOMAKER'S OEM PART #	FOUR SEASONS FOT ORIFICE	PART NO. REPLACE with SMART VOV	FOOT NOTES
Audi	White or Gray	302-272-679	38623	**1502002**	
Chry/Jeep/Eagle	Purple	36002432, 55036182	38641	**1502004**	1
Ford/Lincoln/	Blue or Black	E0VY-19D990-A, E1FZ-19D990-A	38621	**1502002**	1
Mercury		F3XY-19D990-A, YG-322			
	Red	E69Z-19D990-A, F4UZ-19D990-A	38635	**1502002**	1
		YG-321			
	Orange	E8TZ-19D990-A, E8UZ-19D990-A	38639	**1502002**	1
		F2DZ-19D990-A, YG-323			
	Brown or	F39Z-19D990-A, FD92-19D990-A	38640	**1502002**	1
	Green	E69Z-19D990-A, YG-319, YG-320			
Ford Mondeo (U.K)	Red	--	38635	**1502002**	1
General Motors	White	3033879, 3033919, 52453930	38623	**1502002**	
		15-5151, 15-5611			
	Red/White or	3096068	38638	**1502004**	1
	Black/White	15-5378			
	Yellow/White (Evap. Mounted)	52460909, 15-30791	38642	**1502002**	
	Yellow/White (Cond. Mounted)	52477004, 15-5612	--	**1502004**	
GM Opel	White (GM)	52400909, 3033879	38623	**1502002**	
Hyundai	Orange (Ford)	--	38639	**1502002**	1
Jaguar	White (GM)	--	38623	**1502002**	
Mazda	Red (Ford)	ZZMO-61-179	38635	**1502002**	1
Nissan	Blue or Black (Ford)	92200-0B00	38621	**1502002**	1
Rolls Royce	White (GM)	3033879	38635	**1502002**	
Volvo	White (GM) R12	--	38623	**1502002**	
	Yellow (Volvo) R134a	1324829-9	38642	**1502002**	
Volkswagen	Gray or White (GM)	--	38623	**1502002**	

FOOTNOTES:

1. Liquid line may contain non-replaceable original orifice tube – If this is the case, you can use commonly available inline orifice tube housing repair kit which will accept VOV (See Fixed Orifice Tube Replacement Kits, No.s 923335 or 923659 for instructions).

TECH TALK – how it works

The Smart VOV (variable orifice valve) uses system pressure and refrigerant flow to move a metering piston relative to a fixed opening in the sleeve. The piston movement is resisted by an attached spring. When idling at high ambient temperatures, the piston shifts to a smaller metering area similar to a TXV. This compensates for the reduced compressor output and increases the cooling performance. The Smart VOV also has a unique re-open feature which reduces compressor pressure for severe idle conditions. At highway speeds, the Smart VOV operates on a large orifice. The net result is better performance than a TXV without the complexity or reliability concerns. Unlike a TXV, which has constantly moving parts and small internal clearances, the Smart VOV is stationary during most operating conditions and has large internal clearances. It's low friction floating design insures smooth operation and extremely long life.

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PORT ADAPTERS, OEM PORTS, SWITCHES and ELECTRICAL ITEMS

FACTORY R134a SYSTEM PORTS

16mm x M15-1.0
Base Thread
Ford, GM, Chrysler, Jeep
Green HNBR O-Ring

Part No. 923417 3
(Aluminum)

13mm x M13-1.0
Base Thread
Ford, GM, Chrysler, Jeep
Green HNBR O-Ring

Part No. 923418 3
(Aluminum)

16mm x M12-1.5
Base Thread
Ford, GM Metric Primar
w/Green HNBR O-Ring
& Valve Core (Octagonal)

Part No. 923419 3
(Aluminum)

13mm
Ford Primary Seal Port
w/Green HNBR O-Ring
(Octagonal)

Part No. 923420 3
(Aluminum)

16mm x M12-1.5
Base Thread
Chrysler Primary Seal Port
w/Green HNBR O-Ring
(Octagonal)

Part No. 923421 3
(Aluminum)

Part No. 923609
8 pieces • 5 items • 12034 plastic tray

923417 **923419** **923421**
923418 **923420**

Numbers in assortment

COMPRESSOR CLUTCH CYCLING PRESSURE SWITCHES

GM

Part No. 923708

R134a
12mm Switchport
1997-94 GM

Part No. 923709

R134a
12mm Switchport
2000-94 GM

SWITCH INTERCHANGE

PART NUMBER	DESCRIPTION	REPLACES: OEM'S	4 SEASONS	MURRAY
923708	R134a GM Switch	--	36655	207655
923709	R134a GM Switch	--	36659	207654

GM LOW PRESSURE SWITCH PIGTAIL

Black Housing (1996-85)

Part No. 32347

GM A/C COMPRESSOR CLUTCH COIL CONNECTOR

GM A6/DA6/HR6/V5/HR6HE A/C Compressor Clutch Coil - Connector w/Diode and Spade Type Terminals Black Housing (1996-65)

Part No. 323697 2

GM A/C COMPRESSOR COIL CONNECTOR

GM A/C Compressor Coil Connector w/Diode and 8mm - Pin Type Coil - Gray Housing (1996-89)

Part No. 323782

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R134a RETROFIT CONVERSION FITTINGS

R134a SERVICE PORT ADAPTERS

- **R134a service port adapters will adapt existing R12 service ports to R134a service ports.**
- **Aluminum straight adapters are 8 sided, they do not include caps.**
- **Steel and brass straight adapters are 6 sided, and include caps.**
- **All 90° adapters include cap and valve.**

Straight Low Side 1/4" Flare (7/16 SAE)

(Aluminum) 923578 5
(Steel) 923548 5

Straight High Side 3/16" Flare (3/8 SAE)

(Aluminum) 923579 5
(Steel) 923549 5

Straight High Side 1/4" Flare (7/16 SAE)

(Aluminum) 923580 5
(Steel) 923550 5

Straight High Side 2 Piece GM

(Aluminum*) 923581 5

90° Low Side 1/4" Flare (7/16 SAE)

(Aluminum) 923583 5
(Steel) 923553 5

90° High Side 3/16" Flare (3/8 SAE)

(Aluminum) 923584 5
(Steel) 923554 5

90° High Side 1/4" Flare (7/16 SAE)

(Aluminum) 923585 5
(Steel) 923555 5

NOTE: Be sure to remove & discard valve core from R12 fitting whenever a 90° adapter or charging port extension hose is installed.

*** NOTE:** Not available in steel.

R12 SERVICE PORT TERMINATION CAPS

- **Use to permanently cap off R12 service ports that will not be used during future service on the retrofitted system.**

Low Side 1/4" Flare
High Side 1/4" Flare
(7/16" SAE)

Part No. 923576 (10)

High Side
3/16" Flare (3/8 SAE)

Part No. 923577 (10)

R134a SERVICE COUPLERS

14mm x 1.5 R134a Service Couplers

R134a Manual Coupler High Side

- **R134a manual coupler.**
- **14mm x 1.5 hose connection.**

Part No. 923804

R134a Manual Coupler Low Side

- **R134a manual coupler.**
- **14mm x 1.5 hose connection.**

Part No. 923805

R134a SERVICE PORT CAPS

- **Replacement caps for R134a service ports.**

Blue Low Side
13mm I.D.
8mm Threads
Fits 1/4" Flare
Low Side Fitting

Part No. 923571 (10)

Blue Low Side
15mm I.D.
8mm Threads

Part No. 923808 (10)

Red High Side
16mm I.D.
8mm Threads
Fits 3/16" Flare
High Side Fitting

Part No. 923572 (10)

Red High Side
16mm I.D.
10mm Threads
Fits 1/4" Flare
High Side Fitting

Part No. 923573 (10)

Red High Side
17mm I.D.
10mm Threads

Part No. 923809 (10)

Blue Low Side
9mm x 1.0 I.D.
Imports

Part No. 923812 (10)

Blue High Side
10mm x 1.25 I.D.
Imports

Part No. 923813 (10)

Black
1/2" Acme

Part No. 923814 (10)

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AIR CONDITIONING SERVICE ITEMS

UNIVERSAL HIGH SIDE IN-LINE FILTER

- **OEM tested and approved.**
- **Protect against costly compressor failure.**
- **Quick and easy leak free installation.**
- **Requires only 3" of straight refrigerant line.**
- **Tapered sealing sleeve provides 10 times the sealing area of older filter designs.**
- **Shorter overall filter length, with 3 times the capacity of older filter designs - reduces pressure and flow restrictions.**
- **Provides the reliable solution technicians have been asking for to reduce comebacks on compressor replacements - especially rear A/C systems.**
- **Single kit fits 5/16", 3/8", and 1/2" lines.**
- **Captures residual debris in the A/C system.**
- **Can be used as a line splice or repair device for damaged orifice tube holders.**
- **Incorporates any size orifice tube with included installation clip.**

Part No. 923816

Capture & Hold Damaging A/C System Debris Without Diminishing Performance

The receiver dehydrator, accumulator dehydrator, orifice tube, and thermostatic expansion valve were never designed to act like major systems filters. After a catastrophic compressor failure the Part No. 923816 Universal High Side In-Line Filter Kit provides a low cost insurance policy against further system damage.

ESTERCOOL™ OIL - R12 & R134a REFRIGERANT OIL

What type of oil is Estercool™?
Estercool™ Oil is an all natural Ester oil with additives that will enhance its lubricating ability and improve system performance. An oil that has proven itself in test after test.
Can Estercool™ Oil be used in an R12 system?
Yes you can use Estercool™ Oil in any R12 mobile air conditioning system or when retrofitting to R134a.
Does all the mineral oil have to be removed when retrofitting to R134a?
No, remove as much mineral oil as possible using A/C Flush Solvent. Any mineral oil remaining in the system is fully compatible with Estercool™ Oil.
Can Estercool™ Oil be used in systems containing PAG, mineral or paraffin oil?
Yes, Estercool™ can be used in any R12 or R134a mobile A/C system. If a system contains PAG, mineral, or paraffin oil and needs additional oil, Estercool™ can be added to the system. Estercool™ Oil will mix with any mobile A/C oil including mineral, paraffin or PAG oil. Not having the right oil or too much inventory is not a problem when Estercool™ Oil is used. The dealer needs stock only one oil, Estercool™ Oil.
Why should Estercool™ Oil be used in an R12 system?
Estercool™ Oil is a superior lubricant and it's ability to prevent corrosion, neutralize acid and encapsulate moisture enhances system performance. If during full R12 system service Estercool™ Oil is used in place of mineral oil, retrofit will be easier and less expensive at at later date because the correct lubricant is in the system.
Does the dealer need to stock 30 different oils?
No, Estercool™ Oil will replace all the other oils on the market for mobile A/C systems and provide superior performance.

How does Estercool™ refrigerant oil compare to PAG and synthetic Ester oil?

	ESTERCOOL OIL	PAG OIL	SYNTHETIC ESTER OIL
Environmentally friendly, biodegradable	Yes	No	No
Will neutralize acid in the system	Yes	No	No
Will encapsulate moisture in th system and render it harmless to the system	Yes	No	No
Will inhibit corrosion	Yes	No	No
Will prevent acid from forming in the system	Yes	No	No
Compatible with mineral oil and paraffin oil	Yes	No	Yes
Compatible with all components in an R12 system	Yes	No	Yes
Can be used in an R12 or R134a system	Yes	No	Yes
Can be added to any mobile A/C system with mineral, PAG, paraffin or Ester oil	Yes	No	?

ESTERCOOL™ OIL FOR R134a AND R12 SYSTEMS

One oil for all applications.

- **Compatible with Mineral, Ester, Paraffin & PAG Oil.**
- **Can be added to any existing R12 or R134a mobile A/C system with mineral, PAG, Paraffin, or Ester Oil.**
- **Use to replace PAG, Mineral or Paraffin Oil.**
- **Reduce inventory, keep only one A/C refrigerant oil in the shop.**
- **An all natural Ester oil, containing additives which lubricate and protect the system at the same time.**
- **Prevents acid from forming and inhibits corrosion.**
- **Compatible with all components in the system.**

Part No. 923474
Gallon size

Part No. 923473
Quart size

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AIR CONDITIONING SERVICE ITEMS

UNIVERSAL PAG OIL FOR BOTH R12 & R134a SYSTEMS

- Technologically advanced formula, designed to use one PAG for use in all mobile A/C systems.
- Can be used in R134a & R12 systems.
- Compatible with Mineral,Ester, Paraffin and other PAG oils.
- Meets or exceeds OEM specifications.

Part No. 923800
8 ounces

Part No. 923498
Quart size

Part No. 923499
Gallon size

SUPERCOOL PAG OILS

- "Double End Capped" 100% synthetic PAG lubricant with U/V Dye.
- Specially formulated for O.E. and aftermarket air conditioning systems using R-134a refrigerant.
- Contains conditioners, inhibitors and anti-wear agents for superior lubricity and compressor protection.
- Longer-lasting PAG resists sludge formation.
- More stable & less corrosive than other PAG's.
- Less tendency to absorb water than other PAG brands.
- U/V Dye can be detected using any standard black light.
- Will work in retrofitted R12 system.

PAG & U/V DYE "DOUBLE END CAPPED"

WC6 Compressor Chart for PAG Oil
Takes the mystery out of which viscosity PAG Oil to use in your compressor.

PART NUMBER	SIZE	PART NUMBER	SIZE	DESCRIPTION	
923104	32 oz.	923817	8 oz.	PAG 46 Vis. & U/V Dye	4
923106	32 oz.	923818	8 oz.	PAG 100 Vis. & U/V Dye	4
923108	32 oz.	923819	8 oz.	PAG 150 Vis. & U/V Dye	4

R134a OIL CHARGE

- Compatible with all R134a systems, OEM and Retrofit.
- Adds 2 oz. of lubricant and 2 oz. of R134a.

PAG OIL CHARGE
Part No. 923490 12
4 oz.

ESTER OIL CHARGE
Part No. 923477 12
4 oz.

WEIGHT GRADED PAG OIL

Quart size

R-134a PAG 46
Part No. 923406

R-134a PAG 100
Part No. 923407

O-RING LUBRICANT

- Lubricates o-rings for easier installation.
- Helps prevent leaks resulting from pinched o-rings.
- Convenient 4 ounce spray bottle.

Part No. 923481
4 fl. oz.

LEAK LOCK®

Leak Lock is a soft setting pipe joint compound for sealing threaded joints, flanged joints, gasket surfaces and mating surfaces.

- A resin based brushable paste which remains permanently flexible, adheres to internal surfaces and fills voids.
- Ideal for metal and plastic materials subject to extreme vibrations.
- Effective in temperatures from -200°F (-93°C) to 400°F (204°C), full vacuums and pressures to 10,000 PSI.

Leak Lock seals a broad range of chemicals including all refrigerants such as R12, R22, R502, R134a, etc., petroleum products, natural and manufactured gases, steam, water, air, etc. No other sealant offers the application range of **Leak Lock.**

Part No. 811153
1-1/3 oz. tube

Part No. 811154
4 oz. brush top plastic jar

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AIR CONDITIONING SERVICE ITEMS

PAG OIL with DYE

Contains universal fluorescent leak detection dye.

- **Compatible with R134a and R12.**
- **Compatible with Mineral, Ester, Paraffin & PAG Oil.**
- **Can be detected using any standard UV/ blue light (see section G16).**
- **Saves time over existing methods of dye detection.**

Part No. 923476
32 fl. oz. (1 quart)

DYESTERCOOL™ OIL

Contains universal fluorescent leak detection dye.

- **Compatible with R134a and R12.**
- **Compatible with Mineral, Ester, Paraffin & PAG Oil.**
- **Can be detected using any standard black light (see section G16).**
- **Saves time over existing methods of dye detection.**

Part No. 923478
32 fl. oz. (1 quart)

Part No. 923826
1 gallon

ATTENTION: A partial charge of DyEstercool™ Oil will not provide enough dye for proper fluorescing. Only a full system charge during normal service will provide maximum fluorescing for the mobile A/C system. A partial charge may be added to a system which already contains fluorescent dye.

UV LEAK DETECTOR

- **Pocket sized 6-1/4" Mini Worklight.**
- **Responds to all UV dyes & materials.**
- **Makes insepctions fast & accurate.**
- **6 true UV LED's.**
- **14 hr. runtime.**
- **3 AAA batteries included.**

Clip on back

Part No. 113928

DYE CHARGE

- **Fluorescent dye for R134a systems.**
- **R134a pressurized single use can.**

Part No. 923487 12

A/C UNIVERSAL FLUORESCENT LEAK DETECTION DYE

- **For use with R12 or R134a systems.**
- **Easy to use 1/4 ounce single system applications.**
- **1/4 ounce tubes are easier to use and less money.**
- **Cut the end of the tip and squeeze entire contents into dye injector or directly into a component being installed onto the system.**
- **Each tube will dye a system containing up to 12 ounces of refrigerant oil.**
- **Can be detected with any UV black light (see section G16).**

Part No. 923479

CONCENTRATED U/V DYE

AVAILABLE IN 2 TYPES OF DISPENSERS

- **8 oz. self measure bottle detects leaks in up to 64 vehicles.**
- **"New" easy to use squeeze tip bottle refills all types of dye cartridges.**

PART NUMBER	DESCRIPTION	
923115	8 oz. Self-Measure Bottle	6
923114	8 oz. Squeeze Tip Bottle	6

A/C SEAL LEAK STOP AEROSOL with U/V DYE

- **Specially formulated to stop air conditioning leaks on rubber hoses, gaskets, seals and ALL types of o-rings including HNBR, Nitrile and Neoprene.**
- **Does not contain polymers and will not block A/C system components.**
- **4 ounce can treats 1 vehicle.**
- **Charges into air conditioning system with standard R-134a valve and hose.**
- **Contains U/V Leak Detector Dye, 2 oz. Oil Charge and O-Ring Conditioner.**
- **Compatible with mineral, ester, and PAG oils.**
- **Contains 2 oz. of R-134a refrigerant.**

Re-usable R-134a Can Tap and Charging Hose

Part No. 923105

Part No. 923103
4 oz. net wt. (12)

A/C LEAK STOP - A/C Evaporator/Condenser Leak Stop

AVAILABLE IN 2 TYPES OF DISPENSERS

Safe for A/C Systems & Equipment

- **Stops small leaks in evaporators, condensers, hoses, gaskets & seals.**
- **Does not contain polymers. Will not harm A/C systems components, reclamation or recovery machines.**
- **2 ounce bottle treats 1 vehicle.**
- **Will not clog orifice tubes.**
- **Installs easily using and oil injector.**

PART NUMBER	DESCRIPTION
923122	2 oz. Super Leak Stop + U/V Dye Bottle
923128	Aerosol R-134a Super Leak Stop + U/V Dye

L17

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AIR CONDITIONING SERVICE ITEMS

SUPER SEAL
THE ULTIMATE LEAK REPAIR KIT

Permanently seals leaks in metal and rubber parts.

Seals leaks in condenser, evaporator, accumulator, compressor, connecting hoses, gaskets and o-rings.

R-134a SUPER SEAL

Treats one R-134a system under 4 tons.

Part No. 923092
3 oz. net wt.

- **Moisture activated formulation solidifies to form a patch to seal metal leaks.**
- **Moisture activated fluid remains a liquid lubricant in the system and seals only as it leaves the system with the refrigerant, at the leak point. When refrigerant leaks out, it chills the air causing condensation.**
  This moisture activates the fluid to self-seal.
- **Large leaks where the refrigerant charge is lost within two weeks may need to be manually repaired.**
- **Solves problem applications where fittings are positioned or angled and inaccessible.**
- **Includes recharge hose with quick-connect and can tap.**
- **Complete instructions enclosed.**
- **Super Seal is vacuum packed without refrigerant for use in any A/C system. With the A/C off, the vacuum pulls refrigerant into the can. Turn the A/C on and the suction pulls the Super Seal into the A/C system. May also be used with other refrigerants.**
- **Contains red dye to locate large leaks.**

FRESH N' KOOL

Controls evaporator odors.

- **Removes foul, musty odors from automobile & truck air conditioning systems.**
- **Stops odors caused by mildew and other odor producing organisms.**
- **Spray directly into fresh air intake for immediate results.**
- **Helps prevent reoccurrence of odors for up to a year.**

Part No. 211339
15 oz. Net Wt.

ODOR BUSTER AUTO FOGGER™

Odor Control - Quick & Easy

- **Doesn't just cover-up odors, it eliminates them at the source.**
- **Eliminates odors caused by mold, mildew, pets, tobacco smoke & more.**
- **Quick and easy to use.**
- **Ideal for all automotive A/C systems.**
- **New car scent.**

Part No. 923129
5 oz. (142g) Net Wt.

A Fresher Smelling Vehicle in 15 Minutes Guaranteed!

SUPER SEAL PREMIUM
THE PROFESSIONAL FORMULA

Permanently seals leaks in condenser, evaporator, accumulator, compressor, gaskets, o-rings, metal & rubber hoses.

Part No. 923091

For all mobile A/C systems R134A and R12/R22

An essential part of reconditioning used vehicles.

- **INCLUDES CLIK-LOCKS A/C TAMPER PROTECTION & I.D. SYSTEM.**
- **Easily installed in minutes.**
- **Professional strength formulation.**
- **Permanently seals leaks in evaporators and condensers.**
- **Effective in sealing multiple leaks.**
- **Continues to circulate in the A/C system to prevent future leaks.**
- **Ideal for preventative maintenance.**
- **Saves time and money and the environment from harmful refrigerant emissions.**
- **Improves A/C system efficiency.**
- **Contains no red dye.**

INSULATION TAPE

- **Insulates and seals. Sticks to all metal & rubber surfaces.**
- **Stops water drip.**
- **Won't dry out or crack.**

Part No. 923514
30 ft. roll

PERMAGUM

For sealing holes through firewall

- **Use around hoses going through the firewall.**
- **Eliminates seepage of engine heat and noise.**

Part No. 923515
30 ft. roll

SOLD IN 30 FT. ROLLS ONLY

MEASURING CUP

- **Measures the exact amount of oil for the system being serviced.**
- **Helps eliminate the chance of system failure due to incorrect oil charge.**
- **Made of durable plastic with a 16 oz. scale.**

Part No. 923460

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AIR CONDITIONING SERVICE ITEMS

SCHRADER SERVICE PORT CAPS

R12 Black

3/16" High Side

Part No. 923350 (12)

R12 Black

1/4" Low Side

Bridgeport Style

Part No. 923351 (12)

R134a Blue

13mm ID - 8mm Threads
Bridgeport Style

Part No. 923571 (10)

R134a Red

16mm ID - 8mm Threads
Bridgeport Style

Part No. 923572 (10)

R134a Blue

13mm ID - 10mm Threads
Aeroquip Style

Part No. 923570 (10)

R134a Red

16mm ID - 10mm Threads
Aeroquip Style

Part No. 923573 (10)

R134a Black

Low Side
14mm ID - 8mm
Extended Threads
Eaton Style

Part No. 923575 (10)

R134a Black

High Side
16mm ID - 10mm
Extended Threads
Eaton Style

Part No. 923574 (10)

NOTE: GM randomly uses Aeroquip, Bridgeport and Eaton valves on all late model production.

SCHRADER VALVE CORES

Standard

Part No. 923137 25

GM Large Bore

High Flow

Part No. 923543 (10)

GM/Ford/JRA Import

High Flow

Part No. 923582 (10)

GM/Peterbilt (M8)

Low Side

Part No. 923568 (10)

GM/Peterbilt (M10)

High Side

Part No. 923569 (10)

Volvo/Peugot

Part No. 923598 (10)

INSTALLATION & REMOVAL TOOL

Part No. 923450

GM/PETERBILT & M8/M10 LARGE BORE INSTALLATION & REMOVAL TOOL

Part No. 923524

SERVICE PORT CAP ASSORTMENT

- **Contains replacement caps for all Schrader service port styles for OE R12, OE R134a and Retrofit R134a systems.**

Part No. 923400
50 pieces • 8 items
12028 plastic tray

923350	923570	923572	923574
923351	923571	923573	923575

Numbers in assortment

SERVICE PORT VALVE CORE REPAIR

- **Replacements for frequently used Schrader valve cores.**
- **Includes replacement primary seal fitting 923581.**
- **Also includes standard valve core installation tool and removal tool.**

Part No. 923401
19 pieces • 5 items
12037 plastic tray

923137	923543	923582
923450	923581	

Numbers in assortment

DOMESTIC/IMPORT VALVE CORES

- **Contains all types of Schrader valve cores.**
- **Includes both standard & large bore valve core installation tool and removal tool.**

Part No. 923402
67 pieces • 8 items
12047 plastic tray

923137	923524	923568	923582
923450	923543	923569	923598

Numbers in assortment

L17

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AIR CONDITIONING SERVICE ITEMS

A/C SYSTEM GUARD™ Kit

Mechanics! Protect your work. Prevent unwanted, expensive comebacks. Until now technicians had no way of knowing if an air conditioning system has been tampered with after it leaves their shop.
What happens if the system is contaminated with an unknown alternative refrigerant?
Did someone else try to open the system? With **SYSTEM GUARD™** your work is protected.
SYSTEM GUARD™ seals A/C service ports to prevent tampering. Once removed, they cannot be replaced, and the service warranty becomes void.

Part No. 923599 10
Also available in value pack box of 50

Kit consists of:
Two System Guard Sleeves and one identification label.

3 SIMPLE STEPS

1. Slip "System Guard Seals" over both service ports.

2. Heat shrink in place with hot air gun.

3. Record unique serial number on label and work order. Apply label in engine compartment.

YOUR JOB IS PROTECTED!!!

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STORAGE UNITS

M10-STORAGE UNITS

Base Stand for, Storage Bins, Drawer Cabinets . . . M10-2
Cabinet Doors, 40 Bin . . . M10-2
Drawer Cabinets . . . M10-2
Drawer Cabinet Dividers . . . M10-2
Drill Cases . . . M10-11
Drill and Tap Dispensers . . . M10-12
Hand Cleaner Dispensers . . . M10-16
Hand Clean Pump . . . M10-16
Labels, Pressure Sensitive, Storage Bins & Drawer Cabinets . M10-8
MSDS Organizer
Right to Know Compliance Center . . M10-6
Rack and Binder . . . M10-6
Racks
2-4 Rod Wire Spool . . . M10-13
Aerosol Can . . . M10-13
Hose Clamp . . . M10-13
Threaded Rod . . . M10-13
Keystock . . . M10-13
Brake Line . . . M10-14
Fuel Line . . . M10-14
Cable Tie . . . M10-14
Wheel Dispenser . . . M10-14
Wiper Racks . . . M10-15
Key Rack . . . M10-16
Literature Storage . . . M10-16
Shelving
Literature Storage . . . M10-16
Storage Door Tray . . . M10-16
Storage Bins
Bulb Organizer . . . M10-15
Corrugated Bin Boxes . . . M10-9
Stackable Plastic . . . M10-9
Steel . . . M10-1
Storage Cabinets
E-Z View . . . M10-8
Hose/Cable . . . M10-7
Truck & Van Cabinets & Accessories . . . M10-17
Utility . . . M10-8
Welding . . . M10-13
Steel Storage Tray Accessories
4 Drawer Slide Rack . . . M10-5
6 Drawer Security Slide Rack . . . M10-5
Slide Rack Stands . . . M10-5
Storage Service Trays . . . M10-3-4
Adjustable, Steel . . . M10-3
Portable, Copolymer Resin . . . M10-3
Plastic Utility Boxes . . . M10-9
Steel . . . M10-4
Stowaway Orrganizer . . . M10-10

NOTES

STORAGE BINS

STORAGE BINS

Part No. 12004

Heavy duty units designed for storing a wide variety of small parts.

- **Storage bins are made from prime, cold rolled steel – Interlock and welded construction.**
- **Rust and acid resistant baked enamel finishes.**
- **One inch lip provides a convenient location for labels and keeps parts securely in place.**

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of BINS	BIN DEPTH	BIN HEIGHT	BIN WIDTH
12004*	23-5/8	23-5/8	4-3/4	**36**	3-3/4	3-3/4	3-7/8
12021†	35	21	12	**40**	12	4	4
12058	35	9-1/2	12	**16**	12	4-1/2	4
12068	35	17-1/2	12	**32**	12	4	4
12154	34	24	12	**12**	12	6-5/8	8
12155	34	20	12	**18**	12	6-3/8	5-3/8
12156	34	24	12	**24**	12	5-1/2	5-3/8
12157	35	21	12	**8**	12	8	8

*** Vertical dividers are removable, allowing creation of double width bins.**
† Doors available below.

Part No. 12021†

– 72 BIN CABINET –
ORDER
12021 and 12068

– 80 BIN CABINET –
ORDER TWO 12021
STORAGE BINS.

Part No. 12058

Part No. 12154

Part No. 12068

Part No. 12157

Part No. 12155

Part No. 12156

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DRAWER CABINETS and ACCESSORIES

DRAWER CABINETS

Designed as heavy duty units for storing a wide variety of small parts.

- **Drawer cabinets are made from prime, cold rolled steel – Interlock and welded construction.**
- **Rust and acid resistant baked enamel finishes.**
- **Exclusive "No Drag" drawers for smooth, easy travel.**
- **All drawers have "Positive Stop" mechanism which prevents drawers from being accidentally pulled out of the cabinet.**
- **All storage cabinets include drawer dividers (Part No. 12053.)**
- **All Drawer handles are molded as part of the drawer.**

Part No. 12020
36 dividers included

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of DRAWERS	DRAWER DEPTH	DRAWER HEIGHT	DRAWER WIDTH
12020	33-3/4	11	11-5/8	**18**	11-3/16	2-3/4	5-5/16
12064	17-1/8	11	11-5/8	**9**	11-3/16	2-3/4	5-5/16
12065	33-3/4	3-15/16	11-5/8	**6**	11-3/16	2-3/4	5-5/16
12067	33-3/4	7-3/8	11-5/8	**12**	11-3/16	2-3/4	5-5/16
12070	17-1/8	11	11-5/8	**6**	11-3/16	2-3/4	5-5/16
12074*	33-3/4	12-13/16	11-11/16	**18**	11-3/16	3-1/2	5-5/16

* **Drawers are 3/4'' higher than cabinet 12020.**

Part No. 12064
18 dividers included

Part No. 12065
12 dividers included

DRAWER CABINET DIVIDERS
To use when extra spaces are needed.

Part No. 12053 10

Part No. 12067
24 dividers included

Part No. 12070
12 dividers included

Part No. 12074*
36 dividers included

40 BIN CABINET DOORS

- **Hinged door set with padlock attachment.**
- **Attach with sheet metal screws or rivets.**
- **Use with 40 bin cabinet #12021.**
- **Padlock, screws and rivets not included.**

Part No. 12132

BASE STAND

- **Special multi-purpose base stand can be used with or without legs.**
- **3'' raise without legs, 5-3/4'' raise with short legs or 15" high with long legs.**

Part No. 12059
(short legs 5-3/4" high)

Part No. 12164
(long legs 15" high)

- **35" wide x 12" deep.**
- **Acid and rust resistant baked enamel finish.**
- **Solid top with raised lip corners so cabinet cannot slide off.**
- **Can be used with all storage bins and drawer cabinets.**

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STORAGE TRAYS

SERVICE TRAYS – ADJUSTABLE

Movable dividers for convenient creation of any size compartment needed.

Part No. 12090

Part No. 12051

PART NUMBER	SPECIFICATIONS INCHES WIDTH	HEIGHT	DEPTH	PART NO. DIVIDERS
12051	18	3	12	**12052**
12090*	18	3	12	**12091**
				12092

*** Completely adjustable, vertically and horizontally.**

ADDITIONAL DIVIDERS

PART NUMBER	TYPE OF DIVIDER	TYPE OF MATERIAL	FITS TRAY NO.	QTY
12052	Horizontal	Plastic	**12051**	10
12091	Horizontal	Plastic	**12090**	3
12092	Vertical	Plastic	**12090**	3

PORTABLE SERVICE TRAYS

These trays are made to be carried right to the job. You don't have to guess what you need or stuff your pockets with what you might use.

- **Luggage style handle for comfort.**
- **Fits all slide racks on page 14.**
- **Made from lightweight, tough copolymer resins that won't dent, rust, warp or break.**

Part No. 12109

Part No. 12111

Part No. 12151

Part No. 12110

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of COMPARTMENTS
12151	18	3	12	**21**
12109	18	3	12	**24**
12111*	18	3	12	**4 to 16**
12110*	18	3	12	**8 to 32**

*** Includes removable partitions to create compartments from 4 to 16 and 8 to 32.**

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STORAGE TRAYS

SERVICE TRAYS

Designed for storing and transporting a wide variety of small parts.

- Service trays are made from prime, cold rolled steel.
- Rust and acid resistant baked enamel finishes.
- Service trays have scoop bottom compartments for easy removal of small parts.
- Metal clasp holds lid down to provide transportability.

PART NUMBER	SPECIFICATIONS INCHES WIDTH	HEIGHT	DEPTH	NUMBER of COMPARTMENTS
12116	18	3	12	**6**
12061	18	3	12	**12**
12050	18	3	12	**16**
12071	18	3	12	**20**
12056*	18	3	12	**21**
12017	18	3	12	**24**
12062	18	3	12	**32**
12166	18	3	12	**6**

* 20 equal size compartments, with one large compartment for tools.

Part No. 12071

Part No. 12017

Part No. 12166

Part No. 12116

Part No. 12056

Part No. 12050

Part No. 12061

Part No. 12062

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STORAGE TRAY ACCESSORIES

4 DRAWER SLIDE RACKS

- Slide racks are made from prime, cold rolled steel.
- Rust and acid resistant baked enamel finishes.
- Each tray can hold 100 lbs. in the open position without tilting.
- Fits all service trays on the facing page.
- Part No. 12007 features "Triple Track" telescoping tracks for extra extension. Takes up less room but provides full opening. (Spacer saver)
- Part No. 12112 features heavy duty construction with metal riveted roller wheels built to handle the heaviest loads.
- Part No. 12131 to be used with 4 drawer racks listed below.
- Keeps drawers secure in service trucks.

LOCKING HINGES
For 4 drawer racks.
Locks drawers in place.

Part No. 12131

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of DRAWERS
12134	20-1/4	8-1/8	15-3/4	**2**
12007	20-5/16	15	12-1/2	**4**
12019	20-1/4	14-3/4	15-3/4	**4**
12112	20-7/16	14-3/4	16-3/4	**4**

6 DRAWER SECURITY SLIDE RACK

- Slide racks are made from prime, cold rolled steel.
- Rust and acid resistant baked enamel finishes.
- Each tray can hold 100 lbs. in the open position without tilting.
- Fits all service trays on the facing page.
- Not recommended for wall mounting.
- Door includes an exclusive keyed sliding lock system.
- Telescoping tracks.
- 24" H x 20-3/4" W x 14" D.
- Drawers not included.

Part No. 12135

SLIDE RACK STANDS

- Acid and rust resistant baked enamel finish.
- For convenient use of lower drawers.
- 1/2" lip at corners so cabinet will not slide off.
- Extra strong allows cabinet stacking.

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	USE with SLIDE RACK NO.
12152	20-5/16	5-3/4	12-1/2	**12007**
12115	20-5/16	15	12-1/2	**12007**
12153	20-1/4	5-3/4	15-3/4	**12019**
12060	20-1/4	15	15-3/4	**12019**
12113	20-7/16	15	16-3/4	**12112**

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RIGHT TO KNOW COMPLIANCE CENTER and ACCESSORIES

• For Compliance with OSHA's Hazard Communication Standard • Organize MSDS Sheets in One Place •

RIGHT TO KNOW COMPLIANCE CENTER

Economical and popular.

This compliance center contains
- **Red polystyrene board:**
  - **Holes for wall mounting**
  - **Bright safety colors**
  - **Storage rack for binder**
- **Yellow MSDS binder:**
  - **2" wide with 1-1/2" rings**
  - **Cover and spline marked MSDS**
- **Chain - 3 feet long**

Part No. RTK200
20" high x 14" wide x 4-1/2" deep

RIGHT TO KNOW RACK and BINDER

This compliance center contains
- **Same rack, binder and chain as RTK200 - without the red backboard:**
  - **Holes in rack for wall mounting**
  - **Rack holds binders up to 3-1/2" wide**

Part No. RTK600
12" high x 14" wide x 4-1/2" deep

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STORAGE CABINETS and ACCESSORIES

HOSE / CABLE CABINET

Used to store hose, cable, tubing, wire, etc.

- **Welded construction.**
- **Made from prime cold rolled steel.**
- **Rust resistant baked enamel finish.**
- **Ideal for storing hydraulic hose.**
- **Sections are adjustable.**
- **Includes 5 dividers.**
- **Shipped motor freight.**

Part No. 12150
Cabinet size
27-3/4" H x 36" W x 20" D
Weights 70 lbs.

PRESSURE SENSITIVE, EASY PEEL LABELS

Used on storage bins & drawer cabinets

- **Coated paper resists dirt and oil.**
- **All labels are printed on coated stock.**

PART NUMBER	TYPE OF LABEL	PAPER COLOR
TYG13	Metric 8.8 Hardware Set (TYG55 Coarse & TYG56 Fine)	White
TYG14	Grade 5 Hardware Set (TYG51 USS & TYG52 SAE)	White
TYG15	Blank	Yellow
TYG35	PCV Valves	White
TYG39	Wheel Studs & Nuts	White
TYG51	Grade 5 USS Hardware	White
TYG52	Grade 5 SAE Hardware	White
TYG53	Grade 8 USS Hardware	Yellow
TYG54	Grade 8 SAE Hardware	Yellow
TYG55	Metric 8.8 Coarse	White
TYG56	Metric 8.8 Fine	White
TYG57	Metric 10.9 Coarse	Yellow
TYG59	Breather Filters	White
TYG63	Brass Fittings	Yellow
TYG67	Mini Bulbs	White
TYG69	Grade 5 USS Lg. Sizes	White
TYG70	Grade 8 USS Lg. Sizes	Yellow
TYG77	Drain Plugs	White
TYG78	Drain Plug Gaskets	White
TYG80	Grade 8 Hardware Set (TYG53 USS & TYG54 SAE)	Yellow

Label Sets are available for all assortments in Bins. To order use stock number with "BL" suffix (exp. BL501054).

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STORAGE CABINETS

E-Z VIEW STORAGE CABINETS

For storing a wide variety of small parts.

- Welded construction.
- Drawers are made of clear, break resistant high impact styrene.
- Exclusive "Non-Slip" feature.
- Wall mounting if desired.

Part No. 12055

Part No. 12054

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of DRAWERS	DRAWER DEPTH	DRAWER HEIGHT	DRAWER WIDTH
12054	21	25-3/8	6-3/8	**64**	5-1/2	1-7/8	2-7/8
12055	16-3/8	11	6-3/8	**20**	5-1/2	1-7/8	2-7/8

UTILITY CABINETS

Store and organize a variety of miscellaneous items.

- Cabinets are made from prime, cold rolled steel.
- Acid and rust resistant baked enamel finish.
- 12105 and 12106 cabinets feature two adjustable shelves and a locking hinged door.
- 12014 cabinet features double doors with lock and two keys (ignition cabinet.)

Part No. 12105

Part No. 12106

Part No. 12014

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of SHELVES
12105	14	30	13	**2**
12106	20	33	14	**2**
12014	26-1/2	30	9	**5**

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STORAGE BINS and CONTAINERS

STACKABLE PLASTIC BINS

Heavy duty units designed for storing a wide variety of small parts.

- Extra-wide stacking ledge assures stability and allows higher stacking.
- Anti-slide stop prevents stacked bins from shifting forward.
- Large label slot for easy labeling and relabeling.
- Curved bottom at front of each bin allows easy retrieval of small parts.

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	LENGTH	COLOR
12073	8	7	11	Yellow

CORRUGATED BIN BOXES

- 200 lb. test corrugated cardboard construction.
- Designed to stretch your shelving space.
- White exterior.
- Easily labeled or marked.
- Assembly required.

PART NUMBER	SPECIFICATIONS INCHES WIDTH	HEIGHT	LENGTH	QTY
12136	2	4	12	25
12137	4	4	12	25
12138	8	4	12	25

PART NUMBER	SPECIFICATIONS INCHES WIDTH	HEIGHT	LENGTH	QTY
12139	4	4	18	25
12140	8	4	18	25

STORAGE CONTAINER

- Excellent solution for stocking transmission filter kits and other bulky items.
- Straight walls allow for efficient use of space.
- Hand holes on all four sides.
- High density polyethylene for rigidity, strength, durability.
- Mesh side and base allow high visibility and won't trap dirt.
- **Only available in grey.**

PART NUMBER	SPECIFICATIONS INCHES WIDTH	LENGTH	HEIGHT
12127	24	16	12

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PLASTIC STORAGE TRAYS and ORGANIZER

THE STOWAWAY ORGANIZER

- Made from prime cold rolled steel.
- Durable gray baked enamel finish.
- Versatile 3 way use - key hole slots for wall mounting, bolt holes for stacking and handle for carrying.
- Holds 5 plastic trays (as noted below).
- 2 sizes available.

Part No. 12141
13-1/2" W x 9-1/8" D x 13-1/4" H

Part No. 12142
11-1/4" W x 6-3/4" D x 10-3/4" H

PLASTIC UTILITY BOXES

*Polypropylene - Heavy Duty

- Handy, inexpensive and durable.
- Transparent or translucent plastic with hinged lid and snap-closure.
- Sizes and compartments for any use: storing hardware, office and hobby supplies, electronic and precision parts and much more.

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DRILL CASES

METRIC DRILL CASE

- The best protection for your valuable drills.
- High impact steel.
- Space for 11 metric drills.
- 1mm to 6mm by .50mm increments.
- Drill sizes imprinted for easy identification.

Part No. 12093

METRIC DRILL CASE

- Ideal for keeping your drills safe and handy.
- High impact steel.
- Space for 19 metric drills.
- 1mm to 10mm by .50mm increments.
- Drill sizes imprinted for easy identification.

Part No. 12094

TAP AND DRILL CASE

- The best drill and tap case for protecting your valuable tools.
- High impact steel.
- Space for 9 drills and 9 taps.
- Sizes 6-32 to 1/2-13 coarse thread.
- Drill and tap sizes imprinted for easy identification.

Part No. 12107

TAP AND DRILL CASE

- You'll save time when your drills are organized in this handy steel case.
- High impact steel.
- Space for 9 drills and 9 taps.
- Sizes 6-40 to 1/2-20 fine thread.
- Drill and tap sizes imprinted for easy identification.

Part No. 12108

INDUSTRIAL DRILL CABINET

- Space for 29 drills, 12 of each - 1/16" to 1/2" by 64ths.
- Heavy duty construction allows cabinets to be stacked on each other.

Part No. 12072
Cabinet Size:
14-1/2" long
x 7-1/4" high
x 7-1/4" deep.

FRACTIONAL DRILL CASE

- Space for 13 fractional drills - 1/16" to 1/2" by 64ths.
- Sizes imprinted on case for easy
- identification.

Part No. 12095

FRACTIONAL DRILL CASE

- Space for 15 fractional drills - 1/16" to 1/2" by 32nds.
- Sizes imprinted on case for easy identification.

Part No. 12096

FRACTIONAL DRILL CASE

- Space for 29 fractional drills - 1/16" to 1/2" by 64ths.
- Sizes imprinted on case for easy identification.

Part No. 12097

LETTER DRILL CASE

- Space for 26 letter drills - from A to Z.
- Sizes imprinted on case for easy identification.

Part No. 12098

NUMBER DRILL CASE

- Space for 60 number drills - from 1 to 60.
- Sizes imprinted on case for easy identification.

Part No. 12099

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DRILL and TAP DISPENSERS

1/2" REDUCED SHANK DRILL INDEX

- Space for 8 drills, sizes 9/16"-1" by 16ths.
- Sizes imprinted on case for easy identification.

Part No. 12148

LETTER DRILL DISPENSER

- For letter drills A to Z.
- Has 3 drawers.

Part No. 12085

MASTER COMBINATION DRILL INDEX

- Holds fractional drills 1/16" to 1/2" by 64ths.
- Wire gauge No. 1 to No. 60.
- Letter sizes A to Z.

Part No. 12082

NUMBER DRILL DISPENSER

- For number drills 1 to 60.
- Has 5 drawers.

Part No. 12084

MASTER TAP DISPENSER

For 1/4" to 1" Tap Sizes.

- Plastic dividers protect tap edges.
- Extra storage for drills, dies, etc.
- 14-1/2" x 7-1/4" x 7-1/4"

Part No. 12086

MASTER TAP DISPENSER

For 2-56 to 12-24 Tap Sizes.

- Plastic dividers protect tap edges.
- Extra storage for drills, dies, etc.
- 14-1/2" x 7-1/4" x 7-1/4"

Part No. 12087

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2 ROD WIRE SPOOL RACK

- Ideal for counter top use.
- Heavy duty metal construction.
- Will hold up to eight 100' spools.

Part No. 12002

Cabinet size: 26-1/8" wide x 17-7/8" high x 6" deep.

4 ROD WIRE SPOOL RACK

- Heavy duty metal construction.
- Stores spools up to 10" diameter.
- Spools load and unload easily.

Part No. 12057

Cabinet size: 26-1/8" wide x 37-1/8" high x 6" deep.

AEROSOL CAN RACK

- Heavy duty metal construction.
- Hang on wall or use on counter.
- 21-1/2 wide, 5-1/4 high, 3-1/8 deep.
- 6 compartments.

Part No. 12013

WELDING ROD CABINET

- Welded construction.
- Baked grey hammerstone enamel finish.
- **Cabinet Size:** 16-1/8" wide x 18-1/2" deep x 8-1/8" high.

Part No. 12078

MASTER HOSE CLAMP RACKS

- Durable heavy duty steel construction.
- Bench or wall mountable.
- Sign panel lists clamp diameters.
- **Rack size:** 23-1/4" wide x 16-1/8" high x 5-1/4" deep.

Contents not included with racks

PART NUMBER	HOSE CLAMP SIZES	NUMBER OF LOOPS
12124	#4 mini thru #36	10
12125	#40 thru #72	5

THREADED ROD RACK

- Heavy duty metal construction.
- Separates and protects threaded and unthreaded rod, key stock.
- 18 separate compartments.
- **Compartment size:** 2-1/16" square.

Part No. 12006

Cabinet size: 24-1/8" wide x 24" high x 6-7/8" deep.

KEYSTOCK RACK

- 10 compartments, holds keystock up to 3/4" x 12".
- Bench or wall mount.
- **Rack size:** 12-1/4" wide x 12" high x 6-1/4" deep.

Contents not included with rack

Part No. 812123

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RACKS

BRAKE LINE RACK

FRACTIONAL • DOMESTIC

- Sturdy metal construction
- Informative face plate tells about our "Safety Certified" hydraulic brake lines.
- 6 different lengths of 3 sizes – 18 total printed on the face plate.

Part No. 12011

FUEL LINE - VACUUM HOSE RACK

- Sturdy yet inexpensive.
- Durable, all metal, heavy duty construction.
- Hang on wall or place on counter or floor.
- Easy assembly - no tools needed.

Part No. 12010

BRAKE LINE RACK

METRIC • IMPORT

- Sturdy metal construction.
- Holds 7 lengths – 35 lines total.

Part No. 12015

CABLE TIE RACK

- Inventory can be taken at a quick glance, with the 5 compartment rack.
- Rack may hold up to 1000 cable ties.
- Wall mountable pre-drilled holes on 3 sides for ease of hanging.

Part No. 12180

BRAKE LINE RACK

GM 6mm

- Sturdy metal construction.
- 14 slots, holds 7 lengths, total 112.
- 14-3/4" long x 5-1/4" deep x 6" high.

Part No. 12165

WHEEL DISPENSER

- Holds 4-1/2" size cut-off wheels or grinding wheels.
- Take one out and the next one drops down.
- 16-1/8" H x 6-3/16" W x 5-3/16"D.
- Holds approx: 275 cut-off wheels or 60 grinding wheels

Part No. 12178

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RACKS and BULB STORAGE BIN

EXACT FIT® WIPER RACK

- 2' display (24" W x 11.5" H x 24" D).
- Easy to read application charts provide convenient access to important product information.
- 9 adjustable hooks.

Contents not included with rack

Part No. **12145**

RAINY DAY WIPER RACK

- 2' display holds up to 150 blades.
- Durable, easy to clean and maintain.
- Easily mounts to most pegboard fixtures.
- Display shipped without products & application guide or header card.
- Application guide available separately (PB37).
- Header card 2' available separately (12143).

Contents not included with rack

Part No. **12147**

BOSCH ROLLING DISPLAY WIPER RACK

- 2' rolling design.
- 3 bars with 10 hooks each will accommodate a total of 180 blades.
- Attractive molded styrene header.
- Sturdy base great for holding one gallon jugs of windshield washer solvent.

Part No. **12146**

WAGNER'S BULB STORAGE BIN MERCHANDISER

- New narrow profile design... less space with more inventory.
- Adjustable bin dividers... provide flexible storage capacity.
- Impact resistant... built tough for the most demanding environments.
- See through bins... easy product selection and inventory at-a-glance.
- All metal frame... adds strength and durability.
- Blue powder coating... for long-lasting good looks.
- Concealed storage area... offers extra space for additional inventory.
- Convenient installation... wall-mount or place on your workbench.

Order **Part No. 615301**
(19" wide x 26-3/4" high x 4" deep)

***Added Bonus: This rack includes (6) #9004 Bulbs *FREE* to help offset the cost of the rack.**

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HAND CLEANER DISPENSERS, SHELVING / STORAGE TRAYS and RACKS

CITRA-CLEAN PUMP

All natural, organic hand cleaner, with Di-Limonene

- **Fits Citra-Clean 1 gallon jugs.**
- **Stainless steel construction, withstands heavy industrial use jug after jug after jug. Will not fail like throw - away plastic pumps.**
- **Never buy another pump. Guaranteed for life when used with our brand Citra-Clean hand cleaner.**

Part No. 13188

WALL MOUNT DISPENSERS

- **Heavy duty pump assemblies can be used with Citra-Clean or E-Z clean hand cleaners.**
- **Pumps both pumice and non-pumice products.**
- **Fully guaranteed for 5 years.**

Part No. 13187
Fits 7 lb. can

Part No. 13186
Fits 4-1/2 lb. can

STORAGE DOOR TRAY

- **High quality, all steel storage door trays are designed specifically for use in outfitting trucks and vans.**
- **Storage door trays are perfect for plumbers, electricians, sign painters, service vehicles, anyone who works out of their truck or van.**
- **Ready to install.**
- **Trays come with lids.**

Part No. 12075
Tray Size:
21'' wide x 21'' high x 4-1/2'' deep.
3 door trays with 12 tray dividers.

LITERATURE STORAGE RACK

- **Our racks provide a convenient and compact way to store literature and still keep it readily accessible and visible.**
- **Storage literature racks are perfect for waiting rooms, and it can be used for parts booklets, wall charts, shop catalogs, invoices, etc.**
- **Keyhole slots are provided for wall mounting.**

Part No. 12076
Rack Size:
13-1/8'' wide x 26-1/4'' high x 2'' deep.
Opening: A = 12-1/8" wide,
B = 5/16" deep, C = 5-5/8" high
Number of pockets: 10

KEY RACK

- **28 hooks included.**
- **Free standing.**

Part No. 915001

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SPECIAL ORDER PRODUCTS

TRUCK and VAN CABINETS and ACCESSORIES

Part No. 12162

Part No. 12161

Part No. 12160

- Made from prime cold rolled steel.
- Welded construction.
- Part No. 12160 are ideal for large tools and bulky items.
- Part No. 12160 and 12161 come with lockable hinges to hold drawers in place in moving vehicles.
- Part No. 12161 comes with 81 adjustable dividers.
- Gray baked enamel finish.
- **ALLOW APPROXIMATELY 2 WEEKS FOR DELIVERY.**

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of DRAWERS	NUMBER OF DIVIDERS	WEIGHT LBS.
12160*	12-5/8	24-1/2	12-1/8	**4**	0	32
12161*	12-5/8	24-1/2	12-1/8	**9**	81	46
12162	Dividers for No. 12161					1

*** Padlock not included.**

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ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

A

A • A • A

3/8" DRIVE TIGHT GRIP ROUNDED BOLT & NUT REMOVER KITS D11-1
ABRASIVES/GRINDING
Bonded....D10A-11-13
Cut Off Wheels
Aluminum Oxide Metal D10A-13
Type 1....D10A-13
Depressed Center D10A-13
High Speed....D10A-13
Masonry....D10A-12
Grinding Wheels
Depressed Center D10A-11
Heavy Duty D10A-12
Mounted....D10A-12
Coated....D10A-5-10
3M Products
Roloc™
Brake Rotor Surfacing DiscsD10A-10
Grinding Discs D10A-10
Sanding Sheets....D10A-7-8
Stikit
Disc Pad D10A-7
Gold Disc Rolls....D10A-7
Green Disc Rolls....D10A-7
Cartridge Rolls D10A-9
Crocus Cloth Sheets....D10A-7
Emery
Cloth Sheets D10A-7
Cloth Utility Rolls D10A-7
E-Z Abrasive Flap Wheels D10A-6
Fastcut
Bolt On Grinding Discs D10A-8
Sanding Sheets D10A-7
Wet or Dry Sheets D10A-6
Fiber Discs D10A-10
Non Loading Sandpaper....D10A-7
Plumbers Rolls
E-Z Clean Cloth Roll....D10A-7
Grip-Kut Mesh Cloth Roll....D10A-7
Silicone Carbide
Screencloth....D10A-6
Assortment D10A-6
Dispenser Rolls D10A-6
Solid Rubber Drums....D10A-8
Spiral Bands....D10A-8
Trim-Kut Discs D10A-9
Twist-Lock Mini Grinding Discs..D10A-10
Zirconium
Blue Flash Flap Discs....D10A-5
Mini D10A-5
Twist-Lock Mini Flap Discs D10A-6
Grinder Brushes & Wheels....D10A-3
Miscellaneous D10A-16-17
3M Roloc™ Bristle Discs D10A-17
Bristle Discs & Brushes D10A-17
Bronze Wool D10A-16
Steel Wool....D10A-16
Non-Woven D10A-14-16
3M Products
Clean 'N Strip Discs....D10A-14
Flap Wheels
100% Non-Woven D10A-14
Interleaf....D10A-14
Gasket Cleaner....D10A-15
Strip-It Discs....D10A-16
Surface Conditioning Hand PadsD10A-16
Surface Preparation Discs D10A-14-15
Twist-Lock Disc Assortments....D10A-15
Steel/Nylon Brushes....D10A-2
Steel Wire Brushes & Wheels....D10A-1-3
ABSORBENT, INSTANT LIQUID & VOMIT..C14-6
ABSORBENT PADS D14-25
AC SENSOR....D11-14
AC SYSTEM GUARD™ KIT L17-22
ACETAMINOPHEN EXTRA-STRENGTH ...D14-23
ACID
Brush D14-7
Sprayer C14-8
ACORN NUTS, STEEL....A11-8

A

18-8 Stainless Steel....A13-8
A2 Stainless Steel....A16-16
ADAPTERS
Arbor D10C-40-41
Brake Line H15-5-6
Battery Terminals....E15-3-10
ADHESIVE NON-LEAD WHEEL WEIGHTS .H10-6
ADHESIVE WHEEL WEIGHT REMOVAL TOOL H10-6
ADHESIVES
3M Single Step Primer....C11-14
3M Super 77 ....C11-3
Brushable....C11-4
Cyanoacrylate....C11-4
Disc Brake Quiet....C11-14
Double-Bubble Packets C11-6
JB Kwik, JB Weld....C11-10
Epoxy Sticks C11-10
E-6000™ High Strength Synthetic....C11-2
Form-A-Gasket C11-3
Gasket....C11-1, 3-4, 12-13
Gorilla Glues C11-3
Gorilla Epoxy C11-10
Moulding....C11-14-15
Q-Bond Fast Bonding C11-2
Replacement Nozzles....C11-1
Seal-All - All Purpose....C11-3
Stainless Steel Epoxy C11-10
Superbond 8000 ....C11-9
Super Glue....C11-3
Super Glue Gel C11-4
Super Glue Remover C11-5
Super Weatherstrip....C11-14
Trim Adhesive....C11-14
ThreadLock....C11-8, 14
Tube-Grip™ Dispenser Handle C11-1
Vibra-Tite C11-4
ADHESIVES, ANAEROBIC
Flange Sealant....C11-14
Gasket Maker C11-13
High Strength, High Temp, Sleeve Retainer C11-7
High Strength Permanent Thread Lock....C11-7
High Strength Retaining Compound C11-7
Medium Strength Removable Thread Lock....C11-7
Medium Strength "Wicking Grade" Porosity Sealant Thread Lock....C11-7
ADJUSTABLE WRENCHES D11-5, 15
ADVIL TABLETS....D14-23
AEROSOL SPRAY GUN TRIGGER HANDLE, CAN-GUN....C14-8
AGRICULTURAL EQUIPMENT MAINTENANCE....A20-14
AIR BRAKE PARTS
3/8" Hose Repair Kit....B13-27
Fitting Inserts B13-24
Fittings B13-23-24
Hose Assemblies B13-27
Hose Support Clamps G15-27
Hose, Type B B13-28
Nylon Tubing....B13-30
Parts G15-27
Reusable Fittings B13-28
AIR CONDITIONING TRANS/FUEL DISCONNECT SET G16-11
AIR CONDITIONING PARTS....L17
Concentrated U/V Dye L17-19
Deodorizer....C12-13, L17-20
Diode/Adapter/Pigtails....L17-15
Dual O-Ring Fittings/Gaskets....L17-12
Dye Charge L17-19
Dyestercool™ Oil L17-19
Estercool™ Oil L17-17
R134a Oil Charge L17-18
Factory R134a System Ports L17-15
Fresh N' Kool....L17-20
Garter Springs....L17-12
Gaskets L17-3
In-Line Filter, Universal High Side....L17-17
Insulation Tape....L17-20
Leak Lock....L17-18

A

Leak Stop....L17-19-20
Measuring Cup....L17-20
Odor Buster Auto Fogger™....L17-20
O-Rings....L17-4-11
Lubricant L17-18
Orifice Tubes....L17-13-14
PAG Oil for R134a Systems....L17-18
PAG Oil w/Dye L17-19
Permagum....L17-20
Pigtails....G11-5, 7, L17-15
Pilot Inserts & Kits, GM L17-12
Pressure Cycling Switch....L17-15
R134A Retrofit Parts L17-16
R134a Oil Charge....L17-18
Relays/Switches....G12-4, L17-15
Schrader Service Port Caps....L17-21
Schrader Valve Cores L17-21
Sealing Washers & Kits, GM....L17-12
Seals L17-4-11
Service Couplers....L17-16
Service Port Adapters L17-16
Service Port Caps L17-16, 21
Service Ports....L17-15
Slim Line Washers L17-3
Smart VOV, Orifice Valve....L17-14
Springlock Repair Parts....L17-12
Square Cut O-Rings....L17-9
Super Seal....L17-20
System Guard™ Kit....L17-22
System Ports, Tools L17-16
Universal Fluorescent Leak Detector Dye....L17-19
Valve Cores & Kits L17-21
Valve Core Tools....L17-21
Weight Graded PAG Oil L17-18
AIRCRAFT CABLE....A20-6
Vinyl Coated....A20-6
AIR FRESHENERS C12-13
AIR GREASE GUN....G16-8
AIR HOSE B11-1
AIR HOSE SEPARATORS....G15-27
AIR JET DUST CLEANER C12-2
AIR SAW BLADES D10C-35
AIR TANK DRAIN VALVE G15-27
AIR TOOL CONDITIONER....C10-8
AIR TOOL LUBRICANT C10-7
AIR LINE
Chucks....B11-3
Couplers & Plugs....B11-5-9
Filter, 1/4" Standard B11-2
Pressure Gauge....B11-2
Regulator, 1/4" Standard....B11-2
ALARMS, BACK-UP....G15-20-22
ALKALINE DRAIN OPENER C14-7
ALL NATURAL INDUSTRIAL HAND CLEANER, WORX C12-5
ALL PURPOSE ADHESIVE - SEAL-ALL C11-3
ALL THREADED ROD A12-10
ALLEN KEYS D11-5-6
ALLIGATOR CLIPS....E12-20
ALTERNATING ALARM G15-21
ALUMINUM
AlumiBlast....C13-3
Blind Rivets....A19-1-2
Brazing Flux Powder....D13-10
Brightener Concentrate....C12-1
Cleaners C12-1
Epoxies....C11-6, 9-11
Foil Tape....D14-3
w/Butyl Rubber Liner....D14-3
Paint C13-3
Rivets A19-1-2
Silicone, RTV "Make-A-Gasket" C11-1, 12-13
Tubing & Cable Mounting Clips E12-17
AMALGAMATING WRAP D14-2
ANAEROBIC FLANGE SEALANT....C11-14
ANCHOR SHACKLE A20-6
ANCHORS
Anchors
Assortments....A21-1
Kits....A21-2
Nylon Drive Screw....A21-2
Nylon Screw A21-2

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

A

Ribbed Plastic....A21-2
Toggler® Toggle Bolt....A21-3
Uni-Tap....A21-3
Vinyl Screw....A21-2
Hollow Wall
Drive Grips....A21-4
E-Z Toggle....A21-5
Master Grips....A21-4
Rawl Legs™ Anchors....A21-5
Rawl Zip-It™ Anchors....A21-5
Super Toggler® (Toggler™)....A21-4
Toggle Wings & Bolts....A21-3-4
Toggler® Toggle Bolt....A21-3
Utility Hook....A21-5
Wall Dog....A21-4
Wall Grips....A21-4
Masonry
Double Expansion....A21-8
Drop-In....A21-8
Hangermate® Threaded Rod Anchoring System....A21-9
Lag Screw Shields....A21-8
Machine Screw....A21-8
Maxi-Stud....A21-7
Rawl Hammer Drive Pins....A21-6
Rawl Zamac "Nailin"....A21-6
Stud Bolt
Hex Nut Style....A21-8
Slotted Flat Head Style....A21-8
Tapcon®....A21-6
Titen™ HD Threaded....A21-7
Solid Wall Anchors
Alligator®....A21-5
ANCHORING SYSTEM, THREADED ROD..A21-9
ANTI-FOG SAFETY GLASSES....D14-21
ANTI-FREEZE, GAS LINE....C14-2
ANTI-FREEZE TESTER....G16-12
ANTI-RUST WITH WATER PUMP LUBE....C14-3
ANTI-SEIZE LUBRICANT
Copper....C10-11
General Purpose....C10-11
Never•Seez®....C10-12
Non Metallic....C10-12
Permatex®....C10-11
ANTI-SPATTER....D13-8
ANTI-SQUEAK DISC BRAKE COATING...C11-15
APRON, SHOP....D14-18
ARBOR ADAPTERS....D10A-1
ARBORS....D10C-40-41
ARM PROTECTORS, KEVLAR....D14-18
ASSAULT II
CRAWLING & FLYING INSECT KILLER....C14-1
ASSEMBLY
Fluid....C10-13
Grease....C10-13
ASSORTMENTS-SEE SPECIAL SECTION
AUTO BODY FASTENERS
Bolts
Body....J10-47-48
Bumper Bolts....J10-48
Flange....J10-47
License Plate Bolts, Nuts, Screws and Kits....J10-41-44
Machine Screw....J10-47
Miscellaneous
Grommets....J10-32-34, 38, 41
Nuts....J10-36, 49
Retainers & Clips....J10-37-38, 40
Sheet Metal Plugs....J10-41
Shims....J10-40
Nuts
Cage....J10-50
Expansion....J10-51-52
Hex....J10-49
License Plate....J10-41-42
Manifold....J10-49
Miscellaneous....J10-36, 40
Pal....J10-50-51
Push....J10-51
Speed
Extruded....J10-34-35, 50
Flat Type....J10-50
"U" & "J" Type....J10-35-36, 50
Thread Cutting....J10-50

A-B

Well Nuts....J10-51
Rivets
Blind, Nylon....J10-58, 61-62
Bumper....J10-57, 60
Miscellaneous....J10-62-63
Miscellaneous Special Applications....J10-57, 60-62
Riveting Tools....J10-58-59
Trim....J10-56, 60
Window, Glass and Door....J10-56, 60
Screws
Hex Head....J10-43-46
License Plate....J10-41-43
Machine....J10-42
Tapping....J10-43-45
Trim....J10-46
Miscellaneous....J10-44
Thread Repair
Clinch-Nuts®....J10-52
Mandrels and Nosepieces....J10-53
Rivet-Nut Blind Threaded Rivets....J10-53
Washers
Fender Washers....J10-49
Finishing Washers....J10-49
AUTO TRANS FILTER KITS....H18-1-9
AUTO TRANS SERVICE PARTS....H17-1-2
AUTOMOTIVE APPEARANCE PRODUCTS....D14-11
AUTOMOTIVE SERVICE TOOLS
Battery Service....G16-10-11
Brake Repair....G16-14-15
Electrical Service....G16-11
Engine Service....G16-12-13
Exhaust....G16-13
Fuel....G16-11
Ignition Service....G16-11
Leak Detection....G16-11
Lubrication Tools & Accessories....G16-1-9
Tire Repair....G16-15-16
Vacuum....G16-11
Wheel Repair....G16-15-16
AVIATION SNIPS....D10C-43

B • B • B

BACK BELTS....D14-18
BACK FLIP
CRAWLING INSECT KILLER....C14-1
BACK-UP ALARMS....G15-20-22
BACK-UP WASHERS....A19-25
BALLDRIVER HEX KEYS....D11-5
BALL JOINT LINKAGE ASSEMBLIES
Ball Joint Assemblies....A20-13
Clevis Yoke End....A20-13
Rod End Ball Joints....A20-13
BALL SWIVEL AIR HOSE CONNECTORS & FITTINGS....B11-9
BALL VALVES....B10-8
BANDAGES
Adhesive Pads....D14-23
Fabric Bandages....D14-23
Gauze Pads....D14-23
Knuckle & Fingertip Bandages....D14-23
Plastic Strips....D14-23
BANDSAW BLADES....D10C-36
BAR'S LEAK TABLETS....C11-16
BARREL NUTS....A11-10
BARRICADE TAPES....D14-4
BARB-TITE CLAMPLESS HOSE FITTINGS....B13-21
BARBED BRASS FITTINGS....B13-18
BARBED WATER HOSE FITTINGS....D14-17
BARRIER CREAM, INVISIBLE GLOVE™....C12-8
BASE STANDS....M10-2
BATTERIES
"3V" Lithium Size 123....D12-5
"A23" Alkaline....D12-5
Alkaline Leak Proof Industrial....D12-5
Duracell® Lithium....D12-5
Energizer 357 Button Cell....D12-5

B

"N" Alkaline....D12-5
Flashlight....D12-5
BATTERY
Bolt....E15-13
Cable Extenders....E15-2
Cables....E15-1-2
Charger Clips....E12-20
Chemicals....E15-1
Clamps, Holddown....E15-14-15
Cleaner & Protector....C12-12-12, E15-1
Connectors
Industrial....E15-7
Emergency Terminals....E15-3-5
GM Base Mount....E15-15
Harnesses....E15-3
Hold-Downs....E15-15
Hold-Down Bolts....E15-14
Hold-Down Kits, Ford....E15-15
Jumper Cable....E15-13
Nuts....E15-9, 13
Slugs....E15-12
Terminals....E15-3-11
Adapters....E15-4-5
Boots....E15-3
Coatings....E15-1
Compression....E15-8
CorrectConnect™ Un-Plated Seamless Copper Starter Lugs....E15-10
Lugs....E15-8-11
Non-Stackable, Lugs....E15-9
Stackable, Lugs....E15-9
Straight Sandcast Copper Solderbond....E15-11
Truck....E15-5
Trays....E15-14
Terminal Pullers....G16-10
Terminal Cleaner....G16-10
Testers....G16-10
Universal Lead-Free Terminal....E15-4
BATTERY TOOLS
Auto. Computer Memory Unit....G16-10
Booster Cables....G16-10
Cable Clamps....G16-10
Cleaner & Reshapers....G16-10
Fillers....G16-10
Cleaner & Protector....G16-11
Terminal Puller....G16-10
Tester....G16-10
BAYCO LIGHTING....D12-3
BAYONET AIRLINE GAUGE....B11-2
Replacement Parts....B11-2
BEARING LUBRICANT
Boat Trailer....C10-13
Heavy Duty....C10-7
Lubriplate....C10-13
Red Grease....C10-13
BEARINGS
Pillow Blocks....A20-11
BELT DRESSINGS....C13-1
BELT WRENCH SET, SERPENTINE....G16-13
BELTS
Back....D14-18
BENDING PLIERS....H15-3
BERKEBILE 2+2 GUM CUTTER....-4
BEVELED WASHER, SQUARE....A14-2
BIN, WAGNER'S BULB STORAGE MERCHANDISER....M10-15
BINS, STACKABLE (PLASTIC)....M10-9
BINS & ACCESSORIES, STORAGE....M10-1-2, 7
Base Stand....M10-2
BIN BOXES, CORRUGATED....M10-9
BINDER CHAIN....A20-3
BIO FOAM ENZYMATIC FOAMING COIL CLEANER....C12-3
BIONIC SHIELD....D13-11, D14-20
Replacement Visor....D13-11, D14-20
BIT HOLDERS....D11-10
BITS, BRAKE LATHE....G16-14
BLACK SILICONE, RTV "MAKE-A-GASKET"....C11-1, 12
BLACKHAWK HAND TOOLS
Combination Wrenches....D11-3-4
Screwdrivers....D11-9-10
Ratchets....D11-3

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

B

Wrench Sets....D11-3-4
BLADES
Air Saw....D10C-35
Bandsaw, Carbon Flexback....D10C-36
Close Quarter....D10C-35
H.D. Utility Knife....D10C-44
Hacksaw....D10C-34-35
Hole Saw....D10C-41
Jigsaw....D10C-36
Portable, Bandsaw....D10C-36
PVC/ABS....D10C-38
Razor....D10C-44
Reciprocating....D10C-36-40
Saber Saw....D10C-36
Tri-Fold....D10C-37
BLADES, WIPER....G10-1-3
BLANKETS, WELDING....D13-7
BLASTER AIR TOOL CONDITIONER....C10-8
BLEEDER SCREWS, BRAKE....H13-3
BLIND FASTENERS
Clinch Nuts®....A17-1
Rivets....A19-1-5
Well Nuts....A11-9
Woodserts....A11-9
BLIND RIVETS, NYLON....J10-58, 61-62
BLIND RIVETS TOOL....A19-26, J10-58
BLOC-IT PASTE....D13-8
BLOCKS, URINAL....D14-14
BLOW GUNS....B11-3-4
E-Z Grip Adjustable Pocket....B11-3
Inline....B11-4
Star Tip....B11-4
BLUE FLASH FLAP DISCS....D10A-5-6
BLUE SILICONE, RTV
"MAKE-A-GASKET"....C11-1, 12
BLUE WIPERS ON A ROLL....D14-12
Dispenser....D14-12
BMW RESET TOOL....G16-7
BOAT TRAILER BEARING GREASE....C10-13
BODY BOLTS....J10-47-48
BODY MOULDING TAPE....D14-3
BODY PANEL MOULDING CLIPS & RETAINERS
Door Clips....J10-30
Door Hinge Pins & Bushings....J10-31
Fasteners & Clips....J10-37
Hood Prop Clips....J10-32
Miscellaneous
Clips....J10-37
Nuts....J10-36
Retainers, Clips & Grommets....J10-37-38
Nuts & Grommets....J10-32-34
"U" & "J" Speednuts....J10-34-36
BODY REPAIR SYSTEM, 3M....D14-3
BODY SHOP CLEANERS....C12-12-13
BODY SHOP TOOLS
Hot Air Gun....D11-14
Pry Bar....D11-11
Ratcheting Screwdriver....D11-9
Shaping Files....D10C-42-43
BOLT-ON FUSES....G14-4
BOLT-ON FASTCUT GRINDING DISCS....D10A-8
BOLT & NUT EXTRACTORS....D11-1
BOLT RETHREADING TOOL, EXT.....D10C-32
BOLTS
Assortments
12 Point Flange (Countr-Bor)....A12-5
Double Ended....A12-11
Elevator....A12-1
Eye....A12-8
Grade 2 Carriage....A12-3
Grade 2 Galvanized Carriage....A12-4
Grade 2 Hex Head Tap....A12-5
Grade 5 Carriage....A12-3
Grade 5 Hex Head Tap....A12-4
Grade 5 Ribbed Neck Carriage....A12-4
Grade 8 Carriage (Shaker Screen)....A12-2
Grade 8 Hex Flange....A12-6
Grade 8 Hex Head Tap....A12-4
Hex Serrated Flange Locking....A12-6
Step....A12-1
Stove....A12-7-8
Battery, Side Terminal....E15-13
Body....J10-47-48

B

Bumper Bolts....J10-48
Carriage
Galvanized Grade 2....A12-4
Grade 2....A12-3
Grade 5....A12-3
Ribbed Neck....A12-4
Grade 8 (Shaker Screen)....A12-2
Stainless Steel....A13-6
Double End Studs....A12-11
Elevator....A12-1
Exhaust....H19-3
Extractors....D11-1
Eye....A12-8-9
Flanged
12 Point (Countr-Bor)....A12-5
Grade 8 Hex....A12-6
Hex Serrated Locking....A12-6
Locking....A12-6
Metric....A16-13-14
Small Head, Class 10.9....A16-15
Fully Threaded Studs....A12-10
Galvanized Carriage....A12-4
Guide....H13-2
Hanger....A12-9
Hex Flange Gr. 8....A12-6
Hex Head, Metric....A16-6-10
"J" with nuts....A12-9
License Plate....J10-41-44
Pan....H17-2
Plow
Grade 5 Clipped Head....A12-1
Grade 5 #3....A12-1
Grade 8 #3....A12-1
Rod Coupling....A12-11
Self-Tapping Pan Bolts....H17-2
Sex....A15-20
Shaker Screen Grade 5....A12-2
Spring Center....A12-7
Square "U" Bolts....A12-9
Step....A12-1
Stove....A12-7-8
Studs....A12-10-11
Tap
Grade 2 Hex Head....A12-5
Grade 5 Hex Head....A12-4
Grade 8 Hex Head....A12-4
Threaded Rod....A12-10
Toggler® Toggle....A21-3
Torque Converter....H17-1
Transmission Pan....H17-2
"U"....A12-9
Unthreaded Rod....A12-10
BONDHUS HEX KEYS....D11-5
BONDED ABRASIVES....D10A-11-13
Cut Off Wheels
Aluminum Oxide Metal....D10A-13
Type 1....D10A-13
Depressed Center....D10A-13
High Speed....D10A-13
Masonry....D10A-12
Grinding Wheels
Depressed Center....D10A-11
Heavy Duty....D10A-12
Mounted....D10A-12
BONDED SELF SEALING WASHERS....A14-6
BONDING STRAPS, POST TERMINALS....E15-3
BOOSTER CABLE CLAMPS....G16-10
BOOSTER CABLES....G16-10
BOSCH® DIRECTCONNECT BLADES....G10-1
BOSCH® EVOLUTION BLADES....G10-1
BOSCH® MICRO EDGE BLADES....G10-1
BOSCH® WINTER SNOW BLADES....G10-1
BOUNTY® PERFORATED
PAPER TOWEL ROLL....D14-13
BOW TIE COTTER PINS....A18-3
BOWED SPRING WASHERS....A14-3
BOX WRENCHES, OFFSET....D11-3
BRACKETS....G15-4, 20, 26
BRAIDED MUSIC WIRE....D14-15
BRAKE
Adjusting Hole Cover....H13-4
Assembly Fluid....C10-13
Bleeder Screws....H13-3

B

Screw Caps....B15-1, L14-12
"C" Clips....H13-4
Caliper Grease....C10-13
Caliper Thread Repair....A17-6
Cleaner, Aerosol....C12-10-11
Cleaner & Parts Degreaser....C12- 4, 10-11
Cotter Pin....H13-4
Disc Brake Parts....H13-1-4
Import/Miscellaneous....H13-2-4
Drum Brake Holddown Parts....H13-4
"E" Clips....H13-4
Fluid....C14-3
Guide Bolts....H13-2
Guide Pins....H13-2
Holddown Cups....H13-4
Holddown Pins....H13-4
Hose Gasket Copper....H13-3
Hose Lock....H13-4
Lathe Cutting Bits....G16-14-15
Lathe Silencers....G16-14
Line Adapters....H15-5-6
Line Fittings....H15-2, 4-6
Lines, Hydraulic....H15-1-3
Lubricant....C10-13
Rotor Surfacing Discs, 3M....D10A-10
Sealing Gaskets, Copper....H13-3
Squeal Silencer....C11-15
BRAKE ANTI-SQUEAK....C11-15
BRAKE LATHE BITS, ON-THE-CAR....G16-14
Silencers....G16-14
BRAKE LINES, PREVENTX....H15-2
BRAKE MACHINE ACCESSORIES....G16-14
BRAKE QUIET TREATMENT....C11-15
BRAKE SERVICE TOOLS
Cutting Bits....G16-15
Disc Brake Cylinder Hone....G16-13-14
On-The-Car Brake Lathe Bits....G16-14
Silencers....G16-14
Rotor Silencers....G16-14
Rotor Surfacing Tool....D10A-10
Round Carbide Bits....G16-15
BRAKE SQUEAL SILENCER....C11-15
BRAKLEEN®
NON-CHLORINATED & LOW
VOC BRAKE PARTS CLEANER.C12-10-11
NON-FLAMMABLE
BRAKE PARTS CLEANER....C12-10-11
BRASS, BARBED WATER
HOSE FITTINGS....D14-17
BRASS FASTENERS
Cap Screws, Brass....A13-19
Cap Screws, Bronze....A13-21
Countersunk Washers....A13-20
Finishing Washer, Nickel Plated....A13-20
Flat Washers....A13-20
Hex Nuts....A13-20
Bronze....A13-21
Hi-Nut....A13-20
Machine Screw Nuts....A13-20
Machine Screws....A13-18-19
Threaded Rod....A13-19
Washers....A13-20
Countersunk Finishing....A13-20
Flat....A13-20
Nickel Plated Finishing....A13-20
Wood Screws....A13-17-18
BRASS FITTINGS....B13
Adapter....B13-22
Air Brake
Fittings....B13-23-28
Hose....B13-27-28
Repair Kit for 3/8" I.D.....B13-27
Barb-Tite Clampless Hose Fittings....B13-21
Barbed Connectors, Hose....B13-18
Compression
Double....B13-18
Standard....B13-5, 10
Discharge Hose....B13-27
Drain Cocks....L15-3
Dubl-Barb....B13-21
Fastube
Air Brake....B13-23-24
Caplugs....B13-32

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

B

Compression B13-12-13
Fuller Transmission....B13-18
Hose
Air Brake....B13-27-28
Assemblies B13-27
Fittings....B13-20
Push-On B13-22
Hose Ends B13-20
Hydraulic Brake Fittings....H15-1-6
Inserts B13-29
Inverted Flare....B13-5, 7-8
Nut, Steel....B13-7-8
Plug, Steel B13-8
Oil Cooler Repair B13-19
Pipe Fittings....B13-5-7
Pipe Thread B13-6-7
Push Connect Metric B13-16-17
SAE 45° Flared....B13-5, 8-9
Self-Align....B13-11
Special Adapters....B13-22
Tank Valves....B13-28-29
Threaded Sleeve....B13-19
Tools B13-31
Transmission H17-1
Valves....B13-28-29
BRASS HOSE FERRULES B12-4
Crimping Tool....B12-4
BRASS SAFETY CHAIN A20-2
BRASS WOOD INSERTS....A11-9
BRAWNY INDUSTRIAL®
GENERAL-PURPOSE WIPER D14-13
BRAZIER HEAD SOLID ALUM. RIVETS....A19-10
BRAZING FLUX PASTE D13-10
BRAZING FLUX POWDER D13-10
BRAZING RODS, PATRIOT D13-1, 4A
BRITISH STANDARD METRIC
ROLLER CHAIN A16-22
BRISTLE DISCS & BRUSHES D10A-17
BRONZE, SILICON FASTENERS....A13-21
BRONZE WOOL D10A-16
BROOMS
Bus D14-8
Floor D14-9
Push D14-9
BRUSHABLE ADHESIVE/SEALANT C11-4
BRUSHES
Acid D14-7
Car Washing....D14-7
Condenser Tube....D10A-2
Deburring....G17-1
Detailers....D14-7
Foam D14-10
Miniature, Nylon/Steel D10A-2
Paint D14-10
Parts Cleaning D14-7
Power Tube D10A-2
Plumber's....D14-7
Radiator Cleaning....D14-7
Steel Power Tube....D10A-2
Tire Cleaning D14-7
Tube Fitting D10A-2
Utility, Wire....D14-7
Wire D10A-1-3
BUCKETS D14-8
Bucket/Wringer Combo Set D14-8
BUFFING COMPOUNDING PAD....D14-11
BUGBAND WRISTBANDS D14-26
BULBEX RIVETS....A19-7
BULBS
13 Watt Replacement Fluorescent D12-1
Competitive Edge Automotive....G13-1, 4-5
Flashlight D12-4
Fluorescent....D12-1
Frosted....D12-1
Halogen....G13-1-2
Halogen Back-up....G13-1-2
Long Life....D12-1
Miniature....G13-3-5
Rough Service D12-1
Sealed Beam....G13-2
Standard D12-1
Super Service D12-1
T-3 Halogen....D12-1
Tuffskin D12-1

B-C

Wagner
BriteLites G13-2
Mini. Bulb/Lighting Program....G13-3
Bulb Merchandiser G13-3
BULK CHEMICAL EQUIPMENT....C14-7-8
BULK CHEMICALS....C10-1
BULK CHEMICAL SPRAYERS C14-8
BULLS EYE REPAIR KIT....C11-16
BUMPER, TRUNK (Interior) & UNDERHOOD
Retainers & Clips....J10-16-28
BUMPER
Flexible Paint C13-4
Rivets J10-57, 60
BURS, CARBIDE....D10C-34
BUS BROOMS, EXTENDABLE HANDLE D14-8
BUSHINGS
Door Hinge J10-31
Lift Arm Pin A20-11
Machinery A14-5
BUTTON HEAD GREASE
FITTINGS B15- 2, L14-12-13
BUTTON HEAD SOCKET C/S A10-16
BUZZER, UNIVERSAL....G12-3

C • C • C

C-FOLD TOWELS D14-12
Dispenser....D14-12
C/V JOINT UNIVERSAL BOOT KIT, FWD ...H17-2
CABINETS
Bins M10-1-2, 7
Drawer....M10-2
Base Stands....M10-2
E-Z View....M10-8
Hose/Cable....M10-7
Labels....M10-7
Storage....M10-7-8
Truck & Van....M10-17
Utility M10-8
Welding Rod....M10-13
CABINET DOORS, 40 BIN M10-2
CABLE
Adhesive Back Tie Base E12-13
Aircraft....A20-6
Vinyl Coated A20-6
Battery....E11-4
Booster G16-10
Clamps
Adhesive Backed....E12-18
Aluminum Tubing & Cable....E12-17
Nylon E12-18
Clips A20-5
Clips, Steel Insulated Mounting E12-17
Control....G15-26
Marine, UL Listed Multi-Conductor E11-3
Puller A20-3
Push Mount Tie Base....E12-13
Screw Mount Tie Base....E12-13
Stops A20-5
Stripper Tool D11-13
Tie Bases
Adhesive Back....E12-13
Push-Mount E12-13
Screw Mount....E12-13
Tie Rack....E12-9
Ties
Colored E12-10
Fluorescent....E12-11
Heavy Duty....E12-10
Identification E12-12
In-A-Jar, Industrial E12-12
Mounting....E12-12
Push-Mount E12-12
Rack....M10-14
Releasable....E12-11
Safe-Ty™ Low Profile....E12-11
Stainless Steel....E12-12
Standard E12-10
Trailer Lighting E11-4
Velcro® Wraps E12-14
Welding E11-4, D13-6

C

CAGE NUTS
"J" A11-10, J10-50
Square A11-10
CAM-LOCK WASHERS A14-5
CAMCAR TEXTRON CAMTAINER
FASTENING SYSTEM....A19-20
CAN-GUN AEROSOL SPRAY
CAN TRIGGER HANDLE....C14-8
CAN LINERS, HIGH-DENSITY D14-14
CAP SCREWS
Assortments
112 Bin
Grades 5 & 8 ....A10-2
80 Bin
Grades 5, 8 & L9®....A10-2-4
40 Bin
Grades 5, 8 & L9®....A10-4-5
Steel Tray
Grades 5, 8 & L9®....A10-5
Brass A13-19
Bronze....A13-21
Button Head, Socket A10-16
Stainless Steel....A13-5
Flat Head, Slotted A10-10
Flat Head, Socket A10-14
Stainless Steel....A13-5
Full Thread, Grade 5....A12-4
Hex Head
Brass A13-19
Grade 2....A10-10
Grade 5....A10-9
Grade 8 ....A10-7-8
Grade 8.8 ....A16-8-10
Grade L9® A10-6
Metric....A16-6-10
Silicon Bronze....A13-21
SS 18-8 ....A13-1-2
SS 316....A13-3
Low Head, Socket....A10-13
Metric....A16-11
Socket, SS Metric Flat A16-12
Socket Head A10-10-12
Stainless Steel 18-8 ....A13-4-5
Socket Head, Set
Cup Point....A15-21
Knurled Point....A15-21
Stainless Steel 18-8....A13-4
Socket Head, Shoulder A10-15
Stainless Steel....A13-4
Socket Head, Metric A16-11-13
Stainless Steel....A16-28
Socket Head, Stainless Steel A13-4-5
Stainless Steel....A13-1-3
Supralloy L9®....A10-6
Tamperproof Socket A10-16-17
CAPPLUGS B13-32
CAPS
Acorn Nut....A11-8
Fuel L13-2
Grease Fitting B15-1, L14-12
Heater Hose L15-2
Oil Filler L13-2
Plugs B13-32
Radiator....L13-1
CAR CLEAN CONCENTRATE C12-12
CARBIDE BITS G16-14-15
CARBIDE BURS (ROTARY FILES) D10C-34
CARBIDE CUTTERS....H11-6
CARBON FLEXBACK BLADES D10C-36
CARBURETOR
Cleaner C12-10-11
Fuel Injection Hose....L11-1
Clamps....L11-1
Fuel Line/Vacuum Hose L11-1
Hoses L11-1
Pulsating Spray....C12-10
Springs L11-3
Vacuum Caps....L11-3
Vacuum Hose Fittings L11-2-3
CARPET CLEANER....C12-4, 13
CARRIAGE BOLTS....A12-2-4
Galvanized....A12-4
Grade 2....A12-3
Grade 5....A12-3

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

C

Ribbed Neck A12-4
Grade 8 (Shaker Screen)....A12-2
Stainless Steel A13-6
CARTON SEALING TAPE D14-3
CARTRIDGE ROLLS D10A-9
CAST BLAST CAST IRON PAINT C13-4
CASTLE HEX NUTS, GRADE 5 ....A11-8
CASTLE NUTS, METRIC A16-17
CATALYTIC CONVERTER, FLANGE H19-2
CAULK
3M Strip C11-14
Siliconized Acrylic Latex C11-2
CAULKING GUN D14-10
The "Right Stuff" C11-13
"CAUTION WET FLOOR" FLOOR SIGN D14-8
CEILING HOOK A20-8
CEILING TILE PAINT - NEW WHITE C13-4
CEMENT, CONTACT C11-3
CEMENT, MUFFLER C11-16
CENTER PUNCHES D11-11
CERAMIC EXTREME BRAKE PARTS LUBRICANT, PERMATEX® C10-13
CERAMIC FUSES G14-2
CHAIN & CABLE
Aircraft Cable A20-6
Vinyl Coated A20-6
Anchor Shackles A20-6
Ball Joints A20-13
Binder A20-3
Breaker A20-12
Cable Puller A20-3
Ceiling Hooks A20-8
Chain
Assemblies
Binder A20-3
Tow A20-3
Brass Safety (Plumbers) A20-2
General Purpose A20-1
Heel Coil A20-1
Inco Double Loop A20-2
Jack A20-2
Lock Link, Single Loop A20-2
Loop A20-2
Passing Link A20-2
Plumbers (Brass Safety) A20-2
Sash A20-2
Stainless Steel A20-3
Straight Link Machine A20-1
System 3 - Proof Coil A20-1
System 4 - High Test A20-1
System 7 - Transport A20-1
Tow A20-3
Twist Link Machine A20-1
Clevis Yoke Ends A20-13
Clevises, Twist & Straight A20-6
Clips, Wire Rope A20-5
Equipment Pins
Hitch Pins A20-11
Lift Arm Bushing A20-11
Lift Arm Pin A20-11
Lynch Pins A20-12
PTO Lock Pin A20-11
Eye Bolts
Bent w/Hex Nuts A20-7
Forged A20-7
Lag Screw Thread A20-7
Lifting A20-7
Ferrules A20-5
Field I.D. Tag A20-3
Hooks
Eye Hoist w/Safety Latch A20-6
Grab, Clevis Style A20-6
Slip A20-6
Snap w/Safety Latch A20-6, 8
"J" Bolts A20-7
Load Binders A20-3
Load Huggers A20-4
Links
Chain A20-4
Cold Shut A20-5
Double Clevis A20-5
Eye & Eye Swivels A20-5
Lap A20-5

C

Master A20-4
Quick A20-5
Repair A20-5
Security Coupling A20-4
Pillow Blocks A20-11
Roller Chain
British Standard Metric A16-22
Drive A20-12
Heavy Series A20-12
Single Strand, Riveted A20-12
Roller Chain Repair
Chain Breaker A20-12
Repair Parts A20-12
Rope
Nylon A20-9
Polypropylene A20-9
Rope Hooks A20-9
Rope Ratchet A20-9
Rubber Straps & Rope A20-9-10
"S" Hooks A20-8
"Infinity" A20-8
Safety Latch Kits, Universal A20-8
Screw Eyes A20-7
Shackles A20-6
Slings, Nylon A20-10
Snap Pear Hooks A20-8
Snaps A20-8
Stops A20-5
Tarps A20-10
Tow Rope A20-4
Turnbuckles
Aluminum A20-7
Steel A20-7
Twine
Chalk & Mason A20-9
Polished Cotton A20-9
Universal Safety Latch Kits A20-8
Wire Rope (Aircraft Cable) A20-6
Clips A20-5
Thimbles A20-5
Vinyl Coated A20-6
CHAIN & CABLE LUBE
Lubriplate C10-5
Moly Gear & Chain Lube C10-5
X-Heavy Gear Shield C10-5
CHALK TWINE A20-9
CHANNELLOCK-GRIPLOCK PLIERS D11-6
CHASSIS GREASE C10-10
CHEMICAL RESISTANT GLOVES D14-19
CHEMICALS, BULK C10-1
CHEMICAL DISPENSERS C14-7-8
CHEWING GUM REMOVER C12-4
CHISELS D11-11
CHROME PAINT C13-4
CHUCKS, AIR B11-3
CIRCUIT BREAKERS G14-5-6
CIRCUIT CHECKER, 7 WAY
Blade Type, LED G15-25
Pin Type G15-25
CIRCUIT PROTECTION
Band H19-4
Circuit Breakers G14-5-6
Fuse Holders G14-4, 7
Fuse Panels G14-8
Fuse Taps E10-30, G14-4
Fuse Tester & Puller G14-4
Fuses
3 AG (AGC) Fast Acting G14-4
(ATO/ATC & E-Z) Fuse Holders with Protective Cap G14-7
Bolt-On G14-4
Cartridge G14-4
Ceramic G14-2
E-Z (ATC, ATO) G14-1
FLNR Dual Element Time Delay Cartridge G14-4
Glass G14-2
High Amp & Holders G14-4, 7
JCase™ FMX Series
High Amp G14-3
Low Profile G14-3
LED Indicator Glow G14-1
Low Profile Mini G14-1

C

Maxi™ G14-1
Mega® Bolt-On G14-4
Mini® G14-1
PAL™ G14-3
Fusible Links G14-3
CIRCUIT TESTER D11-14
CITRA-CLEAN DEGREASER C12-1
CITRA-CLEAN II DEGREASER C12-1
CITRA-CLEAN HAND CLEANER C12-9
CITRUS MAGIC C14-4
CLAMP-A-STUD H19-4
CLAMPS
Band H19-4
C/V Boot H17-3
Chain D11-8
Deep Throat D11-8
Emission H19-1
Locking "C" D11-8
Muffler H19-1
Sealclamps H19-4
Truck H19-1
CLAMPS, ADHESIVE BACKED
Flame Resistant PVC Snap E12-18
Nylon Snap E12-18
CLAMPS, HOSE
Constant Torque B12-2
Ear Style
2" B12-3
Stepless B12-4
European Style B12-3
Fuel Injection L11-1
Fuel Injection, Type "G" B12-3
General Purpose B12-1
Hi-Torque Heavy Duty Liner B12-2
Lined B12-2
Micro, Stainless Steel B12-2
Make-A-Clamp B12-3
Muffler, Welded H19-1
Spring Action B12-3
Stainless Steel B12-1
T-Bolt B12-2
Muffler H19-1
CLAW HAMMER D11-11
CLAW, OIL FILTER WRENCH G16-1
CLAW PRONG TEE NUT A11-9
CLEAN 'N STRIP DISCS, 3M D10A-14
CLEANERS
Air Jet C12-2
Aluminum C12-1
Appearance C12-12-13
Battery C12-12
Brake C12-10-11
Car Wash C12-12
Carburetor C12-10-11
Carpet/Upholstery C12-4, 13
Chewing Gum C12-4
Citrus Based C12-1, 9
Cling 'N Clean C12-2
Coil C12-3
CRC Contact Cleaner C12-4
Degreasers C12-2-4, 10-11
Disinfectant/Deodorizer C12-2, 13
Driveway Cleaner DX12 ....C12-5
Electrical/Electronic C12-4
Fastball Alkaline C12-1
Floor, Concentrate C12-1
Fuel Systems C12-10-11
Gasket Remover C12-11
Gel Graffiti Remover C12-2
Glass C12-2, 12
Green Kleen GRK420 ....C14-5
Hand C12-5-9
Kapow Heavy Duty Towels C12-5
Multi-Use C12-12
Parts C12-4, 10-11
Pro-Tech Detail C12-13
Purple-Pro™ C12-1
Scrubs® In-A-Bucket C12-5
Spray Nine C12-2
Stainless Steel C12-1
CLEANING SUPPLIES
Floor D14-8-9
Misc. Brushes D14-9

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

C

CLEAR-VIEW HEAT SHRINK TUBING....E10-18B
CLEAR SILICONE, RTV SEALANT.....C11-1, 12
CLEVIS DOUBLE A20-5
CLEVIS GRAB HOOK.....A20-6
CLEVIS PINS.....A18-6-7
Stainless Steel.....A13-20A
CLEVIS SLIP HOOK.....A20-7
CLEVIS YOKE ENDS A20-15
CLINCH NUTS®.....A17-1, J10-52
CLING 'N CLEAN.....C12-2
CLIPS
Alligator.....E12-20
Cable A20-5
Convoluted Loom.....E12-16
General Purpose.....E12-20
Keeper H13-1
Loom & Cable E12-16
Nylon Cable E12-18
Steel Insulated Mounting E12-17
Wire Rope.....A20-6
CLOSED END CONNECTORS.....E12-3, 4B
CLOSED END SEALING BLIND RIVETS..A19-4-5
CLOSURES, CAPPLUGS B13-32
CLOTH, MICROFIBER CLEANING D14-12
CLOTHING, PROTECTIVE D14-18-19
COATED ABRASIVES D10A-5-10
3M Products
Roloc™
Brake Rotor Surfacing Discs .D10A-10
Grinding Discs D10A-10
Sanding Sheets D10A-7-8
Stikit
Disc Pad D10A-7
Gold Disc Rolls.....D10A-7
Green Disc Rolls.....D10A-7
Cartridge Rolls.....D10A-9
Crocus Cloth Sheets D10A-7
Emery
Cloth Sheets D10A-7
Cloth Utility Rolls.....D10A-7
E-Z Abrasive Flap Wheels.....D10A-6
Fastcut
Bolt On Grinding Discs.....D10A-8
Sanding Sheets.....D10A-7
Wet or Dry Sheets.....D10A-6
Non Loading Sandpaper D10A-7
Plumbers Rolls
E-Z Clean Cloth Roll D10A-7
Grip-Kut Mesh Cloth Roll D10A-7
Silicone Carbide
Screencloth.....D10A-6
Assortment D10A-6
Dispenser Rolls D10A-6
Solid Rubber Drums.....D10A-8
Spiral Bands.....D10A-8
Trim-Kut Discs.....D10A-9
Twist-Lock Mini Grinding Discs D10A-10
Zirconium
Blue Flash Flap Discs D10A-5
Mini D10A-5
Twist-Lock Mini Flap Discs D10A-6
COBALT HEAVY DUTY DRILLS.....D10A-26
COBRA PLIERS.....D11-7
COIL CLEANER, BIO FOAM
ENZYMATIC FOAMING C12-3
COIL FOAM.....C14-6
COIL THREAD INSERTS & TOOLS A17-5-6
COIL THREAD SPARK PLUG INSERT
REPAIR KIT.....A17-5
COLD SHRINK TUBING.....E12-7
COLD SHUT LINK.....A20-5
COLOR CODING TAPE D14-2
COLORED CABLE TIES.....E12-10
COMB. INT. / EXT. LOCK WASHERS.....A14-5
COMB. RND HEAD MACHINE SCREWS...A15-11
COMBINATION WRENCH SETS.....D11-3-4
COMBO DRILL TAP.....D10C-30
COME-A-LONG CABLE PULLER A20-3
COMPETITIVE EDGE
Mini Bulbs/Halogen Capsules G13-1, 4-5
COMPLIANCE CENTER &
ACCESSORIES.....M10-6
COMPOSITE PUSH-TO-CONNECT
FITTINGS B13-14-15

C

COMPOUNDING PAD.....D14-11
COMPRESSOR GUARD KIT.....L17-22
COMPRESSION BATTERY TERMINALS E15-8
COMPRESSION BRASS FITTINGS
Double.....B13-18
Standard B13-5, 10
CONDENSER TUBE BRUSHES D10A-2
CONCENTRATED CLEANER/ DEGREASER -
PERFECT SOLUTION.....C14-4
CONCENTRATED U/V DYE L17-19
CONDUCTIVE COPPER COMPOUND,
KOPR-SHIELD.....E15-1
CONDUIT, ELECTRICAL E12-19
CONES
Safety D14-26
CONFORM-A-SLEEVE.....E12-19
CONNECTING LINK
Cold Shut Style A20-5
Rivet Style.....A20-4
CONNECTORS
Auto-Electrical, Conn E12-5
Bullet Receptacle.....E12-4
Cable E12-5
Closed End E12-3, 4B
Communications E12-6
Cooler Line H17-1
Cool Seal Butt E12-4C
Cord E13-1
Deutsch.....E10-31-32
Flat Male, 4-Prong.....G15-25
Grounding E12-4
Heat Shrink, E-Zview.....E10-18B
In-Line Butt Connectors.....E12-4A
Lamp Socket G11-2-6
Chrysler.....G11-1-2
Ford.....G11-1-2
GM G11-3-4
Miscellaneous G11-5
Universal G11-1, 3
Multi-Link E10-12-18
Posi-Lock E12-4
Quick Disconnect, T-Tap E12-4
Safety E12-3
Scotchlok™, 2 Wire E12-2
Self-Stripping E12-6
Silicone-Filled Safety E12-3
Split Bolt.....E10-33
Step Down Butt.....E10-14A-B, 20, 26, 30
Strain Relief E12-6
Tap, Moisture Resistant.....E12-5
Trailer G15-24-25
Trailer, Electrical.....G15-25
Tru-Lok, Wire E12-4
Waterproof E12-3
Weatherpack G11-9
Wire Nut.....E12-1
CONNECTORS, AIR.....B11-8
Conectors, Wire E12-1
CONQUEST CLEANER & DEGREASER C12-1
CONSPICUITY TAPE.....G15-19
CONSTANT TORQUE HOSE CLAMPS.....B12-2
CONTACT CEMENT C11-3
CONTACT CLEANER C12-4
CONTAINER, STORAGE.....M10-9
CONTOUR KNEE PAD D14-18
CONTROL CABLES G15-26
CONTROL VALVE, HIGH PRESSURE G16-5
CONVOLUTED LOOM CLIPS.....E12-16
COOL GEL, HEAT BARRIER SPRAY.....D13-8
COOL SEAL BUTT CONNECTORS.....E12-4C
COOLANT TEST STRIPS.....G16-12
COOLER LINE CONNECTOR H17-1
COOLER LINE RETAINING CLIPS
W/O-RINGS, GM.....H17-2
COOLING SYSTEM HEATER HOSE L15-1
COPPER ANTI-SEIZE.....C10-11
COPPER BATTERY TERMINALS.
HEAVY DUTY E15-6
COPPER BRAKE HOSE GASKET H13-3
COPPER CRUSH GASKETS L14-11
COPPER GASKET SEALANT C11-4
COPPER SWEAT FITTINGS.....B10-7
COPPER TUBING B13-30
CORD CONNECTORS

C

Ericson® Heavy Duty/Industrial Type E13-1
Heavy Duty/Industrial Type.....E13-1
Industrial Auto-Grip.....E13-1
Versatile Weather-Resistant
Field Conversion.....E13-1
CORD PLUGS, ELECTRIC E13-1
CORE DRILL.....D10B-24
CORRECTCONNECT™ UN-PLATED SEAMLESS
COPPER STARTER LUGS E15-10
CORROSION INHIBITOR,
SP-400™ C10-8, C13-1
CORROSION PREVENTIVE COMPOUND,
NYK G15-16
CORRUGATED BIN BOXES M10-9
COTTER PINS
Bow-Tie.....A18-3
Metric A16-22
Stainless Steel A13-17
Steel A18-1-3
COTTON TWINE.....A20-9
COUNTERSUNK BITS.....D10B-22
COUNTERSUNK FINISHING WASHERS.....A14-3
Brass A13-20
Stainless Steel A13-9
COUNTERSUNK TOOTHED L/W A14-5
Stainless Steel A13-9
COUNTR-BOR SCREWS.....A12-5
COUPLERS
Air Line.....B11-5-9
Non-Marking B11-8
Safety B11-9
COVERALLS, DISPOSABLE.....D14-18
COVERALLS, PAINTERS.....D14-18
COWL VENT
Retainers & Clips.....J10-16-28
CRANKCASE HOSE TEE.....L11-2
CRC®
Battery Cleaner.....C12-12
Battery Terminal Protector.....C12-12
Belt Dressing C13-1
Brakleen® Non-Chlorinated & Low VOC
Brake Parts Cleaner C12-11
Brakleen® Non-Flammable
Brake Parts CleanerPower Lube C12-11
Corrosion Inhibitor,
SP-400™ C10-8, C13-1
Heavy Duty Degreaser C12-4
Industrial 3-36®.....C10-3
Lectra-Motive®
Electric Parts Cleaner.....C12-4
Mass Air Flow Sensor Cleaner C12-11
QD™ Electronic Cleaner C12-4
White Lithium Grease with Teflon.....C10-6
CREEPER WHEELS D14-16
CRIMPING TOOL
Wire D11-13-14
CROCUS CLOTH SHEETS D10A-7
CROW BARS.....D11-11
Hold-Down Clip.....D11-11
CUT-OFF WHEELS D10A-12-13
Dispenser M10-14
CUTTERS, CARBIDE.....H11-6
CUTTERS, ROTABROACH®.....D10C-40
CUTTERS/SNIPS.....D10C-43
CUTTING TOOLS.....D10C-44-45
Blades
Bandsaw.....D10C-36
Bandsaw, Carbon Flexback.....D10C-36
Dies, Threading
Hex D10C-28
High Speed Steel.....D10C-29
Metric.....D10C-28
Stock.....D10C-30
Thread Restoring.....D10C-31
Drill Bits
Cobalt Heavy Duty D10B-26
Core D10B-24
Countersink Bits.....D10B-22
Double End D10B-22
Dynalloy D10B-20-25
Extension D10B-22
Hex Shank D10B-22
High Speed Steel.....D10B-20-22
Hole Hog.....D10B-24

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

C-D

Left Hand D10B-25
Letter Sizes D10B-21
Long D10B-22
Masonry D10B-22
Metric D10B-21
Posi-Grip D10B-23-24
Reamer D10B-25
Reduced Shank D10B-19, 22
Rotary Saw D10B-24
Spade Wood Boring D10B-25
Spiral Point D10C-29
Spotweld D10B-25
Titanium Nitride D10B-19-20
Ultra Moly Muscle
Quick Release Style D10B-24
Unibit D10B-26
Step D10B-20
Weldout™ Spotweld D10B-25
Wire Sizes D10B-21
File Handles D10C-43
Files D10C-42-43
Hacksaw Blades D10C-34-35
Hacksaw Frames
High Tension D10C-35
Low Profile D10C-35
Mini D10C-35
Standard D10C-35
Hole Saws D10C-41
Inspect Sticker Scraper D10C-44
Jigsaw Blades D10C-36
Knives D10C-45
Metal Devil® Circular Saw Blades D10C-39
Razor Blades D10C-44
Reamers D10B-25
Reciprocating Saws D10C-36-40
Carbide Grit D10C-37
Saber Saw Blades D10C-36
Screw & Bolt Extractors D10C-33
Superouts D10C-32
Taps
Bottoming D10C-27
Combination Drill-Tap D10C-30
High Speed Spiral Point D10C-29
High Speed Steel D10C-29
Metric D10C-28
Pipe Thread D10C-30
Plug D10C-28
Taper D10C-27
Thread Restoring D10C-31
Wrench D10C-30
Thread Repair Tools
Drill Out D10C-33
Ext. Bolt Rethreading Tool D10C-32
Extractor Tools D10C-31, 33
Int. Thread Restorers D10C-32
Super Outs D10C-32
CUTTING FLUID, TAPMATIC C10-6
C/V BOOT CLAMPS
Universal H17-3
C/V JOINT
Universal Boot Kit H17-2
CYANOACRYLATE ADHESIVES C11-4

D • D • D

D.C. CIRCUIT TESTERS D11-14
D.C. VOLTAGE DETECTOR D11-14
DEAD BLOW HAMMER D11-11
DEBURRING BRUSH G17-1
DECK WASHERS A14-6
DEGREASERS
Aluminum C12-1
Citra-Clean C12-1
Citra-Clean II C12-1
Citrus Cleaner C12-1
Coil & Fin C12-3
Conquest C12-1
CRC Quick Clean C12-4
CRC QD™ C12-4
De-Solv-It Spray C12-3, 10
Electric Motor C12-3

D

Fastball Alkaline C12-1
Magnum HD Industrial Foam C12-3
DE-ICER, ICE-OFF® SPRAY C14-2
DE-ICER, LOCK C14-2
DE-ICER, WINDSHIELD C14-1
DELUXE HANDYMAN FIRST AID KIT D14-22
DEMOISTURANT
Lubriplate C10-10
5 In One C10-3
DEMOLITION RECIP. SAW BLADES D10C-38
DEODORIZER
Aerosol C12-2, 13
Liquid C14-4
Odor Counteractant DRC655 ....C14-4
Odorcide® 210 Concentrate C14-5
Dumpster & Chute C14-5
Original Formula C14-5
DEPRESSED CENTER WHEELS D10A-11
DETAILER BRUSHES D14-7
DETAILING CLEANERS & POLISHES C12-12-13
DEUTSCH DT SERIES CONNECTORS E10-31-32
Crimping Tool E10-31
Removal Tool E10-31
DEVOUR MILDEW & STAIN REMOVER C14-5
DIAGONAL CUTTING PLIERS D11-7
DIELECTRIC SILICONE GREASE C10-12
DIELECTRIC TAPE D14-1, E12-6
DIES, THREADING D10C-30-31
DIESEL FUEL CONDITIONER C14-2
DIESEL FUEL INJECTOR CLEANER C14-2
DIESEL PEP® W/ANTI-GEL FLOW
IMPROVER L82 ....C14-2
DIFFERENTIAL OIL DRAIN PLUGS L14-7
DIFFERENTIAL & TRANSFER
CASE PLUG, GM L14-7
DIFFERENTIAL PLUG EXTRACTOR G16-7
DISC BRAKE QUIET C11-15
DISC BRAKE CYLINDER HONE G16-13-14
DISC BRAKE PARTS H13-1-4
Anti-Squeak Coating C11-15
Bleeder Screws H13-3
Copper Sealing Gaskets H13-3
Guide Bolts H13-2
Guide Pins H13-2
DISCONNECT/SELECTOR SWITCHES G12-3
DISINFECTANT C12-2, 13
Spray Nine C12-2
DISPENSERS
Drill and Tap M10-12
Hand Cleaner M10-16
DISPENSING JUG C14-7
DISPOSABLE
Gloves
Latex D14-19
Nitrile D14-19
Vinyl D14-19
Plastic Covers
Seat D14-14
Shop Towels D14-12
Wipers D14-12-13
DOOR
Holders, Truck G15-26
DOOR AND INTERIOR TRIM
Door, Quarter, Rocker,
Deck (Trunk) Lid J10-16-28
Door Trim Panel Retainers and Clips
Retainers & Clips J10-16-28
Garnish, Headliner and Interior
Retainers & Clips J10-16-28
Universal / Miscellaneous
Plastic Shield Retainers J10-16-28
Push Pin Removal Pliers J10-16
DOOR AND WINDOW
CRANK HANDLE CLIP J10-13
DOOR HINGE PINS AND BUSHINGS J10-31
DOOR LOCK CLIPS, RETAINERS,
ROD END CLIPS J10-30
DOOR RIVETS A19-7
DOOR TRIM PANEL RETAINERS AND
CLIPS J10-16-28
DOOR WINDOW GLASS GUIDES J10-13
DOT FIRST AID KIT D14-23
DOTTED STRING KNIT GLOVES D14-19

D

DOUBLE-BUBBLE PACKETS C11-6
DOUBLE CLEVIS A20-5
DOUBLE END BITS D10B-22
DOUBLE EXPANSION ANCHORS A21-8
DOWEL PINS A18-6
Metric A16-25
DRAIN COCKS L15-3
Brass L15-3
Socket G16-13
DRAIN FUNNELS G16-8-9
DRAIN OPENER, ALKALINE C14-7
DRAIN PANS G16-9
DRAIN PAN REPAIR KIT A17-6
DRAIN PLUGS
Differential L14-7
Emergency L14-6
Fractional L14-2
Heli-Coil Oil Drain Pan Repair Kits L14-7
"One-Time" L14-2, 6
Magnetic L14-4
Metric L14-3-6
Self-Tapping L14-3
Oversize & Standard L14-2
Pipe Threads L14-2
Rubber L14-7
Seal-Rite L14-7
Steel L14-8
Toggle, Universal L14-6
Toyota Transmission/Trans Axle L14-7
Transfer Case, GM L14-7
Transfer Case, 4WD L14-7
Transmission L14-7
Wingnut Locking L14-6
DRAIN PLUG GASKETS
Aluminum L14-11
BMW L14-10
Chrysler L14-10
Rubber Insert L14-9
Copper L14-11
Copper Crush L14-11
Fibre L14-11
Fold-Over, Hyundai L14-10
Fold-Over, Subaru L14-10
Ford Rubber Insert L14-9
Ford Viton L14-9
GM Viton L14-9
GM Insert L14-10
Honda L14-10
Mercedes L14-10
Nylon L14-11
Nylon Ribbed L14-9
OE Honda Transmission L14-10
Saturn L14-9
Toyota L14-10
Volvo L14-9
DRAIN PLUG PLATE L14-8
O-Ring L14-8
DRAIN PLUG SOCKETS G16-2-4
DRAIN PUNCH C14-7
DRAWER CABINETS M10-2
Base Stand M10-2
DRESSER, GRINDING WHEEL D10A-12
DRESSING, BELT C13-1
DRILL CASES M10-11
DRILL-OUT ™ MICRO POWER
EXTRACTOR D10C-33
DRILL-OUT ™ POWER EXTRACTOR D10C-33
DRILL, PILOT D10C-40-41
DRILL POINT SCREWS A15-9
DRILL N' TAP
Dispensers M10-12
Screws A15-7-9
TEKS® Stainless Steel A13-10
DRILLS
Cobalt Heavy Duty D10B-26
Core D10B-24
Dynalloy D10B-20-22, 23-25
Extension D10B-22
Hex Shank D10B-22
High Speed D10B-20-22
Hole Hog D10B-24
Left Hand D10B-25
Long D10B-22

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

D

Masonry....D10B-22
Pilot D10C-40-41
Posi-Grip D10B-23-24
Rotary Saw....D10B-24
Titanium Nitride D10B-19-20
Ultra Moly Muscle
Quick Release Style....D10B-24
Unibit D10B-20, 26
Step....D10B-20, 26
Weld Out Spotweld....D10B-25
DRIPLESS OIL C10-5
DRIVE ADAPTERS D11-3
DRIVE CHAIN A20-12
DRIVE GRIP ANCHORS A21-4
DRIVE SCREW ANCHORS....A21-2
DRIVE SOCKETS & SETS
3/8" D11-2
1/2" D11-2
DRIVE TRAIN HARDWARE
C/V
Boot Clamps....H17-3
Boot Kits....H17-2
Pan Bolts H17-2
Torque Converter
Bolts H17-1
Nuts....H17-1
Transmission Service Parts
Cooler Line Connectors....H17-1
Cooler Line O-Rings....H17-2
"E" Clips....H17-1
Fittings....H17-1-2
Gearshift Insulators H17-1
GM Cooler Line Retaining Clips....H17-2
Grommets....H17-1
Inverted Flare Nuts....H17-1
Linkage Pins....H17-1
Plastic Vacuum Tees....H17-1
Quick Disconnects -
Transmission/Oil Line....H17-2
Throttle Valve/Passing Gear
Rod Grommet....H17-1
Transmission Cooler Hose H17-2
DRIVERS, NUT....D11-4
DRIVEWAY CLEANER DX12 ....C12-5
DRIVEWAY SIGNAL BELL....D14-16
DRIVEWAY SIGNAL HOSE....D14-16
DRIVING GLOVES, LEATHER D14-18
DROP-IN ANCHORS....A21-8
DRUM ACCESSORIES....C14-7-8
Cradle C14-8
Dolly C14-8
Faucets....C14-7
Funnel....C14-8, G16-8-9
Plastic Pump....C14-7
Plug Wrench C14-7
Trolley....C14-8, G16-9
DRUM BRAKE PARTS H13-4
Adjusting Hole Cover....H13-4
"C" Clips....H13-4
Cotter Pin....H13-4
"E" Clips....H13-4
Holddown Cups H13-4
Holddown Pins....H13-4
Hose Lock....H13-4
DRUM DOLLY C14-8, G16-9
DRUM PLUG WRENCHES C14-7
DRUM PUMP....C14-7
DRUM TOP PADS....D14-25
DRUM TROLLEY....C14-8, G16-9
DRY LUBRICANT, TEFLON C10-4
DRYWALL SCREWS....A15-19
DUAL LOCK RECLOSABLE FASTENER....D14-5
DUAL O-RING FITTINGS/GASKETS....L17-12
DUBL-BARB BRASS FITTINGS....B13-21
DUCT
Tape D14-2
DUNK TANK....G16-15
DURACELL BATTERIES....D12-5
DURA DRIVER 10 PIECE SET D11-9
DUST BRUSH....D14-9
DUST CAPS & PLUGS, HYDRAULIC
QUICK COUPLING....B11-9
DUST MASK....D14-20
DUST PAN, RUBBER HD D14-9

D-E

DX12 DRIVEWAY CLEANER C12-5
DYE CHARGE....L17-19
DYE, LEAK DETECTION....G16-11
DYESTERCOOL™ OIL....L17-19
DYNA-CUT HOSE CUTTER G16-12
DYNALLOY DRILLS....D10B-20-22, 23-25
DYNALLOY WIRE SOLDER & PASTE D13-9
DYNAMOMETER HOSE &
ACCESSORIES....D14-6

E • E • E

E-6000™ HIGH STRENGTH SYNTHETIC
ADHESIVE/SEALANT....C11-2
"E" CLIPS A18-7-8
E-Z
Abrasive Flap Wheels D10A-6
Clean Cloth Roll D10A-7
Fast Cure Epoxy....C11-10
Fastener System G18-1-9
Hand Cleaner....C12-8
Metal Cutting Foam C10-7
Seal Dielectric Compound Tape E12-6
Wipes C12-9
EARMUFF, MID RANGE....D14-21
EAR CLAMPS B12-3-4
2" B12-3
Stepless® B12-4
EAR PLUGS D14-21
EAR STYLE HOSE CLAMPS....B12-3-4
EGR VALVE CARBON FILTER
GASKETS L10-2
EIGHT LAMP SCHOOL BUS ELECTRONIC
FLASHER/CONTROLLER....G15-2
ELECTRO-SOLV....C12-3
ELECTRIC MOTOR DEGREASER....C12-3
ELECTRIC PARTS CLEANER,
LECTRA-MOTIVE® C12-4
ELECTRICAL CONDUIT E12-19
ELECTRICAL CONTACT CLEANER C12-4
ELECTRICAL TAPE....D14-1
3M Brand D14-1
Liquid C11-2, D14-1
ELECTRICAL TUBING....E12-19
ELECTRICAL SERVICE TOOLS
A/C Sensor D11-14
Circuit Tester D11-14
D.C. Voltage Detector....D11-14
Terminal Brush G16-10
Wire Piercing Guide....D11-14
ELECTRONIC BACK-UP ALARMS G15-20-22
ELECTRONIC CLEANER, CRC QD™....C12-4
ELECTRONIC FLASHER/CONTROLLER
EIGHT LAMP SCHOOL BUS....G15-2
ELECTRONIC FLASHERS G13-1
ELEVATOR BOLTS....A12-1
EMBLEM ADHESIVE C11-14
EMERY
Cloth Sheets....D10A-7
Cloth Utility Rolls D10A-7
EMERGENCY EYE & SKIN FLUSH....D14-24
EMERGENCY SEAT BELT KNIFE D14-26
EMERGENCY SPILL KIT D14-25
EMISSION
Hose L11-1
System Clamp H19-1
ENERGIZER 357 BUTTON CELL
BATTERY D12-5
ENGINE
Assembly Lube C10-11
Block Sealer....C11-15
Degreaser, Gunk® C12-11
Drain Pan....G16-9
Hi-Tech Coating Paints....C13-4
Oil/Lubricant–2 cycle C10-14
Paint C13-4
Service Tools....G16-12-13
ENGINE BLOCK SEALER....C11-15
ENZYMATIC FOAMING COIL CLEANER,
BIO FOAM C12-3
EPOXY

E

Fast Cure C11-10
Gorilla C11-10
Hi-Tech Industrial....C11-11
High-Temp Faststeel C11-10
Minute Mend....C11-10
Steel C11-10
EQUIPMENT PINS A20-11-12
ESTERCOOL™ OIL....L17-17
R134a Oil Charge....L17-18
EUROPASTE....H11-8
EUROPEAN STYLE HOSE CLAMPS....B12-3
EXACT FIT® WIPER RACK....M10-15
EXHAUST
Band Clamps H19-4
Bolts H19-3
Clamps....H19-1
Clamp-A-Stud H19-4
Converter Flange Kit....H19-2
Emission Components....H19-1-2
Flanges
Catalytic Converter Laminated
Steel Split Kit....H19-2
Chrysler Split....H19-2
Ford Split Kit....H19-2
Hardware H19-2-4
Hangers H19-1
Hardware, Bolts H19-3
LapJoint Band Clamps....H19-4
Manifold Hardware H19-2-3
Muffler
Clamps H19-1
Hangers....H19-1
Nuts H19-3
Rain Caps H19-4
Screws....H19-3
Sealclamps H19-4
Split Flanges....H19-2
Studs H19-2
System Hangers H19-1
Washers....H19-3
Weathercaps....H19-4
EXHAUST TOOLS
Pipe Shaper....G16-13
EXHAUST TUBING, GARAGE D14-6
EXPANDABLE MESH SLEEVING E12-19
EXPANSION NUTS (JACK NUTS)....J10-51-52
EXTEND PRIMER....C13-1
EXTENDABLE HANDLE BUS BROOMS....D14-8
EXTENSION CORDS D12-2
EXTENSION DRILLS D10B-22
EXT. BOLT RETHREADING TOOL D10C-32
EXTERNAL RETAINING RINGS....A18-7-8
EXTERNAL TOOTHED LOCK WASHER A14-5
EXTRACTORS
Bolt & Nut....D11-1
Coil Thread A17-6
Drill-Out ™ Micro Power Extractor D10C-33
Drill-Out ™ Power Extractor....D10C-33
proGRABIT® Broken Bolt & Damaged
Screw Remover....D10C-33
X-OUT™ Damaged Screw RemoverD10C-33
EYE BOLTS....A12-8-9
Lifting A20-7
EYE HOIST HOOK A20-6
EYE SWIVELS....A20-5
EYEWEAR, PROTECTIVE....D14-21-22
E-Z ABRASIVE FLAP WHEELS....D10A-6
EZ-BRAKE LINE REPLACEMENT KITS....H15-3
Tubing....H15-3
E-Z CLEAN WATERLESS
HAND CLEANER C12-8
E-Z PAK
Automotive Assortments G18-2-4
Grade 5 Basic G18-2
Grade 5 Supplementary....G18-3
Grade 8 .... G18-4
Refills G18-5-6
Metric Assortment....G18-7
Refills G18-8-9
E-Z PROBE H11-6
E-Z SEAL DIELECTRIC
COMPOUND TAPE E12-6
E-Z SET & FORGET PLIERS....D11-8
E-Z TOGGLE A21-5

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

E-F

E-Z WIPES C12-9
Dispenser....C12-9
E-Z VIEW HEAT SHRINK CONNECTORSE10-18B

F • F • F

FABRIC BANDAGES....D14-23
FACE SHIELDS....D13-11, D14-20
FACILITY MAINTENANCE ASSORTMENT .A21-1
FACTORY R134a SYSTEM PORTS....L17-15
FANS, WINTER/SUMMER....G10-3
FARM & EQUIPMENT
WHEEL STUDS and NUTS....H14-1, 5
FAST BONDING ADHESIVE, Q-BOND....C11-2
FAST CURE EPOXY 45....C11-10
FASTBALL ALKALINE
CLEANER/DEGREASER....C12-1
FASTCUT
Sanding Sheets....D10A-7
Wet or Dry Sheets....D10A-6
FASTENERS
Acorn Cap Nuts....A11-8
Metric Hex....A16-16
Stainless Steel....A16-27
B-7 Studs....A12-10
Brass Manifold Nuts....H19-3
Cam Lock Washers....A14-5
Cap Screws, Hex Head....A10-6-10
Grade 2....A10-10
Grade 5....A10-9
Grade 8....A10-7-8
L9....A10-6
Metric....A16-6-10
Stainless Steel....A13-1-3
Metric....A16-27
Carriage Bolts....A12-2-4
Copper Asbestos Washer....L14-11
Cotter Pins, Metric....A16-22
Cotter Pins, Stainless Steel....A13-17
Drill & Tap Screws....A15-7-9
Dry Wall Screws....A15-19
Elevator Bolts....A12-1
External Tooth L/W....A14-5
Eye Bolts....A12-8-9
E-Z Pak....G18-1-9
Finishing Washers....A14-3
Finished Hex Nuts....A11-1-3
Metric....A16-15
Stainless Steel....A13-6
Metric....A16-27
Flange Lock Nuts....A11-8
Metric....A16-16
Flat Washers, Grade 8....A14-1
Flat Washers, Standard....A14-2
Brass....A13-20
Metric....A16-18
Stainless Steel....A13-8-9
Forged Wing Nuts....A11-8
Metric....A16-17
Free Spin Wash Nut (Metric)....A16-17
L9® Cap Screws....A10-6
Hanger Bolts....A12-9
Heavy Hex Nuts....A11-6
Hex Flange Bolts....A12-5-6
Metric....A16-13-14
Hex Head SMS, Unslotted....A15-5
Hex Lock Nuts, Nylon....A11-4-5
Hex Nuts....A11-1-3
Brass....A13-20
Metric....A16-6-10
Hex Rod Couplers....A12-11
Metric....A16-21
Hi-Collar L/W....A14-4
Metric....A16-18
Hi-Nylon Lock Nuts....A11-5
Internal Tooth L/W....A14-5
Jam Nuts....A11-7
Metric....A16-15
Stainless Steel....A16-27
Keps Nuts....A11-7
Lag Screws

F

Galvanized....A15-16
Stainless Steel....A13-6
Steel....A15-15
Lock Washers....A14-4
Metric....A16-18
Stainless Steel....A13-9
Machine Screw Washer....A14-3
Machine Screws....A15-10-15
Brass....A13-18-19
Metric....A16-19-20
Stainless Steel....A13-13-16
Machine Screw, Fillister....A15-14
Machine Screw, Hex....A15-15
Machine Screw, Metric....A16-19-20
Stainless Steel....A16-29-30
Machine Screw, Phillips Flat....A15-11
Metric....A16-20
Machine Screw, Round....A15-12
Combination....A15-11
Machine Screw, Pan....A15-13
Machine Screw Nuts....A11-7
Brass....A13-20
Stainless Steel....A13-7
Nylon Insert Lock Nuts....A11-4-5
Metric....A16-16
Stainless Steel....A13-7
Nylon Washers....A14-3
Oversize Washers, Fender....A14-3
Plow Bolts....A12-1
Roll Pins, Metric....A16-24
SAE Hi-Nuts, Nylon....A11-5
Self-Seal Drill/Tap....A15-8
Sheet Metal Screws....A15-1-5
Sheet Metal Screws SS....A13-11-13
Slotted Hex Washer Head SMS....A15-4
Slotted Hex Nuts....A11-7
Socket Cap Screws....A10-10-12
Button Head....A10-16
Flat Head....A10-14
Low Head....A10-13
Metric....A16-11-13
Stainless Steel....A16-28
Shoulder....A10-15
Stainless Steel....A13-4-5
Tamperproof....A10-16-17
Socket Set Screws
Cup Point....A15-21
Knurled Point....A15-21
Metric....A16-21
Stainless Steel....A16-29
Socket Set Screws Metric....A16-21
Socket Set Screws SS....A13-4
Spring Center Bolts....A12-7
Spring Washers, Bowed....A14-3
Square Set Screws....A15-20
Stamp Wing Lock Nuts....A11-9
Stove Bolts....A12-7-8
Stover Lock Nut Grade 5....A11-3
Stover Lock Nut Grade 8....A11-3
Stover Lock Nut L9®....A11-3
Studs, Metric....A16-22
Tamper Proof M/S....A15-19
Tamper Proof S/M Screw....A15-20
Thread Rod Coupling....A12-11
Metric....A16-21
Threaded Rod....A12-10
Metric....A16-21
Rod B-7....A12-10
Threaded Rod, SS....A13-9
Brass....A13-19
Metric....A16-30
Torx Floorboard Screw....A15-18
Unthreaded Rod....A12-10
Well Nuts....A11-9
Wing Nuts....A11-8-9
Metric....A16-17
Wood Screw Slot Flat....A15-16
Wood Screw Slot Round....A15-18
Wood Screw Slot Oval....A15-17
Wood Screws, SS....A13-10-11
Brass....A13-17-18
FASTUBE
Air Brake Fittings....B13-23-24

F

Caplugs....B13-32
Compression Fittings....B13-12-13
FELT TIP MARKERS....D14-15
FENDER WASHERS....A14-3
18-8 Stainless Steel....A13-9
Metric....A16-18
FENDER, WHEEL OPENING
Retainers & Clips....J10-16-28
FERRULE
Aluminum Cable & Stops....A20-5
FIELD I.D. TAG....A20-3
FIBER DISCS....D10A-10
FIBER WASHERS....A14-6
FIBRE GASKETS....L14-11
FILE & RASP SET....D10C-43
FILE CARD/BRUSH....D10C-43
FILES
Axle Handled Bastard....D10C-43
Cantsaw....D10C-42
Card/Brush....D10C-43
Flat Bastard....D10C-42
Half Round....D10C-42
Handles....D10C-43
Mill....D10C-42
Round Bastard....D10C-42
Round Chain Saw....D10C-42
Rasp Set....D10C-43
Shoe Rasp (4 in 1)....D10C-43
Square....D10C-42
Taper Saw....D10C-42
Three Square....D10C-42
FILTER SERVICE SOCKETS....G16-2-4
FILTER WRENCHES
Adjustable....G16-1
"Big Range"....G16-1
Import....G16-1
"Swivel Grip"....G16-1
"The Claw"....G16-1
Wide Range....G16-1
FILTERS
Automatic Transmission....H18-1-9
EGR Valve Carbon Filter
Gaskets....L10-2
Fuel....L12-1-3
FINISHED HEX NUTS
Brass....A13-20
Grade 8 Alloy....A11-2
Metric....A16-15
Silicon Bronze....A13-29
Stainless Steel....A13-6, 8
Metric....A16-27
Standard, Steel, Grade 5....A11-2
FINISHING WASHERS
Steel, N.P....A14-3
Brass, N.P....A13-20
FIRE & RESCUE RECIPROCATING
SAW BLADE....D10C-39-40
FIRST AID KITS & SUPPLIES....D14-22-24
FITTINGS
Air Brake....B13-23-28
Barb....B13-18
Barb-Tite....B13-21
Brass Tubing....B13-7-8
Brass Hose Ends....B13-20
Compression....B13-5, 10
Composite Push-To-Connect....B13-14-15
Copper Sweat Pipe....B10-7
Dubl-Barb Brass....B13-21
Fastube Instant Tube....B13-12-13
Fuller Transmission....B13-18
Grease....B15-1-3, L14-12-13
Inverted Flare....B13-5, 7-8
Malleable Iron Pipe....B10-1-2
Metric Push-To-Connect....B13-16-17
PVC Schedule 40 Pipe....B10-5
PVC Schedule 80 Pipe....B10-6
Self-Align....B13-11
Stainless Steel Pipe....B10-3-4
FIVE IN ONE DEMOISTURANT....C10-3
FLANGED LOCKING BOLTS & NUTS....A12-6
Grade 8....A12-6
Grade "G"....A12-6
Metric....A16-13-14

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

F

Serrated A12-6
FLANGES
Catalytic Converter Laminated
Steel Split Kit H19-2
Chrysler Split H19-2
Ford Split Kit H19-2
GM Converter Repair Kit H19-2
FLAP DISCS, BLUE FLASH D10A-5-6
FLAP WHEELS D10A-14
FLARE NUT WRENCH....D11-4
FLASHERS
Alternating G13-1
Electronic....G13-1
24 Volt G13-1
FLASHLIGHTS....D12-4
Bulbs D12-4
FLAT HEAD SLOTTED CAP SCREWS....A10-10
FLAT HEAD SOCKET CAP SCREWS....A10-14
FLAT HEAD PHILLIPS TYPE
"F" SCREWS....A15-18
FLAT TIRE ELIMINATOR, SLIME™ H11-7
FLAT WASHERS
Brass A13-20
Galvanized....A14-4
Grade 8....A14-1
Hi-Strength Steel....A14-2
Metric A16-18
Nylon A14-3
Silicon Bronze....A13-21
Stainless Steel....A13-8-9
Standard Alloy....A14-2
Steel A14-2
Supralloy, L9®....A14-1
FLEET MAINTENANCE ASSORTMENT E15-16
FLEET SERVICE
7-Way Circuit Checker....G15-25
Air Brake Parts & Accessories....G15-27
Back-Up Alarm Activating Switch G15-20
Back-Up Alarms G15-20-22
Brackets....G15-4, 20, 26
Conspicuity Tape....G15-19
Control Cables....G15-26
Evacuator® Heavy Duty
Electronic Back-Up Alarms....G15-20
Flat Male 4-Prong Connector G15-25
Fluorescent Orange Guide Kits G15-26
Gladhand/Seals....G15-27
GM License Plate Lamp G15-20
Heavy Duty Back-Up Alarm....G15-21
Hold-Down Latches G15-26
Hose Protectors....G15-24
Junction Box....G15-16
Latches & Brackets....G15-26
Light Duty Electronic Solid State
Alternating Alarm G15-21
Lighting
Arrow....G15-1
KD G15-1
Star....G15-22
Truck-Lite
Back-Up Lighting G15-11
Clearance & Marker Lighting ..G15-5-8
Conspicuity &
Reflector Systems....G15-12
Harness Systems....G15-16
Identification Bar Lighting G15-9
Interior & Utility Lighting....G15-12
License G15-11
Mounting Accessories G15-13-14
Receptacles & Accessories G15-16
Sockets & Plugs....G15-15
Stop, Turn & Tail Lighting G15-9-10
Strobe G15-10
Val-U....G15-17-18
Weldon....G15-2
Maintennace Asst. E15-16
Mirrors
Arm & Mounting Only G15-4
Bracket....G15-4
Bus Boy....G15-4
Convex....G15-3-4
Delbar....G15-3
Double Nickel....G15-3
Mini Hawk-Eye G15-4

DESCRIPTION GROUP / PAGE

F

MirrorLite....G15-3
Miscellaneous G15-4
Retrac....G15-4
West Coast....G15-3
NYK Corrosion Preventive
Compound....G15-16
Plug Cleaners....G15-25
Reflective Tape....G15-19
Reflectors G15-12, 19
Strobes....G15-22-23
Trailer Lighting Cable G15-25
Trailer Taillite Converter G15-25
Trailer Wire Connectors G15-24-25
Triangle Reflector Kit....G15-12
Truck Hardware G15-26
Universal License Plate Bracket....G15-20
Universal Snow Plow/ATL Lights....G15-23
West Coast Mirror....G15-3
Work Lamps G15-23
FLEX TUFF GLOVES....D14-19
FLEXEEL® REINFORCED POLYURETHANE
STRAIGHT HOSE....B11-1
FLEXIBLE BUMPER & TRIM PAINT C13-4
FLEXIBLE HOLDDOWN LATCH....G15-26
FLEXTITE "LAPJOINT" BAND CLAMPS H19-4
FLO-THRU PARTS CLEAN BRUSH D14-7
FLOORBOARD SCREWS....A15-18
FLOOR BRUSH, 36" POLYPROPYLENE D14-9
FLOOR COVERS
Paper Floor-Mate® Plastic Coated D14-14
FLOORTIGHT RIVETS....A19-18
FLUORESCENT BULB D12-1
FLUORESCENT ORANGE GUIDE KITS....G15-26
FLUORESCENT PAINT C13-3
FLUORESCENT MESH SAFETY FLAG....D14-26
FLUORESCENT TROUBLE LIGHT D12-2
FLUORESCENT WORK LIGHTS....D12-3
FLUSH
Radiator C14-3
FLUSHING TEES....L15-2
FLUX PASTE....D13-10
FLUX POWDER....D13-10
FLY AWAY WIPES....C14-1
FMX JCASE™ SERIES FUSES
High Amp....G14-3
Low Profile....G14-3
FOAM BRUSHES D14-10
FOAM EXPANDO-INSULATION....C11-2
FOLD OVER GASKETS L14-10
FOOD GRADE CHAIN LUBE,
INDUSTRIAL C10-5
FOOD GRADE SILICONE....C10-4
FOOD GRADE SILICONE, INDUSTRIAL C10-4
FOOD PROCESSING & SERVICE
STAINLESS STEEL HARDWARE ASST....A13-3
FOOT OPERATED FLOOR SWITCH G12-3
FORD FUEL FILTER CLIP L12-4
FORD SOCKETS/PIGTAILS
Electrical Repair Harness....G11-2
Engine Management G11-5
Heating/A/C Cooling System....G11-5
Interior/Dash....G11-5
Lighting....G11-3
Miscellaneous....G11-5
FORM-A-GASKET....C11-3
FORMED HEATER HOSE L15-1
FRAMES, HACKSAW D10C-34-35
FREEZE & RELEASE C10-4
FRESH N'KOOL....C12-13, L17-20
FRESH WAVE NATURAL ODOR
ELIMINATOR C14-4E
FRICTION TAPE....D14-1
FRONT INTRO PAGES ....INTRO PAGES A - E
FRONT WHEEL DRIVE
Boot Clamps H17-3
C/V Joint Boot Kit....H17-2
C/V Joint Grease C10-7
FUEL
Caps L13-2
Filters L12-1-3
Chrysler/Dodge/Jeep L12-3
Ford....L12-2
General Motors L12-1
Import....L12-3

DESCRIPTION GROUP / PAGE

F-G

Universal....L12-1
Filter Clip L12-4
Injection Hose....L11-1
Clamps....L11-1
Injector Cleaner C14-2
Air System Intake C12-10
Diesel C14-2
Line/Vacuum Hose L11-1
Line Accessory Kit....L12-6
Line Clips....L12-4
Line Quick Disconnects & Clips L12-5
Line Repair....L12-5-6
Line Replacement Kit L12-6
Line Retainer Clips L12-4
Tank Repair Kit....C11-16
Tank Valves....B13-28-29
Trans/Air Condition Disconnect Set....G16-11
FUEL SYSTEM PARTS....L11
Fuel Injection Hose....L11-1
Fuel Injection Hose Clamps L11-1
Fuel/Line Vacuum Hose L11-1
Hoses L11-1
Springs L11-3
Vacuum Caps....L11-3
Vacuum Hose Fittings L11-2-3
FUEL TANK REPAIR KIT C11-16
FULLER TRANS. BRASS FITTINGS....B13-18
FUNNEL G16-8-9
FUSE
Clip Adapter E10-30
Holders G14-4, 7
Panels....G14-7
Taps E10-30, G14-4
Testers & Puller G14-4
FUSES
3 AG (AGC) Fast Acting G14-4
(ATO/ATC & E-Z) Fuse Holders with
Protective Cap G14-7
Bolt-On G14-4
Cartridge....G14-4
Ceramic G14-2
E-Z (ATC, ATO)....G14-1
FLNR Dual Element
Time Delay Cartridge....G14-4
Glass G14-2
High Amp & Holders G14-4, 7
JCase™ FMX Series
High Amp G14-3
Low Profile G14-3
LED Indicator Glow....G14-1
Low Profile Mini G14-1
Maxi™ G14-1
Mini® G14-1
PAL™ G14-3
FUSIBLE LINKS....G14-3
FWD C/V JOINT UNIVERSAL BOOT KITS ..H17-2

G • G • G

GFCI E13-1
GM BRAKE CALIPER THREAD
REPAIR KIT A17-6
GALVANIZED FASTENERS
Carriage Bolts A12-4
Flat Washers....A14-4
Hex Nuts A11-6
Lock Washers A14-4
Self Sealing, Bonded Washers A14-6
GALVANIZED PIPE FITTINGS B10-1-2
GALVANIZING COMPOUND C13-3
GARAGE EXHAUST TUBING D14-6
Dyno Hose....D14-6
GARTER SPRINGS L17-12
GAS CANS
Spill-Proof, Plastic....D14-16
Steel Safety D14-16
GAS LINE ANTI-FREEZE C14-2
GAS STABILIZER C14-2
GASKET
Adhesive....C11-3-4, 12-13
Air Conditioning

DESCRIPTION GROUP / PAGE

G

Metal & Fiber L17-3
Cleaner....D10A-15
Copper Brake Hose H13-3
Drain Plug L14-9-11
Fibre L14-11
Fold Over....L14-10
Ford Rubber Insert L14-9
Fractional....L14-11
Fuel Inlet....L12-4
Honda....L14-10
Insert L14-9
Material....L15-1
Mercedes/BMW....L14-10
Metric Drain Plug....L14-11
Permatex® The Right Stuff C11-13
Remover C12-11
Ribbed Nylon....L14-9
Saturn....L14-9
Sealant-Adhesives
Aluminum C11-1
Copper Sealer C11-4
High Tack Spray & Brushable C11-4
Tack And Bond....C11-15
Seal-Rite....L14-7
Sheet Material L15-1
Specialty....L14-9-10
Toyota L14-10
Viton Insert L14-9
Volvo L14-9
GATE VALVES B10-8
GAUGES
Drill D11-12
Inch Nut & Bolt....D11-12
Metric Bolt & Nut....D11-12
Plastic D11-12
Screw & Wire D11-12
Thread D11-12
GAUGES, TIRE PRESSURE G16-16
GEAR AND CHAIN
Gear-Kote C10-5
Heavy Duty Lubricant
Aerosol C10-5
Caulking Style Cartridge....C10-8
Moly Gear & Chain Lube C10-5
Lubriplate....C10-5, 8
GEL GRAFFITI REMOVER C12-2
GELTABS, PAN-STICKER C14-6
GEL-TAC EXTRA WITH TEFLON C10-5
GEL VANDAL MARK REMOVER....C12-2
GENERAL PURPOSE ANTI-SEIZE C10-11
GENERAL PURPOSE GREASE....C10-11
GLADHANDS & SEALS G15-27
GLASS CLEANER C12-2, 12
GLASS CLOTH HI-TEMP TAPE D14-1
GLASS-N-DASH MULTI-USE CLEANER...C12-12
GLASSES, SAFETY....D14-21-22
GLOVES D14-18-19
Chemical Resistant....D14-19
Disposable
Latex D14-19
Nitrile D14-19
Vinyl D14-19
Dotted String Knit....D14-19
Driving D14-18
Flex Tuff....D14-19
Insulator....D14-19
Kevlar D14-18-19
Microflex
Diamond Grip™....D14-19
Nitron One®....D14-19
Polar Insulated Leather Palm D14-19
PVC Non-Slip....D14-19
Ranch Hand....D14-18
Utility D14-18
Work
Brown Jersey, with & without D14-19
Heavy Canvas....D14-18
Heavy Duty....D14-18
GLOW LED INDICATOR FUSES G14-1-2
GLUE
E-6000 ....C11-2
Future C11-4
Gorilla® C11-3

G

Instantbond 110 ....C11-4
Rear View Mirror....C11-16
Super Glue....C11-4
Super Glue (Permatex)....C11-13
Super Glue Gel (Permatex) C11-13
GM BASE MOUNT E15-15
GM COOLER LINE RETAINING CLIPS
W/O-RINGS H17-2
GM SOCKETS/PIGTAILS
Alternator/Regulator G11-6
Electrical Repair Harness....G11-3
Engine Management G11-7
Heating/A/C Cooling System G11-7
Ignition System....G11-6
Interior/Dash....G11-6
Miscellaneous....G11-7
GOGGLES, WELDING D13-7
Safety D14-21
GOJO
Hand Cleaner....C12-8
Hand Medic....C12-8
Wall Mount Dispenser C12-8
Pro 2000 Industrial Dispens. System....C12-8
Wipes C12-8
GOLD GREASE, 24K....C10-13
GORILLA EPOXY....C11-10
GORILLA GLUE®....C11-3
GORILLA GLUE® PEN....C11-3
GORILLA SUPER GLUE....C11-3
GORILLA TAPE®....D14-3
GRAB HOOK....A20-6
GRAVEL GUARD II, UNDERCOAT C13-1
GREASE
Anti-Seize C10-11-12
Brake Caliper C10-13
Chassis....C10-10
C/V Joint C10-7
Dielectric Silicone C10-12
Freewheel....C10-14
Gear Shield....C10-5, 8
Gear & Chain & Cable C10-5
General Purpose....C10-13
Gold, Non-,Melt....C10-13
Moly-Lube....C10-5-6
Multi-Purpose C10-10-11
Red, Aerosol....C10-4
Tune-Up, Permatex® C10-12
Ultra-Plex Premium Red E.P. C10-13
Wheel Bearing C10-13
White Lithium....C10-7
White, Aerosol C10-6
White, Tube C10-8
GREASE FITTING EASY-OUT
TOOL B15-1, G16-8, L14-12
GREASE FITTINGS
Caps B15-1, L14-12
Easy-Out Tool G16-8, L14-12
Fractional....B15-2-3, L14-12-13
Hydraulic L14-12-13
Metric B15-2-3, L14-12-13
Stainless Steel....B15-2-3, L14-12-13
GREASE GUN....G16-8
Accessories G16-6
Air G16-8
GREEN KLEEN GRK420 ....C14-5
GREZ-OFF® HEAVY DUTY DEGREASER ...C12-3
GRINDING BRUSHES & WHEELS .D10A-3, 11-12
GRINDING DISCS....D10A-8, 10
Roloc D10A-10
GRINDING WHEELS D10A-11-12
Dispenser M10-14
Dresser....D10A-12
GRILLE, COWL & SPLASH SHIELD
Retainers & Clips....J10-16-28
GRIP-KUT MESH CLOTH ROLL....D10A-7
GRIP-N-SERT THREADED INSERTS A17-2
GROMMETS
Body J10-32-34, 38, 41
Open / Closed Nylon....E12-15
Rubber E12-14, J10-41
Standard Nylon E12-15
Transmission H17-1
Universal Nylon....E12-15

G-H

GROOVE JOINT PLIERS....D11-7
GROUND FAULT CIRCUIT INTERRUPTER E13-1
GROUND STRAPS....E15-3
GUIDE BOLTS....H13-2
GUIDE PINS H13-2
GUN
H.D. Hot Air Heat....D11-14
Rivet A19-26
GUNK® ENGINE DEGREASER....C12-11

H • H • H

HACKSAW BLADES....D10C-34-36
HACKSAW FRAMES
Close Quarter....D10C-35
High Tension....D10C-35
Low Profile D10C-35
Mini D10C-35
Standard....D10C-35
HAIR PINS, STAINLESS STEEL A13-16
HALOGEN
Capsules G13-1-2
Competitive Edge....G13-1
Headlamps G13-2
HAMMERS D11-11
HAMMERS, FOR WELDING D13-6
HAND CLEANER C12-5-9
Citra-Clean....C12-9
Dispenser C12-6, 8-9, M10-16
Gojo C12-8
Invisible Glove™ C12-8
Wonder C12-9
Worx™ C12-5
HAND CLEANER TOWELS....C12-5, 8-9
HAND CREAM....C12-8
HAND PADS D10A-16
HAND SANITIZERS C12-8
HAND SPRAYERS....C14-7-8
HAND TOOLS
Acid Brush D14-7
Aviation Snips D10C-43
Ball Driver, Hex Key....D11-5
Bit Holders D11-10
Blind Rivet Gun....A19-26
C-Clamp....D11-8
Center Punches D11-11
Chisels....D11-11
Clamps D11-8-9
Cobra Pliers....D11-7
Compact H.D. Crimper D11-13
Crimper/Stripper D11-13-14
Open Barrel Term G16-11
Crow Bar....D11-11
Electrical Service
A/C Sensor....D11-14
Circuit Testers D11-14
Voltage Detector....D11-14
Wire Piercing Guide D11-14
Flo-Thru Parts Brush D14-7
Gauges D11-12
Hammers
Ball Pein D11-11
Claw D11-11
Dead Blow....D11-11
Rubber Mallets D11-11
Soft Face....D11-11
Welding D13-6
Heat Guns....D11-14
Hex Bit Socket Set....D11-2
Hex Drivers, Magnetic D11-2, 10
Hex Key Sets....D11-5-6
Bondhus D11-5
Hex Keys, Torx D11-6
Hex Keys, Fractional....D11-5
Hex Keys, Metric....D11-5
Hex Keys, Tamperproof....D11-6
Hose Clamp Pliers....G16-12
Hose Cutter, Hand Held G16-12
Insert Bits....D11-1-2, 10
Holders D11-10
Lug Crimpers D11-13

DESCRIPTION GROUP / PAGE

H

Magnetic Hex Drivers D11-2, 10
Magnetizer/Demagnetizer....D11-10
Multi-Grip Universal Socket D11-1
Nut Drivers....D11-4
Offset Box Wrenches....D11-3
Parts Cleaning Brushes....D14-7
Pin Punches....D11-11
Pipe Wrenches D11-4
Pliers
Channellock-Griplock D11-6
Cobra....D11-7
Diagonal Cutter D11-7
E-Z Set & Forget D11-8
Groove Joint....D11-7
Linesman....D11-7
Long Nose....D11-7
Retaining Ring, Internal....D11-7
Retaining Ring, External....D11-7
Slip Joint....D11-6-7
Solid Joint....D11-6
Vise Grip....D11-8
Wire Cutter....D11-6-7
Pry Bar....D11-11
Punches....D11-11
Ratcheting Crimper....D11-3-14
Ratchets
3/8" Drive Spin A Ratchet....D11-3
3/8" Drive Quick Release D11-3
Blackhawk D11-3
Rivet Guns A19-26
Rulers & Gauges
Fractional Drill D11-12
Inch Bolt-Nut Gauge....D11-12
Metric Bolt-Nut Gauge....D11-12
Metric Thread Pitch D11-12
Plastic Rulers D11-12
Pocket Caliper....D11-12
Pocket Ruler....D11-12
Standard Thread D11-12
Tape Rulers....D11-12
Screwdrivers
Blackhawk D11-9
Insulated....D11-9-10
Phillips....D11-9
Precision....D11-10
Ratcheting D11-9
Slotted D11-9
Sheet Metal Cutters D10C-43
Socket Sets
Hex D11-2
Torx® Tamper-Proof....D11-1
Tube Bender B13-31
Tube Cutter....B13-31
Utility Snips D10C-43
Vise Grips D11-8
Wire Cutters....D11-13
Wire Crimpers....D11-13-14
Wrench
Blackhawk D11-4
Combination....D11-3-4
HANDLES
Door, Truck....G15-26
File D10C-43
Mop D14-8
HANDYMAN, DELUXE FIRST AID KIT D14-22
HANGER
Bolts A12-9
Strapping, Perforated....D14-15
HANGERMATE® THREADED ROD
ANCHORING SYSTEM A21-9
HARD HATS....D14-20
HARNESS, TRUCK BATTERY E15-3
HASPS D14-26, G17-10
HAZARD STRIPE TAPE D14-4
HEADLIGHT
Lens Restoration Kit C11-16
Sealed Beams/Headlamps....G13-2
HEAT ABSORBING PASTE D13-8
HEAT BARRIER SPRAY, COOL GEL....D13-8
HEAT GUN D11-14
HEAT SHRINK TUBING E10-18B, E12-8-8B
Dispenser E12-8B
HEATER HOSE....L15-1
Connectors....L15-2

DESCRIPTION GROUP / PAGE

H

Fittings....L15-2
Formed....L15-1
Nylon Elbows....L15-2
Red Insulated L15-1
Silicone....L15-1
HEATER VALVES, MANUAL....B13-29
HEAVY DUTY COBALT DRILLS....D10B-26
HEAVY DUTY DEGREASER, GREZ-OFF® ..C12-3
HEAVY DUTY INDUSTRIAL
FOAM DEGREASER, MAGNUM C12-3
HEAVY HEX NUTS....A11-6
18-8 Stainless Steel....A13-7
HEEL COIL CHAIN....A20-1
HELI-COIL OIL DRAIN PAN REPAIR KIT A17-6
HEX BIT SOCKET SET....D11-2
HEX DIES D10C-28-29
HEX DRIVERS....D11-2, 10
HEX FINISHED NUTS
Grade 2....A11-3
Grade 5....A11-2
Grade 8....A11-2
Supralloy L9®....A11-1
HEX FLANGE BOLTS....A12-5-6
Serrated....A12-6
HEX HEAD CAP SCREWS
Flange Bolts....A12-5-6
GR-2 ....A10-10
GR-5 ....A10-9
GR-8 ....A10-7-8
L9® A10-6
Metric A16-6-10
Silicon Bronze....A13-21
Small Head Metric....A16-10
Stainless Steel....A13-1-3
HEX HEAD, UNSLOTTED SMS....A15-5
HEX KEY, T-HANDLE....D11-5
HEX KEY WRENCH SETS....D11-5-6
HEX KEY WRENCHES, METRIC D11-5-6
HEX NUTS
Acorn, Metric....A16-16
Stainless Steel....A16-27
Brass, Metric....A16-17
Castle, Metric....A16-17
Copper, Metric A16-17
Finished 10.9, Metric....A16-15
Finished 8.8, Metric....A16-15
Flange, Metric A16-16
Free Spinning Washer, Metric A16-17
Galvanized....A11-6
Grade 5 Castle....A11-8
Jam, Metric A16-15
Stainless Steel....A16-27
Left Hand A11-6
Nylon A13-22
Stainless Steel A13-6, 8
HEX SERRATED WASHER HEAD TEKS® ...A15-8
HEX SHANK DRILLS....D10B-22
HEX SOCKET BITS....D11-2
HEX TAP BOLTS A12-4-5
HI-AMP CIRCUIT BREAKERS G14-5
HI-NUTS A11-6
HI PRESSURE MOLY LUBE....C10-6
HI-TECH ENGINE COATING PAINTS....C13-4
HI-TECH INDUSTRIAL EPOXY SYSTEMS C11-11
HI-TORQUE HEAVY DUTY LINER
HOSE CLAMPS....B12-2
HIGH COLLAR SPLIT L/W STEEL....A14-4
HIGH-DENSITY CAN LINERS D14-14
HIGH PRESSURE CONTROL VALVE G16-5
HIGH PRESSURE SWIVEL G16-5
HIGH SPEED STEEL DRILLS....D10B-20-22
HIGH STRENGTH L/W STEEL A14-4
HIGH TACK
Brushable....C11-4
Spray A Gasket....C11-4
HIGH-TEMP COPPER SILICONE
HIGH TEMP GREASE, LUBRIPLATE C10-8
HIGH TEMP RED RTV SILICONE
GASKET MAKER, PERMATEX® C11-1, 13
HIGH TEST CHAIN....A20-1
HITCH PIN COTTERS A18-1
HITCH PINS....A20-11
HOG RINGS J10-37
Pliers J10-37

DESCRIPTION GROUP / PAGE

H

HOLD-DOWN CLIP, CROW (PRY) BAR D11-11
HOLE HOG DRILLS....D10B-24
HOLE SAWS....D10C-41
Arbors D10C-41
HOLLOW WALL ANCHORS
Drive Grips....A21-4
E-Z Toggle A21-5
Master Grips A21-4
Rawl Legs™....A21-5
Rawl Zip-It™ A21-5
Super Toggler® (Toggler™)....A21-4
Toggle Wings and Bolts....A21-3-4
Toggler® Toggle Bolts A21-3
Utility Hook....A21-5
Wall Grips A21-4
HONDA® VEHICLE
Power Steering Fluid C14-4
HONE, DISC BRAKE CYLINDER....G16-13-14
HOOD HOLDER D14-16, G16-1
HOOD LATCHES G15-26
HOOKS
Ceiling....A20-8
Clevis A20-6
Eye A20-7
Grab A20-6
Infinity "S" Hooks....A20-8
"S" A20-8
Safety A20-6
Slip A20-6
Utility A21-5
HORNET & WASP KILLER....C14-1
HORNS
Universal....G12-4
HOSE
Air Brake....B13-27-28
Air Hose Separators G15-27
Air Line....B11-1
Air Tool B11-1-2
Assemblies....B13-27
Cabinet, Hose & Cable....M10-7
Carburetor L11-1
Couplers, Air B11-5-9
Couplers, Water....D14-17
Driveway Signal....D14-16
Fittings B13-23-28
Flexeel® Reinforced Polyurethane
Straight B11-1
Fuel L11-1
Fuel Line, Injection L11-1
Heater....L15-1
Fittings L15-2
Silicone L15-1
Menders....D14-17
Nozzles....D14-17
Protectors G15-24
Push-On
Fabric Cover....B13-22
Rubber Cover....B13-22
Radiator....L15-1
Recoil Air....B11-1
Signal D14-16
Splicer....D14-16
Tees L11-2
Transmission Cooler....H17-2
Vacuum/Wiper....G10-3, L11-1
Water Hose....D14-17
HOSE CLAMPS
Constant Torque B12-2
Ear Style B12-3-4
2" B12-3
Stepless® B12-4
European Style B12-3
Fuel Injection, Type "G" B12-3
General Purpose....B12-1
Hi-Torque Heavy Duty Liner B12-2
Hose Ferrules B12-4
Crimping Tool B12-4
Lined B12-2
Make-A-Clamp B12-3
Micro, Stainless Steel B12-2
Norma Torro® B12-3
Pincers (Plier Tool) B12-4
Spring Action....B12-3
Stainless Steel B12-1

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

H-I

Standard Steel 100%....B12-1
T-Bolt....B12-2
Type "G" Fuel Injection....B12-3
HOSE CLAMP PINCERS....B12-4
HOSE COIL, U-BEND....L15-2
HOSE CUTTER, HAND HELD....G16-12
HOSE ENDS....B13-20
HOSE FERRULES, BRASS....B12-4
Crimping Tool....B12-4
HOSE FITTINGS....L15-2
Elbows....L15-2
Flushing Tees....L15-2
Heater By-Pass Caps....L15-2
Reducing Hose Splicer....L15-2
Reducing Tees....L15-2
Splicers....L15-2
Tees....L15-2
HOSE MENDERS, BARBED....D14-17
HOSE PROTECTORS....G15-24
HOSE REPAIR KIT, 3/8" AIR BRAKE....B13-27
HOT AIR GUN....D11-14
HP8 POWERBOLT RIVETS....A19-21
HUCK FASTENER TOOLING....A19-24
HUCK-FIT POWERBOLT RIVETS....A19-22
HUCKTAINER RIVETS....A19-19
HYDROMETER, WINDSHIELD WASHER SOLUTION....G16-13
HYDRAULIC BRAKE LINES & FITTINGS
Brake Lines
Fittings....H15-2, 4-6
Steel (Fractional & Metric)....H15-1
Unions....H15-2
Copper Flex Line Gasket....H15-5
Hose Inlet Flex Line Bolts....H15-5
Steel & Nylon Tubing Retainer Clips....H15-5
Steel Tubing....H15-2
PVF Coated....H15-2
HYDRAULIC BRAKE FLUID....C14-3
HYDRAULIC GREASE FITTINGS....L14-12-13
HYDRAULIC JACK OIL....C10-9, C14-3
HYDRAULIC O-RINGS....B14-5
HYDRAULIC QUICK COUPLINGS....B11-9
Dust Caps and Plugs....B11-9
HYDRAULIC FITTINGS, CAPPLUGS....B13-32
HYDRAULICS - WEATHERHEAD....B29-1

I • I • I

IBUPROFEN TABLETS....D14-23
ICE-OFF® SPRAY DE-ICER....C14-2
I.D. TAG....A20-3
IGNITION
Sealer....C11-16
Service Tools....G16-11
IGNITION SEALER....C11-16
IN A BUCKET, SCRUBS®....C12-5
INCO DOUBLE LOOP CHAIN....A20-2
INDICATOR LIGHTS....G12-2
INDUSTRIAL BATTERIES....D12-5
INDUSTRIAL BATTERY CONNECTORS....E15-7
INDUSTRIAL CABLE TIES, IN-A-JAR....E12-12
INDUSTRIAL CRC 3-36®....C10-3
INDUSTRIAL FOOD GRADE SILICONE....C10-4
INDUSTRIAL FOOD GRADE CHAIN LUBE.C10-5
INDUSTRIAL ALL NATURAL HAND CLEANER, WORX....C12-5
INDUSTRIAL MARKERS....D14-15
INDUSTRIAL PLUGS....E13-1
"INFINITY" S-HOOKS....A20-8
INFLATOR GAUGE....B11-2
INJECTION CLEANER, DIESEL....C14-2
INJECTION CLEANER, FUEL....C14-2
INLINE BLOW GUNS....B11-4
IN-LINE BUTT CONNECTORS....E12-4A
IN-LINE PORTABLE GFCI RECEPTACLES....E13-1
IN-LINE WATER SEPARATOR & AIR FILTER....B11-2
INNER & OUTER CAP NUTS....H14-10
INSECT CONTROL BUGBAND WRISTBANDS....D14-26

I-J-K

INSECT REPELLANT WIPES....C14-1
INSECTICIDES....C14-1
INSERT BITS....D11-1-2, 10
Holders....D11-10
INSERT GASKETS, GM....L14-10
INSERTS, BRASS WOOD....A11-9
INSPECTION STICKER SCRAPER....D10C-44
INSTANT HAND SANITIZER....C12-8
INSTANT LIQUID & VOMIT ABSORBENT...C14-6
INSULATED SCREWDRIVER....D11-9-10
INSULATION TAPE....L17-20
INSULATOR GLOVES....D14-19
INTEGRAL LED STROBE LIGHTS....G15-12A
INTERLEAF FLAP WHEELS....D10A-14
INTERNAL PIPE WRENCH....D11-4
INTERNAL RETAINING RINGS....A18-7-8
INTERNAL THREAD RESTORERS....D10C-32
INTERNAL TOOTHED LOCK WASHER....A14-5
INVERTED FLARE BRASS FITTINGS..B13-5, 7-8
INVISIBLE GLOVE™ BARRIER CREAM....C12-8

J • J • J

"J" BOLTS....A20-7
"J" SPEED NUTS....A11-10, J10-34-36, 50
J-B WELD....C11-10
JCASE™ FMX SERIES FUSES
High Amp....G14-3
Low Profile....G14-3
JACK CHAIN....A20-2
JACKETED PLASTIC PRIMARY WIRE....E11-3
JAM NUTS, STEEL....A11-7
JIGSAW BLADES....D10C-35
JUMBO ROLL WIPER DISPENSER II....D14-14
JUMPER CABLES....G16-10
JUNCTION BOX....G15-16

K • K • K

KAPOW HEAVY DUTY TOWELS....C12-5
KEEN SERTS, THREAD REPAIRS....A17-3-4
KEPS NUTS, STEEL....A11-7
KEEPER CLIPS....H13-1
KEVLAR ARM PROTECT & GLOVES..D14-18-19
KEY CUTTERS & BLANKS
Cam Locks....G17-10
Cutter Wheel....G17-1
Deburring Brush....G17-1
Hasps....G17-10
Key Blanks
Domestic Automotive....G17-2-4
General Purpose....G17-6-8
Import Automotive....G17-5
Miscellaneous....G17-8-9
RV's....G17-8-9
Tractor....G17-4
Padlocks....G17-9-10
Padlocks Accessories....G17-10
Rings
Heavy Duty....G17-1
Standard....G17-1
Safety Lockout Hasps....G17-10
Tags....G17-1
Utility Locks....G17-10
KEY RINGS
Heavy Duty....G17-1
Standard....G17-1
KEYS
Allen....D11-5-6
Woodruff....A18-9
KEYSTOCK....A18-9
Metric....A16-25
Square....A13-6
KIM TOWELS "BRAG BOX"....D14-12
KING COBRA PLIERS....D11-7
KLEENEX® NONPERFORATED ROLL TOWELS....D14-13
KNIVES....D10C-44-45

K-L

Putty....D10C-44
KNUCKLE & FINGERTIP BANDAGES....D14-23
KOPR-SHIELD®, CONDUCTIVE COPPER COMPOUND....E15-1
KRAFT HAND TOWELS....D14-12
Dispenser....D14-12
KUT KIT™ FIRST AID KIT....D14-22
KWIKEE™ SHOP BAGS....D14-14

L • L • L

LAG SCREWS
Galvanized....A15-16
Stainless Steel....A13-6
Steel....A15-15
LAG SCREW EYE BOLTS....A20-7
LAG SCREW ANCHORS....A21-8
LAMPS
Dashboard....G13-4
Headlight....G13-2
Long Life....D12-1
Super Service....D12-1
Wire....E11-3
LAMP SOCKETS
Chrysler....G11-1-2
Ford....G11-1-2
GM....G11-3-4
Miscellaneous....G11-5
Universal....G11-1, 3
LAP JOINT BAND CLAMPS....H19-4
LATCH KITS, UNIVERSAL SAFETY....A20-8
LATCHES....G15-26
LAZER RECIPROCATING SAW BLADESD10C-38
LEAK DETECTION DYE....G16-11
LEAK LOCK....C11-2, L17-18
LEAK STOP....L17-19-20
LEAK TABLETS, BAR'S....C11-16
LEATHER CLEANER....C12-13
LECTRA-MOTIVE® ELECTRIC PARTS CLEANER....C12-4
LED 7-WAY CIRCUIT CHECKERS
Blade Type....G15-25
Pin Type....G15-25
LED INDICATOR GLOW FUSES....G14-1-2
LED INTEGRAL STROBE LIGHTS....G15-10
LEFT HAND DRILLS....D10B-25
LEFT HAND HEX NUTS....A11-6
LEGS™ ANCHORS....A21-5
LENOX® GOLD™ QUICK CHANGE RETRACTABLE UTILITY KNIFE....D10C-45
LENS CLEANING WIPES....D14-20
LENSES, WELDING HOOD....D13-7
LICENSE PLATE
Bolts, Nuts, Screws & Kits....J10-41-44
Bracket....G15-20
GM Lamp....G15-20
LIFT ARM PIN & BUSHING....A20-11
LIGHTER, SPARK....D13-7
LIGHTING
Arrow....G15-1
Batteries....D12-5
Bayco....D12-3
Extension Cords....D12-2
Flashlights....D12-4
Fluorescent....D12-2-3
KD....G15-1
Lamps, Long Life
Rough Service....D12-1
Super Service....D12-1
Tuffskin....D12-1
Star....G15-22
Trouble Lights....D12-2
Trouble Light Reels....D12-3
Truck-Lite
Back-Up....G15-11
Clearance & Marker....G15-5-8
Conspicuity & Reflector Systems....G15-12
Harness Systems....G15-16
Identification Bar....G15-9
Interior & Utility....G15-12

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

L

License....G15-11
Mounting Accessories....G15-13-14
Receptacles & Accessories....G15-16
Certificate Holder....G15-16
Document Holder....G15-16
Junction Box....G15-16
Sockets & Plugs....G15-15
Stop, Turn & Tail....G15-9-10
Strobe....G15-10
Val-U....G15-17-18
Weldon....G15-2
LIGHTS, INDICATOR....G12-2
LINED HOSE CLAMPS....B12-2
LINERLESS SPLICING TAPE....D14-1, E12-6
LINERS, HIGH-DENSITY CAN....D14-14
LINESMAN PLIERS....D11-7
LINKAGE
Pins, Transmission....H17-1
LINKS
Connecting....A20-4, 5
Quick Repair....A20-5
Security....A20-4
LIQUI-ZYME 600....C14-5
LIQUID BACTERIA - QUICK ACTION CONTROL....C14-6
LIQUID ELECTRICAL TAPE....C11-2, D14-1
LIQUID GRAPHITE....C10-7
LIQUID TIGHT CONDUIT....E12-19
LITHIUM, DURACELL® BATTERIES....D12-5
LOAD BINDERS....A20-3
LOAD BINDER CHAIN....A20-3
LOAD HUGGERS....A20-4
LOBSTER TOOLING....A19-23
LOCK DE-ICER....C14-2, G17-10
LOCK-EASE, LIQUID GRAPHITE....C10-7, G17-10
LOCKING TOOL, SURE GRIP....D11-9
LOCK LINK CHAIN....A20-2
LOCK NUTS
Flange....A11-8
Prevailing Torque....A11-3
LOCKOUT TOOL, THE BIGEASY™....G17-11
LOCK, UTILITY....G17-10
LOCK WASHERS....A14-4
Metric External Tooth....A16-18
Metric Internal Tooth....A16-18
Stainless Steel....A13-9
LOCKS & KEYS....G17-1-11
LOCTITE® THREAD TREATMENT STICKS....C11-5
LONG DRILLS....D10B-22
LONG LIFE LAMPS....D12-1
LONG NOSE PLIERS....D11-7
LOOM
Asphaltic....E12-15
Convoluted Polyethylene....E12-16
Plastic Spiral Wrap....E12-15
Woven Cotton Fabric....E12-15
LOOM & CABLE CLIPS....E12-16-18
Alum. Tubing & Cable Mounting Clips.E12-17
Convoluted Clips....E12-16
Nylon Cable Clamps....E12-18
Steel Insulated Mounting Clips....E12-17
LOW HEAD SOCKET CAP SCREWS....A10-13
"LOW-PROFILE" 3-PRONG CLAW....G16-1
LOW PROFILE SOCKETS....G16-2-4
LOW TEMP GEAR SHIELD LUBE....C10-8
LUBE ADAPTER, RIGHT ANGLE....G16-6
LUBRICANTS
3-In-One Oil....C10-7
Aerosol Chemical Locator Chart....C10-1-2
Air Tool....C10-7
Anti-Seize....C10-11-12
Blaster PB....C10-6
Brake....C10-13
Bulk Chemicals....C10-1
Chain & Gear....C10-5
Cutting Fluids....C10-6-7
Dripless Oil....C10-5
Dry Lubricant....C10-4
Fogging Fluid for Seasonal Storage....C10-15
Food Grade....C10-4-5
Freeze & Release....C10-4
Gear Shield Extra Heavy....C10-8
Graphited Lock Fluid....C10-7

L-M

Greases, Aerosol....C10-4
Greases, Tube & Bulk....C10-8-14
High-Temp Grease....C10-8
Moly....C10-5-6
Omni L/P....C10-9
Penetrants....C10-3
Power Lube....C10-6
Silicone....C10-3-4, 12
Smart Blend® Trans Products....C10-15
SPC No-Stick....C10-8
Tool Coolant....C10-7
Two Cycle Oil....C10-14
Valve/O-Ring Lube & Seal....C10-8, C14-3
WD-40®....C10-6
White Lithium Grease....C10-7
White Lithium Grease w/Teflon Aerosol....C10-6
LUBRICATING TOOLS
Accessories....G16-6
Differential Plug Extractor....G16-7
Drain Pan, Spill-Proof....G16-9
Extension Hoses....G16-6
Funnels....G16-8-9
Grease Fitting Remover....B15-1, L14-12, G16-8
Grease Gun....G16-8
Grease Gun Coupler....G16-6
Grease Gun Rejuvenator Tool....G16-5
High Pressure Control Valve....G16-5
High Pressure Swivel....G16-5
"Low-Profile" 3-Prong Claw....G16-1
Low Profile Sockets....G16-2-3
Needle Nozzle....G16-7
Oil Filter Wrenches....G16-1
Suction Gun....G16-8
Water Nozzle....G16-9
LUBRIPLATE PRODUCTS
630AA Multi-Purpose Lithium Grease....C10-11
630-2 Multi-Purpose Grease....C10-10
1200-2 Multi-Purpose Grease....C10-10
1242 Extreme Pressure....C10-11
3000....C10-10
Air Tool Lube....C10-7
Boat Trailer Grease....C10-13
Chain & Cable Fluid....C10-5
Food Machinery Lubricant....C10-4-5
Gear Shield X-Heavy
Aerosol....C10-5
Caulking Style Cartridge....C10-8
Heavy Duty Tacky Grease....C10-7
High Temp Grease....C10-8
Hydraulic Jack Oil....C10-9, C14-3
Gear Shield....C10-5, 8
Low-Temp 3000-W....C10-10
Mag-1....C10-10
Mo-lith No. 2....C10-10
Motor Assembly Grease....C10-11
Snow Plow Oil....C10-9, C14-3
Snow Plow Quick-Lift....C10-9, C14-3
Spray Lube "A" Multi-Purpose Grease..C10-6
Wheel Bearing Grease....C10-13
White Grease....C10-7
LUG CRIMPING TOOL....D11-13-14
LYNCH PINS....A20-12

M • M • M

MACHINE SCREW NUTS....A11-7
Brass....A13-20
Silcon Bronze....A13-21
Stainless Steel....A13-7
MACHINE SCREW ANCHORS....A21-8
MACHINE SCREW WASHERS....A14-3
Brass....A13-20
Stainless Steel....A13-8-9
Steel....A14-3
MACHINE SCREWS
Anchors....A21-8
Combination Round Head....A15-11
Hex Head

M

Unslotted....A15-15
Unslotted, Trimmed....A13-16
Metric....A16-19-20
Stainless Steel....A16-29-30
Phillips, Flat Head....A15-13
Phillips, Oval Head....A15-11
Phillips, Pan Head....A15-13
Metric....A16-20
Metric Stainless Steel....A16-30
Phillips, Round Head....A15-12
Phillips, Truss Head....A15-14
Slotted, Cheese Head....A16-19
Metric Stainless Steel....A16-29
Slotted, Fillister Head....A15-14
Slotted, Flat Brass....A13-18
Slotted, Flat Head....A15-10
Metric....A16-19
Metric Stainless Steel....A16-29
Slotted, Oval Head
Brass....A13-18
Slotted, Pan Head....A15-13
Metric....A16-19
Stainless Steel....A16-30
Slotted, Round Head....A15-12
Slotted, Round Brass....A13-19
Slotted, Truss Head....A15-14
Stainless Steel....A13-13-16
Torx®, Pan Head....A15-13
MACHINERY BUSHINGS....A14-5
MAGNA-BULB RIVETS....A19-15
MAGNA-GRIP LOCK BOLT RIVETS....A19-16-17
MAGNA-LOK RIVETS....A19-12-13
MAGNETIC DRAIN PLUGS....L14-4
MAGNETIC HEX DRIVERS....D11-2, 10
MAGNETIC PICK UP TOOLS....D11-15
MAGNETIZER/DEMAGNETIZER....D11-10
MAGNUM HEAVY DUTY INDUSTRIAL FOAM DEGREASER....C12-3
MAKE-A-CLAMP....B12-3
MAKE-A-GASKET....C11-1
MALLEABLE IRON PIPE FITTINGS....B10-1-2
Schedule 80....B10-2-3
MALLETS....D11-11
MANDRELS....A19-26
MANIFOLD NUTS, BRASS....H19-3, J10-49
MARINE CABLE....E11-3
MARINE SWITCH....G12-2
MARKER PAINT....C13-2
MARKER PAINT ACCESSORIES....C13-3
MARKERS
Felt tip....D14-15
Industrial....D14-15
Metal....D14-15
Wire & Cable....E12-7
MASKING TAPE
3M Green....D14-5
Utility Grade....D14-3
MASONRY ANCHORS
Double Expansion....A21-8
Drop-In....A21-8
Lag Screw Shields....A21-8
Machine Screw....A21-8
Maxi-Stud....A21-7
Rawl Hammer Drive Pins....A21-6
Rawl Zamac Nailin....A21-6
Stud Bolt....A21-8
Tapcon® Fasteners....A21-6
Titen™ HD Threaded....A21-7
MASONRY CUT-OFF WHEELS....D10A-12
MASONRY DRILLS....D10B-22
MASS AIR FLOW SENSOR CLEANER, CRC....C12-11
MAXI CIRCUIT BREAKERS....G14-6
MAXI-LUBE, WHITE GREASE....C10-4
MAXI-STUD ANCHORS....A21-7
MCKANICA SILICONE SEALANTS....C11-12
MEASURING CUP....L17-20
MECHANICS WIRE....D14-15
MEMOR-EZE....G16-10
MEMORY POWER UNIT....G16-10
METAL CUT-OFF WHEELS....D10A-12-13
METAL DEVIL® CIRCULAR SAW BLADES....D10C-39
METAL DRUM PUMP....C14-7
METAL EPOXY

DESCRIPTION GROUP / PAGE

M

Fast Cure "45"....C11-10
Putties
Steel....C11-10
Tubes
J B Weld....C11-10
METAL-ICE CUTTING FOAM....C10-7
METAL MARKERS....D14-15
METAL SHEARS....D10C-43
METERED AIR FRESHENER SPRAY....C14-4
Dispenser....C14-4
METRIC
Copper Washers....A16-19
Dowel Pins....A16-25
Drain Plugs....L14-3-6
Fender Washers....A16-18
Grease Fittings....B15-1-3, L14-12-13
Grip-N-Serts....A17-2
Hex Dies....D10B-28-29
Keystock....A16-25
Nylon Tubing....B13-30
O-Rings....B14-3
Small Head Cap Screws....A16-10
Taps....D10B-27-30
Thread Repair Inserts....A17-2
METRIC FASTENERS
Acorn Nuts....A16-16
Stainless Steel....A16-27
Assortments
16 Bin....A16-3
18 Drawer....A16-3
40 Bin....A16-2-3
80 Bin....A16-1-2
Plastic Trays....A16-5
Steel Trays....A16-4-5
Cap Screws
10.9 Coarse....A16-6
10.9 Fine....A16-7
8.8 Coarse....A16-8-9
8.8 Fine....A16-10
Button Head Socket....A16-13
Flat Head Socket....A16-12
Stainless Steel....A16-28
Small Head (Japanese)....A16-10
Socket Head....A16-11-13
Stainless Steel....A16-27
Castle Nuts....A16-17
Cone Point Hex Bolts....A16-14
Copper Plated Lock Nut....A16-17
Copper Sealing Washers....A16-19
Cotter Pins....A16-22
Dowel Pins....A16-25
External Tooth Lock Washers....A16-18
Fender Washers....A16-18
Finished Hex Nuts....A16-15
Brass....A16-17
Stainless Steel....A16-27
Flange Bolts....A16-13-14
Flange Nuts....A16-16
Flat Washers....A16-18
Stainless Steel....A16-27
Free Spinning Washer Nut....A16-17
Gaskets....A16-19
Hex Head Cap Screws....A16-6-10
10.9 Coarse....A16-6
10.9 Fine....A16-7
8.8 Coarse....A16-8-9
8.8 Fine....A16-10
Small Head (Japanese)....A16-10
Stainless Steel....A16-27
Hex Nuts
Brass....A16-17
Cap, Acorn....A16-16
Castle....A16-17
Copper....A16-17
Finished 10.9....A16-15
Finished 8.8....A16-15
Flange....A16-16
Free Spinning Washer....A16-17
Jam....A16-15
Stainless Steel....A16-27
Nylon Insert Lock Nut....A16-16
Prevailing Torque Lock Nut....A16-15
Stainless Steel....A16-27

M

Washer....A16-16
Hex Rod Couplings....A16-21
Internal Tooth Lock Washers....A16-18
Jam Nuts....A16-15
Keystock....A16-25
Lock Nuts....A16-16
Nylon Insert....A16-16
Prevailing Torque....A16-15
Stainless Steel....A16-27
Lock Washers....A16-18
Stainless Steel....A16-27
Low Head Socket....A16-11
Machine Screws
Cheese Slotted....A16-19
Flat Phillips....A16-20
Flat Slotted....A16-19
Oval Phillips....A16-20
Pan Phillips....A16-20
Pan Slotted....A16-19
Stainless Steel....A16-29-30
Nylon Lock Nuts....A16-16
Prevailing Torque Nuts....A16-15
Push Nuts....A16-17
Push Connect Metric
Brass Fittings....B13-16-17
Retaining Rings....A16-23-24
Rod Couplings....A16-21
Roll Pins....A16-24
Roller Chain, British Standard....A16-22
Set Socket Head Screws....A16-21
Socket Head Cap Screws....A16-11-13
Stainless Steel....A16-28
Socket Head Shoulder Screws....A16-12
Socket Set Screws....A16-21
Stainless Steel....A16-29
Speed Nuts, "U" Type....A16-17
Spring Lock Washers....A16-18
Spring Pins....A16-24
Stainless Steel....A16-26-30
Studs
Double End....A16-22
Full Thread....A16-22
Threaded Rod....A16-21
Metric Stainless Steel....A16-30
Washers
Copper....A16-19
Fender....A16-18
Flat....A16-18
Hi-Collar Lock....A16-18
Split Lock....A16-18
Spring Lock....A16-18
Stainless Steel....A16-27
Wing Nuts....A16-17
MEYERPLIER....D11-8
MICROFLEX GLOVES
Diamond Grip™....D14-19
Nitron One®....D14-19
MID RANGE EARMUFF....D14-21
MIG WELDING WIRE....D13-5
MICROFIBER CLEANING CLOTHS....D14-12
MILDEW & STAIN REMOVER, DEVOUR....C14-5
MINIATURE BULBS....G13-4-5
Competitive Edge....G13-4-5
MINI TORCH....D13-10, E10-18A
MINUTE MEND EPOXY PUTTY....C11-10
MIRRORS
Arm & Mounting Only....G15-4
Bracket....G15-4
Bus Boy....G15-4
Convex....G15-3-4
Delbar....G15-3
Double Nickel....G15-3
Mini Hawk-Eye....G15-4
MirrorLite....G15-3
Miscellaneous....G15-4
Retrac....G15-4
West Coast....G15-3
MISCELLANEOUS ABRASIVES....D10A-16-17
3M Roloc™ Bristle Discs....D10A-17
Bristle Discs & Brushes....D10A-17
Bronze Wool....D10A-16
Steel Wool....D10A-16
MO-LITH NO. 2 GREASE....C10-10

M-N

MONOBOLT RIVETS....A19-14
MOULDING FASTENERS,
UNIVERSAL TYPE....J10-37
MOUNTING CLIPS
Aluminum Tubing & Cable....E12-17
Steel Insulated....E12-17
MOLY GEAR & CHAIN LUBE....C10-5
MOLY LUBRICANT....C10-6
MOLYBDENUM GREASE....C10-10
MONOBOLT STRUCTURAL RIVETS....A19-14
MOP
Handle....D14-8
Head....D14-8
Wringers....D14-8
MOTOR ASSEMBLY GREASE....C10-11
MOTORS
Assembly Grease....C10-11
MOULDING ADHESIVE....C11-14-15
MOUNTED GRINDING WHEELS, HD....D10A-12
MOUNTING CLIPS
Aluminum Tubing & Cable....E12-17
Loom & Cable....E12-16
Nylon....E12-18
Steel Insulated....E12-17
MRO HIGH SOLIDS INDUSTRIAL PAINTS .C13-2
MUFFLER
Cement....C11-16
Clamps
Heavy Duty....H19-1
Standard....H19-1
Truck
Heavy Duty....H19-1
Welded....H19-1
Hangers....H19-1
MUFFLER CEMENT....C11-16
MULTIPLE OUTLET STRIP....E13-1
MULTIPLE WALL HEAT SHRINK TUBING..E12-8
MULTIPLE WIRE HEAT SHRINK TUBING E12-8A
MULTI-GRIP RIVETS....A19-6
MULTI-GRIP SOCKET....D11-1
MULTI-LINK STEP-DOWN
BUTT CONNECTORS....E10-14A-B
MULTI-LUBE, 5 IN 1....C10-3
MULTI-PURPOSE SEALANT, SEAL-IT....C13-1
MULTI-STUD RING TONGUES....E10-5-7
MULTI-USE CLEANER, GLASS-N-DASH .C12-12
MULTILINK TERMINALS....E10-12-18
MUSIC WIRE....D14-15

N • N • N

NATURAL ODOR ELIMINATOR,
FRESH WAVE....C14-4E
NEEDLE, TRUCK CLOSED-EYE....H11-6
NEVER•SEEZ® ANTI-SEIZE....C10-12
NON-ACID COIL CLEANER
& RENOVATOR, COIL FOAM....C14-6
NON-FERROUS
Assortments....A13-1
Brass....A13-17-20
Cap Screws
18-8 Stainless....A13-1-2
316....A13-3
Brass....A13-19
Silicon Bronze....A13-21
Carriage Bolts....A13-6
Cotter Pins....A13-17
Drill N' Tap Screws....A13-10
Hi-Nuts....A13-20
Keystock....A13-6
Lag Screws....A13-6
Machine Screws
Brass....A13-18-19
Stainless....A13-13-16
Metric....A16
Nuts
Brass....A13-20
Silicon Bronze....A13-21
Stainless....A13-6, 8
Nylon....A13-22
Sheet Metal Screws....A13-11-13

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

N

Silicon Bronze....A13-21
Socket Head Cap Screws
18-8 Stainless Socket Head....A13-4-5
18-8 Stainless Flat Head....A13-5
18-8 Stainless Button Head....A13-5
Socket Head Shoulder Screws....A13-4
Socket Set Screws....A13-4
Stainless Steel....A13-1-17
Teks® Screws....A13-10
Threaded Rod
Brass....A13-19
Stainless....A13-9
Washers
Brass....A13-20
Fender....A13-9
Silicon Bronze....A13-21
Stainless....A13-8-9
Wood Screws
Brass....A13-17-18
Stainless....A13-10-11
NON-KINK AIR HOSE....B11-1
NON-LEAD ADHESIVE WHEEL WEIGHTS.H10-6
NON-LOADING SANDPAPER....D10A-7
NON-MARKING COUPLERS....B11-8
NON-MELT GREASE, RED....C10-14
NON METALLIC ANTI-SEIZE....C10-12
NON-SLIP, SAF-STEP TAPE....D14-4
NON-WOVEN ABRASIVES....D10A-14-16
3M Products
Clean 'N Strip Discs....D10A-14
Flap Wheels
100% Non-Woven....D10A-14
Interleaf....D10A-14
Strip-It Discs....D10A-16
Surface Conditioning Hand Pads....D10A-16
Surface Preparation Discs....D10A-14-16
Twist-Lock Disc Assortments....D10A-15
NORMA TORRO HOSE CLAMPS....B12-3
NOSEPIECES (SPECIAL MANDREL)....A19-26
NOZZLE, WATER HOSE....D14-17
NUT DRIVER....D11-4
NUT & ROUNDED BOLT REMOVER KITS,
3/8" DRIVE TIGHT GRIP....D11-1
NUTS
Acorn Cap....A11-8
Metric....A16-16
Stainless Steel....A13-6, 8
Barrel....A11-10
Body....J10-32-34
Bolt & Nut Retainers....A11-11
Brass Manifold....H19-3
Brass Wood Inserts....A11-13
Bumper Nuts....J10-36
Caged
"J"....A11-10, J10-50
Square....A11-10
Castle, Grade 5 Hex....A11-8
Castle, Metric....A16-17
Claw Prong Tee....A11-9
Clinch....A17-1, J10-52
Expansion....J10-51-52
Extruded "U"....A11-10
Finished, Brass....A13-20
Flanged Locking....A11-8
Galvanized....A11-6
Heavy Hex....A11-6
18-8 Stainless Steel....A13-7
A194-2H....A11-7
Hex Finished
Brass....A13-20
Grade 2....A11-3
Grade 5....A11-2
Grade 8....A11-2
Metric....A16-15
Stainless Steel....A13-6, 8
Supralloy L9®....A11-1
Hex Flange....A11-8, J10-49
Hex Flange Lock, Grade G....A11-8
Hex L9®....A11-1
Hex Grade 5....A11-2
Hex Grade 8....A11-2
Hex Jam, 316 Stainless Steel....A13-7
Hex Nylon....A13-22
Hi-Nuts

N

SAE....A11-6
USS, Brass....A13-20
Hi-Nylon Lock....A11-5
Jam....A11-7
18-8 Stainless Steel....A13-6
316 Stainless Steel....A13-7
A2 Stainless Steel, Metric....A16-27
Metric....A16-15
Keps....A11-7
Left Hand
Grade 2....A11-6
Grade 5....A11-6
License Plate....J10-41-42
Machine Screw....A11-7
Brass....A13-20
SS....A13-7
Manifold....H19-3, J10-49
Metric Brass....H19-3
Metric, Flanged....A16-16
Metric "U" Speed....A16-17
Muffler Clamp....H19-1
Nylon Insert Lock
Grade 2....A11-5
Grade 5....A11-5
Grade 8....A11-4
Heavy....A11-4
Hi....A11-5
Jam....A11-4
Wing....A11-9
Pal....A11-11, J10-50-51
Prevailing Torque Lock
Grade 5....A11-3
Grade 8....A11-3
L9®....A11-3
Push....A11-11, J10-51
Rod Couplers....A12-18
Rod Couplers, Metric....A16-21
SAE Hi-Nuts....A11-6
Silicon Bronze, Hex....A13-21
Slotted Hex....A11-7
Speed
Extruded....J10-34-35, 50
Flat....A11-10, J10-50
"J"....A11-10, J10-35-36, 50
Tubular....A11-10
"U"....A11-10, J10-35-36, 50
Metric....A16-17
Square....A11-8
Square Cage....A11-10
Stainless Steel....A13-6, 8
Stover Lock, GR-5....A11-3
Stover Lock, GR-8....A11-3
Stover Lock, L9®....A11-3
Supralloy L9®....A11-1
Torque Converter....H17-1
Tee, Claw Prong....A11-9
Thread Cutting....J10-50
Tubular Speed....A11-10
Universal....A11-10
Vandlgard....A11-9
Well....A11-14, J10-51
Wheel....H14-1, 6-9
Wing....A11-8-9
Stainless Steel....A13-8
Wood Insert....A11-9
NYLON BLIND RIVETS....J10-58, 61-62
NYLON CABLE CLAMPS....E12-18
NYLON INSERT LOCK NUTS
18-8 SS....A13-7
316 SS....A13-7
Grade 2....A11-5
Grade 5....A11-5
Grade 8....A11-4
Heavy....A11-4
Hi-Nylon....A11-5
Jam....A11-4
Standard....A11-5
Wing....A11-9
NYLON LOCK NUTS
Hi-Nylon....A11-5
Metric....A16-16
Stainless Steel....A13-7
NYLON NUTS....A13-22
NYLON RECOIL AIR HOSE....B11-1

N-O-P

NYLON RIBBED GASKETS....L14-9
NYLON RIVETS....A19-11
NYLON ROPE....A20-9
NYLON SCREW ANCHORS....A21-2
NYLON SCREWS....A13-21-22
NYLON TUBING
Air Brake....B13-30
General Purpose....B13-30
Metric....B13-30
NYLON WASHERS....A14-3

O • O • O

O-RING SPLICING KIT....B14-5
O-RINGS
A/C Systems....L17-4-11
Caterpillar....B14-4
Ethylene....B14-2-3
Hydraulic....B14-5
Metric....B14-3
Splicing Kits....B14-5
Square Cut O-Rings....B14-3
Standard Cut (Buna-N) O-Rings....B14-2-3
Viton....B14-2-3
ODOR BUSTER AUTO FOGGER™....L17-20
ODOR COUNTERACTANT DRC655....C14-4
ODOR DEODORIZERS....C14-4-6
ODORCIDE® 210 CONCENTRATE....C14-5
Dumpster & Chute....C14-5
Original Formula....C14-5
OIL, 3-IN-ONE....C10-7
OIL COOLER REPAIR FITTING....B13-19
OIL DRAIN PAN RETHREADING KIT....D10C-31
OIL FILLER CAPS....L13-2
OIL FILTER
Pliers....G16-1
With Slip Joint Handle....G16-1
Truck and Tractor....G16-1
Sockets....G16-2-4
Wrenches....G16-1
OIL GUN....G16-8
OIL LINE QUICK DISCONNECTORS....H17-2
OIL/LUBRICANT – 2 CYCLE ENGINE....C10-14
OLYMPIC BULB-TITE RIVETS....A19-8
OMNI L/P....C10-9
ON-THE-CAR BRAKE LATHE BITS....G16-14
Silencers....G16-14
"ONE-TIME" DRAIN PLUGS....L14-2, 6
OPEN BARREL TERMINALS....G11-8-10
Cable Seals....G11-9
Cavity Plug....G11-9
GM Mate-N-Lock....G11-10
Metri-Pack Series....G11-8
Splice Clips....G11-8
Weatherpack....G11-9
Wire Leads....G11-9
Tools....G11-10
OPEN END BLIND RIVETS....A19-1-3
OPEN END NEEDLE....H11-6
ORIFICE TUBES....L17-13-14
Smart VOV....L17-14
OVERFLOW TANK CAP....L13-1
OVERSIZE DRAIN PLUGS....L14-2
OVERSIZE FENDER WASHERS, METRIC....A16-18
OVERSIZE WASHERS....A14-3
OVERSIZED WHEEL STUD....H14-5

P • P • P

P-FREE, URATIC SALT REMOVER....C14-5
PADLOCKS....G17-9-10
Lock De-Icer....G17-10
Lock Ease....G17-10
PADS
Absorbent....D14-25
Drum Top....D14-25
PAG OIL FOR R134a SYSTEMS....L17-18
PAG OIL w/DYE....L17-19

DESCRIPTION GROUP / PAGE

P

PAINT, AEROSOL....C13
PAINT....C13-1-5
Brushes....D14-10
Ceiling Tile....C13-4
Colors....C13-5
Flexible Bumper & Trim....C13-4
Graffiti Remover, Gel....C12-2
Hi-Tech Engine Coating....C13-4
Masks....D14-20
MRO High Solid Industrial....C13-2
Non-Skid, Anti-Slip Epoxy....C13-4
Remover....C12-2
Stainless Steel....C13-3
Stiks....D14-15
Stripe Inverted Tip Marker....C13-2
Stripper....C13-4
PAINTER'S OVERALLS....D14-18
PAINTER'S, 3M BLUE TAPE....D14-3
PAL FUSES....G14-3
PAL NUTS....A11-11, J10-50-51
PAN BOLTS....H17-2
PAN-STICKER GELTABS....C14-6
PANELS, FUSE....G14-7
PAPER/PLASTIC PRODUCTS....D14-12-14
PARTS CLEANING BRUSH....D14-7
PASSING LINK CHAIN....A20-2
PATRIOT WELDING & BRAZING RODS..D13-1-5
PB BLASTER PENETRATING OIL....C10-6
PCV VALVES....L10-1-2
PEDAL RETURN SPRINGS....L11-3
PENCIL FLAME TORCH....D13-10
PENETRANT-DEMOISTURANT-LUBE
Five Way....C10-3
PENETRATING OIL....C10-3
PB Blaster....C10-6
PERFECT SOLUTION -CONCENTRATED CLEANER/DEGREASER....C14-4
PERFORATED HANGER STRAPPING....D14-15
PERMA HOSE....B11-1
PERMAGUM....L17-20
PERMATEX®
PERMATEX®
Anti-Seize Lubricant....C10-11
Battery Cleaner....C12-12
Brake & Parts Cleaner....C12-11
Ceramic Extreme Brake Parts Lubricant....C10-13
High-Temp Red RTV Silicone Gasket Maker....C11-13
Super Glue....C11-13
Super Glue Gel....C11-13
Super Weatherstrip Adhesive....C11-14
The Right Stuff....C11-13
For Imports....C11-13
Tune-Up Grease....C10-12
Ultra Disc Brake Caliper Lube....C10-13
PEST CONTROL....C14-1
PICK-UP TOOLS....D11-15
MAGNETIC....D11-15
PIGTAIL/SOCKET CONNECTORS....G11-1-7
PILLOW BLOCKS....A20-11
PILOT DRILLS....D10C-40-41
PILOT INSERT/SEALING WASHERS, GM....L17-12
PILOT PUNCHES....D11-12
PINCERS, HOSE CLAMP....B12-4
PIN PUNCHES....D11-11
PINS
Clevis
Single Holed....A18-3-4
Universal....A18-3-4
Cotter
Bow-Tie....A18-3
Metric....A16-22
Rue® Ring....A18-2
Stainless Steel....A13-17
Steel....A18-1-3
Wedg-Lok....A18-2
Dowel....A18-6
Guide....H13-2
Hair
Cotters....A18-1
Hitch....A20-11

P

Hitch, Cotters....A18-1
Lift Arm....A20-11
Lynch....A20-12
PTO Lock....A20-11
Roll....A18-4-5
Snap-Lock....A20-11
Spring Roll
Standard....A18-4-5
Metric....A16-24
Spiral Spring....A18-5
Taper....A18-6
PIPE FITTINGS
Brass....B13-5-7
Copper Sweat....B10-7
Galvanized....B10-1-2
Malleable Iron....B10-1-2
Schedule 80....B10-2-3
PVC Schedule 40....B10-5
PVC Schedule 80....B10-6
Stainless Steel....B10-3-4
Valves....B10-8
PIPE PLUGS, STEEL/BRASS....B15-4
PIPE SEALANT W/TEFLON (INDUSTRIAL GRADE)....C11-8
PIPE THREAD TAPS....D10C-30
PIPE WRENCHES....D11-4
PLASTIC
Coated, Floor Covers....D14-14
Drum Pump....C14-7
Funnels....D14-16
Gas Cans, Spill-Proof....D14-16
Replacement Nozzles....C11-1
Seat Covers....D14-14
PLASTIC COATED CLOTH TAPE....D14-2
PLASTIC UTILITY BOXES....M10-10
PLASTIX....C11-4
PLIERS
Bending....H15-3
Channel Lock....D11-6
Diagonal Cutting....D11-7
E-Z Set & Forget....D11-8
Groove Joint....D11-7
Hog Ring....-37
Hose Clamp....G16-12
Hose Pinch-Off....G16-13
King Cobra....D11-7
Linesman....D11-7
Long Nose....D11-7
Oil Filter....G16-1
Push Pin....J10-16
Radiator Cap....G16-12
Retaining Ring....D11-7
Slip Joint....D11-6-7
Vise-Grip....D11-8
Wire Cutting....D11-6-7
PLOW BOLTS
Grade 5 Clipped Head....A12-1
Grade 5 #3....A12-1
Grade 8 #3....A12-1
PLUG CLEANERS....G15-25
PLUGS
GM Transfer Case....L14-7
4WD....L14-7
PLUG WRENCH, DRUM....C14-7
PLUMBER'S
Brushes....D14-7
Chain....A20-2
E-Z Clean Cloth Roll....D10A-7
Grip-Kut Mesh Cloth Roll....D10A-7
PNEUMATIC ACCESSORIES
Air Hose....B11-1
Air-Line Chucks....B11-3
Air-Line Couplers....B11-5-9
Air-Line Filter....B11-2
Air-Line Plugs....B11-5-6
Air-Line Regulator....B11-2
Hydraulic Quick Couplings....B11-9
Inflator Gauge....B11-2
In-Line Water Separator & Air Filter....B11-2
Pressure Gauge....B11-2
Safety Blow Guns....B11-3-4
POINT CLEANER....C12-3
POLAR INSULATED LEATHER PALM

P

GLOVES....D14-19
POLE SOCKET PROTECTIVE BOOT....G15-24
POLYETHYLENE TUBING....B13-30
POLYPROPYLENE ROPE....A20-9
POLYURETHANE SELF COILING AIR HOSE....B11-1
POP RIVETS....A19-1-5
Tools....A19-23
PORTABLE BANDSAW BLADES....D10C-36
PORTABLE TOOL LUBRICANT....C10-7
POSI-GRIP
Discs (ScotchBrite)....D10A-15
Drills....D10B-24
POSI-LOCK CONNECTORS....E12-4
POST-IT, 3M REMOVABLE LABELING TAPE....D14-3
POST TERMINAL BONDING STRAPS....E15-3
POWER EXTRACTOR....D10C-33
POWER LUBE, CRC®....C10-6
POWER STEERING
Fluid....C14-4
Honda® Vehicles....C14-4
POWER TUBE BRUSHES....D10A-2
PRECISION SCREWDRIVERS....D11-10
PREMIUM HAND CLEANER, WONDER....C12-9
PRESSURE CYCLING SWITCHES....L17-15
PRESSURE GAUGE....B11-2
PRESSURE SENSITIVE TAPE....D14-5
PREVAILING TORQUE LOCK NUTS....A11-3
PREVENTX BRAKE LINES....H15-2
PRIMARY WIRE....E11-2-3
PRIMER
Rust Treatment....C13-1
Single Step, 3M....C11-14
Zinc Galvanizing....C13-3
PROGRABIT® BROKEN BOLT & DAMAGED SCREW REMOVER....D10C-33
"PRO LOK™" ADHESIVES AND SEALANTS....C11-5
PROOF COIL CHAIN....A20-1
PRO-TECH DETAIL CHEMICALS
Satin Formula....C12-13
Wax and Shine....C12-13
"Wet Look" High Gloss Formula....C12-13
PROBE TOOL, T-HANDLE....H11-6
PROFESSIONAL MODEL TS7000, SELF-IGNITING TORCH....D13-10
PROLINE
Adhesives/Sealants....C15-2-3
Cleaners....C15-3-5
Lubricants....C15-1-2
Product Specifications....C15-6-14
Specialty....C15-5
PROTECT-O-SEAL, GLADHAND SEAL....G15-27
PROTECTIVE BOOT, 7 POLE SOCKET....G15-24
PROTECTIVE CLOTHING....D14-18-19
PROTECTIVE EYEWEAR....D14-21-22
PROTECTORS, HOSE....G15-24
PRY BAR (CROW)....D11-11
PTO CABLE....G15-26
PTO LOCK PINS....A20-11
PUMP DRUM....C14-7
PUNCHES, CENTER....D11-11
PUNCHES, PILOT....D11-12
PUNCHES, PIN....D11-11
PURPLE-PRO™ CONCENTRATE....C12-1
PUSH NUTS....A11-11, J10-51
PUSH-ON HOSE
Fabric Cover....B13-22
Rubber Cover....B13-22
PUSH PIN PLIER SET....J10-16
PUSH-PULL CONTROL CABLES....G15-26
PUSH-PULL SWITCHES....G12-2
PUSH-TO-CONNECT COMPOSITE BRASS FITTINGS....B13-16-17
PUSH-TO-CONNECT METRIC BRASS FITTINGS....B13-16-17
PUTTY KNIVES AND SCRAPERS....D10C-44
PVC/ABS HAND SAWS....D10C-38
PVC SCHEDULE 40 PIPE FITTINGS....B10-5
PVC SCHEDULE 80 PIPE FITTINGS....B10-6

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE DESCRIPTION GROUP / PAGE DESCRIPTION GROUP / PAGE

Q-R

Q • Q • Q

Q-BOND FAST BONDING ADHESIVE.....C11-2
QUICK ACTION CONTROL - LIQUID BACTERIA C14-6
QUICK CHANGE RATCHETING TERMINAL CRIMPING KIT D11-14, E10-18A
QUICK COUPLERS, AIR B11-5-9
QUICK DISCONNECT CONNECTORS
GM Heater Hose L15-2
QUICK DISCONNECTORS
Fuel Line.....L12-5
Transmission & Oil Line.....H17-2
QUICK DRAW LOW TEMP SOLDER.....D13-9
QUICK LINK A20-5
QUICK LUBE ASSORTMENT L14-1

R • R • R

R134A RETROFIT PARTS L17-16
RACKS, ALL TYPES M10-13-16
Cable Tie.....E12-9
RADIAL TIRE PATCHES H11-4, 6
RADIATOR
Brush D14-7
Cap Pliers G16-12
Caps L13-1
Drain Cocks.....L15-3
Drain Cock Socket.....G16-13
Flush C14-3
Hose, Silicone L15-1
Sealer C11-15
Stop Leak.....C11-16
Stant Tester.....L13-1
Thermostat Housing Cap L13-1
RAGS IN A BOX, SCOTT® D14-12
RAIN CAPS, EXHAUST H19-4
RAINWEAR D14-18
RAINY DAY WIPER BLADES.....G10-3
RASP & FILE SET D10C-43
RASPS H11-5
RATCHET PROFESSIONAL CRIMPING TOOL D11-14, E10-18A
RATCHET CUTTING TOOL D10C-45
RATCHET SCREWDRIVER, 15-IN-ONE D11-9
RATCHETING ADJUSTABLE WRENCH SET.....D11-15
RATCHETING CRIMPER.....D11-13-14
RATCHETING TERMINAL CRIMPING KIT, QUICK CHANGE.....D11-14, E10-18A
RAZOR BLADES D10C-44
REAMERS D10B-25
REAR VIEW MIRROR ADHESIVES C11-16
RECEPTACLES, IN-LINE GFCI.....E13-1
RECIPROCATING SAW BLADES.....D10C-36-40
Carbide Grit.....D10C-37
Fire & Rescue D10C-39-40
Lazer D10C-38
Triple Edge.....D10C-39-40
RECLOSABLE FASTENERS
Dual Lock.....D14-5
Velcro D14-5
RECOIL HOSE, AIR B11-1
RED GREASE, AEROSOL.....C10-4
RED SILICONE, RTV "MAKE-A-GASKET" C11-1
REFLECTIVE TAPE.....G15-19
REFLECTORS.....G15-12, 19
RELAYS G12-4
REMOVERS
Chewing Gum C12-4
Gel Graffiti.....C12-2
Gel Vandal Mark.....C12-2
Super Glue.....C11-5
REPAIR
FUEL LINE.....L12-5-6
FUEL TANK C11-16
RESCUE & FIRE RECIPROCATING

R

SAW BLADES D10C-39-40
RESET TOOL
BMW G16-7
RESTORATION KIT, HEADLIGHT LENS...C11-16
RESTORERS, INTERNAL THREAD D10C-32
RETAINERS
Headliner.....J10-16-28
Plastic Shield.....J10-16-28
Rivet J10-16-28
RETAINING RING PLIERS D11-7
RETAINING RINGS
"E" A18-7-8
External.....A18-7-8
Internal.....A18-7-8
RETHREADING SETS.....D10C-31-32
RETHREADING TOOL, EXT. BOLT D10C-32
RETRACTABLE REELS D12-3
RETRACTABLE UTILITY KNIVES.....D10C-45
RIBBED NECK CARRIAGE BOLTS, GRADE 5 .....A12-4
RIBBED NYLON GASKETS.....L14-9
RIGHT ANGLE LUBE ADAPTER.....G16-6
RIGHT TO KNOW COMPLIANCE CENTER M10-6
RACK and BINDER M10-6
RIM GAUGE H10-6
RINGS, HOG J10-37
Pliers J10-37
RINGS, RETAINING
"E" A18-7-8
External.....A18-7-8
Internal.....A18-7-8
RIVET CONNECTING LINK A20-4
RIVET GUNS A19-26
RIVET-NUTS
Blind Thread J10-53
Expander Flange.....A17-2
Large Flange.....A17-2
Tool A17-1
RIVETS
Assortments A19-25
Aluminum.....A19-1-2
Back-Up Washers.....A19-25
Blind A19-1-5
Nylon.....J10-58, 61-62
Brazier Head Solid Alum.....A19-10
Bulbex.....A19-7
Bumper.....J10-57, 60
Closed End Sealing A19-4-5
Door A19-7
Floortight.....A19-18
Guns A19-26
HP8 Powerbolt.....A19-21
Huck-Fit Powerbolt.....A19-22
Hucktainer.....A19-19
Magna-Bulb.....A19-15
Magna-Grip Lock Bolt.....A19-16-17
Magna-Lok.....A19-12-13
Mandrels A19-26
Monobolt Structural.....A19-14
Multi-Grip A19-6
Nosepieces A19-26
Nylon A19-11
Olympic Bulb-Tite.....A19-8
Open End.....A19-1-3
Pop A19-1-5
Tools.....A19-23
Retainers.....J10-23-28
Southco.....A19-9
Special Application.....J10-57, 60-62
Stainless Steel A19-3
Steel A19-2-3
Structural Trifurcating.....A19-5
Tools A19-26, J10-58-59
Trim J10-56, 60
Washers, Back-Up.....A19-25
Window, Glass and Door.....J10-56, 60
RIVETING TOOLS J10-58-59
ROBERTSON SCREWS
Sheet Metal.....A15-2
Wood A15-17
ROD
Brazing D13-1, 4A
Saw D10C-35

R-S

Threaded, Brass A13-19
Threaded, Stainless Steel.....A13-9
Threaded, Metric.....A16-21
Stainless Steel.....A16-30
Threaded, B-7 .....A12-10
Threaded Rod Couplings A12-11
Metric.....A16-21
Threaded, Standard.....A12-10
Unthreaded A12-10
ROD COUPLINGS A12-11
18-8 Stainless Steel Nuts.....A13-10
ROD END BALL JOINTS A20-13
ROLL PINS A18-4-5
Metric A16-24
ROLLER CHAIN A20-12
British Standard Metric.....A16-22
Heavy Duty A20-12
Repair Parts.....A20-12
ROLOC DISCS, 3M.....D10A-10
ROPE
Hooks A20-8
Nylon A20-9
Polypropylene A20-9
Ratchet.....A20-9
Recessed Ring.....A20-9
Rubber A20-9
Tow A20-4
Wire A20-6
Vinyl Coated A20-6
ROTABROACH® CUTTERS D10C-40
ROTARY CABLE STRIPPER.....D11-13
ROTARY SAW DRILL.....D10B-24
ROTOR SILENCERS G16-14
ROUGH SERVICE BULBS.....D12-1
ROUNDED BOLT & NUT REMOVER KITS, 3/8" DRIVE TIGHT GRIP.....D11-1
RTV MAKE-A-GASKET C11-1
RTV SILICONE GASKET.....C11-12-13
RTV SILICONE SEALANT
Clear C11-1
School Bus Yellow.....C11-1
White C11-1
RUBBER BOOT, TOGGLE SWITCH.....G12-2
RUBBER DRUMS, SOLID D10A-8
RUBBER GROMMETS.....E12-14, J10-41
RUBBER HD DUST PAN D14-9
RUBBER INSERT DRAIN PLUG GASKETS (FORD).....L14-10
RUBBER ROPE.....A20-9
RUBBER STRAPS A20-10
RUBBERIZED UNDERCOATINGS.....C13-1
RUBY RED GREASE C10-14
RUE® RING COTTER PINS A18-2
RULERS D11-12
RUST
Paint C13-1
Penetrant, FX.....C10-3
Primer C13-1
Remover C13-1
Treatment C13-1

S • S • S

"S" HOOKS A20-8
"Infinity" A20-8
SABER SAW BLADES.....D10C-36
SAE 45 FLARED BRASS FITTINGS B13- 5, 8-9
SAE HI-NUTS A11-6
SAE THREADED ROD.....A12-10
SAF-STEP NON-SLIP TAPE.....D14-4
SAFETY BLOW GUNS.....B11-3-4
SAFETY COUPLERS B11-9
SAFETY EQUIPMENT D14-20-26
SAFETY FLAG, FLUORESCENT MESH....D14-26
SAFETY GLASSES.....D14-21-22
SAFETY LATCH KITS, UNIVERSAL.....A20-8
SAFETY LOCKOUT HASP, MASTER®.....D14-26
SAFETY SIGNS.....D14-26
SAFETY SLIP HOOK A20-6
SAFETY TRAFFIC CONES.....D14-26
SAFETY WALK TAPE.....D14-4

DESCRIPTION GROUP / PAGE

S

SANDING DISCS, 3M D10A-7-8
SANDING SHEETS....D10A-7-8
SASH CHAIN A20-2
SAW BLADES
Air D10C-35
Carbon Flexback D10C-36
Close Quarter....D10C-35
Hacksaw D10C-34-35
Jig/Saber D10C-36
Metal Devil® Circular Saw Blades....D10C-39
PCV/ABS....D10C-38
Portable Bandsaw D10C-36
Reciprocating....D10C-36-40
Carbide Tipped D10C-37
Demolition....D10C-38
Fire & Rescue....D10C-39-40
Heavy Duty D10C-37
Master Grit® D10C-37
Sawzall D10C-37
Triple Edge D10C-39-40
Rod D10C-35
Tri-Fold....D10C-37
SCAVENGER WELDING WIRE D13-5
SCOTCHLOK CONNECTORS....E12-2, 5-6
SCOTT® RAGS IN A BOX D14-12
SCOTT® TOWELS IN A BOX D14-12
SCHOOL BUS EIGHT LAMP ELECTRONIC FLASHER/CONTROLLER G15-2
SCHOOL BUS FIRST AID KIT....D14-23
SCHOOL BUS YELLOW SILICONE, RTV SEALANT C11-1
SCRAPER, HEAVY DUTY....D10C-44
SCRAPING TOOLS D10C-44
SCRATCH BRUSHES....D10A-3
SCREENCLOTH D10A-6
SCREW EYES A20-7
SCREW EXTRACTORS D10C-33
SCREWDRIVER, 15-IN-ONE RATCHET D11-9
SCREWDRIVER SETS....D11-9
SCREWDRIVERS, INSULATED....D11-9-10
SCREWDRIVERS, MULTI-BIT SET....D11-10
SCREWDRIVERS, PRECISION D11-10
SCREWGRAB D11-10
SCREWLOOSE®, ULTRA SUPER PENETRANT....C10-3
SCREW REMOVER, X-OUT™ D10C-33
SCREWS
Black Trim A15-3
Brass Wood A13-17-18
Brass Machine
Slotted Oval Head A13-18
Slotted Round Head A13-19
Slotted Flat Head....A13-18
Button Head Socket C/S A10-16
Drill N' Tap A15-7-9
Drill Point....A15-9
Dry Wall A15-19
Exhaust....H19-3
Flat Head Socket C/S A10-14
Floorboard
Flat Torx A15-18
Flat Type "F" A15-18
Hex Head Lag Screws A15-15
Galvanized....A15-16
Stainless Steel....A13-6
Hex Head C/S GR-2 ....A10-10
Hex Head C/S Metric....A16-6-10
Hex Head C/S GR-5 ....A10-9
Hex Head C/S GR-8 ....A10-7-8
Hex Head C/S SS A13-1-3
Hex Serrated Washer Head Teks® A15-8
Lag
Galvanized....A15-16
Stainless Steel....A13-6
Steel A15-15
License Plate....J10-41-43
Machine Screws, Metric....A16-19-20
Machine Screws, Steel
Combination Round Head A15-11
Phillips Flat Head....A15-11
Phillips Oval Head A15-11
Phillips Pan Head A15-13
Phillips Round Head....A15-12
Phillips Truss Head....A15-14
Stainless Steel A13-13
Slotted Round Head A15-12
Slotted Flat Head....A15-10
Slotted Fillister Head A15-14
Slotted Pan Head A15-13
Slotted Truss Head....A15-14
Stainless Steel A13-13
Tamper-Proof A15-19
Torx Pan Head A15-13
Unslotted Hex Head A15-15
Rock-On Flat Phillips Teks® A15-9, 38B
Security Screws....A15-19-20
Self-Sealing Drill A15-8
Set Screws
Assortments....A15-21
Socket Head
Cup Point A15-21
Knurled Point....A15-21
Square Head A15-20
Sheet Metal
Hex Head, Unslotted A15-5
Hex Washer, Slotted....A15-4
Pan Combination Head A15-1
Phillips Flat Head....A15-3
Phillips Oval....A15-2-3
Stainless Steel A13-12
Phillips Pan Head A15-1
Phillips Truss Head....A15-4
Stainless Steel A13-13
Slotted Flat Head....A15-3
Slotted Hex Washer....A15-4
Slotted Oval Head A15-2
Slotted Pan Head A15-1
Slotted Truss Head....A15-4
Square Drive....A15-2
Stainless Steel....A13-11-13
Unslotted Hex Head w/loose washer A15-4
Slotted Flat Floorboard A15-18
Socket Cap Screws, Metric....A16-11-13
Socket Set Screws, SS A13-4
Socket Head Cap Screws....A10-10-12
Socket Shoulder Screws....A10-15
Stainless Steel....A13-4
Socket Cap Screws, SS....A13-4-5
Socket Set Screws
Cup Point....A15-21
Knurled Point....A15-21
SPAX® Unidrife® A15-19
Square Head Set Screws....A15-20
Tamper-Proof
Machine A15-19
Sex Bolts A15-20
Sheet Metal A15-20
Tapping J10-43-45
TEKS®
Bugle Head Phillips A15-7
Hex Serrated Washer Head A15-8
Hex Washer Head....A15-7-8
Hex Washer Head Self-Sealing....A15-8
Pan Head Phillips A15-7
Rock-On Flat Phillips A15-9
Stainless Steel
Hex Washer Head....A13-10
Pan Head Phillips....A13-10
Wall Liner Torx® A15-9
Thread Cutting
Flat Phillips A15-6
Hex Unslotted A15-5
Hex Washer Unslotted....A15-5
Pan Phillips....A15-6
Pan Slotted A15-6
Type "F"....A15-5-6
Thread Rolling
Hex Washer Tri-Roundular....A15-6
Thumb....A15-15
Torx Floorboard Screws....A15-18
Trim J10-46
Tri-Roundular....A15-6
Universal Self-Drilling....A15-19
Wall Liner Torx® Teks® A15-9
Winged Self-Drillers A15-10
Wood Screws
Brass A13-17-18
Flat Phillips A15-17
Flat Slotted A15-16
Flat Square Drive (Robertson®) A15-17
Oval Slotted A15-17
Round Slotted....A15-18
Stainless Steel....A13-10-11
SCRIM WIPERS D14-13
SCRUBS®
In A Bucket C12-5
SEAL-ALL - ALL PURPOSE ADHESIVE C11-3
SEAL CLAMPS, EXHAUST H19-4
SEAL PULLER....G16-12
SEAL-IT, MULTI-PURPOSE SEALANT C13-1
SEAL-RITE DRAIN PLUGS L14-7
SEAL-RITE GASKETS L14-7
SEAL-RITE KIT....L14-7
SEAL-RITE TAPS L14-7
SEAL-UP, ENGINE BLOCK SEALER C11-15
SEALED BEAMS/HEADLAMPS....G13-2
SEALER
Ignition C11-15
Seal-Up (Metallic Block & Rad.) C11-15
SEALING COMPRESSOR WASHER KITS, GM L17-11
SEALING WASHER/PILOT INSERTS, GM L17-12
SEALS
Gladhand....G15-27
SEAT BELTS....D14-26
Cutter D14-26
SEAT COVERS
Plastic D14-14
Seat-Mate® D14-14
SECURITY LINKS A20-4
SECURITY SCREW REMOVER TOOL....A15-20
SELECT FLOW™ DISPENSER....D14-13
SELF-ALIGN BRASS FITTINGS....B13-11
SELF-DRILLING SCREWS A15-7
SELF-DRILLING WINGED SCREWS A15-10
SELF-FUSING SILICONE TAPE....E12-6
SELF-IGNITING TORCH, TS7000 ....D13-10
SELF-SEALING GALVANIZED WASHERS....A14-6
SELF-STRIPPING WIRE CONN....E12-6
SELF-TAPPING PAN BOLT H17-2
SERPENTINE BELT WRENCH SET G16-13
SERRATED FLANGE BOLTS....A12-6
SERVICE TRAYS....M10-3-4
SET SCREWS
Metric A16-21
Stainless Steel A13-4
Steel A15-21
SHACKLES, ANCHOR....A20-6
SHAFT COLLARS
Set Screw Type....A18-10
Two Piece, Clamp-Type....A18-10
SHAKER SCREEN BOLTS
Grade 5 ....A12-2
Grade 8 ....A12-2
SHEET GASKET MATERIAL L15-1
SHEET METAL PLUGS, SNAP-IN J10-41
SHEET METAL SCREWS
Flat Phillips....A15-3
Flat Slotted....A15-3
Hex Unslotted A15-5
Hex Washer Slotted....A15-4
Stainless Steel....A13-13
Oval Phillips A15-2-3
Oval Slotted A15-2
Pan Phillips A15-1
Pan Slotted A15-1
Pan Square Drive (Robertson®) A15-2
Phillips Combo Head A15-1
Square Drive A15-2
Stainless Steel....A13-11-13
Tamper-Proof....A15-20
Truss Phillips....A15-4
Truss Phillips SMS....A13-12
Truss Slotted....A15-4
Unslotted Hex Head w/loose washer A15-4
SHIFT INSULATORS, TRANS H17-1

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

S

SHIMS
Body Alignment J10-40
SHOP
Apron D14-18
Bags, Kwikee™ D14-14
Equipment D14-16-17
Towels D14-12
Towels In A Box, Scott® D14-12
Use Items....D14-15
SHRINK 'N SEAL STEP-DOWN BUTT CONNECTORS E10-20
SHRINK 'N SEAL TERMINALS E10-19-22
SURE SHOT SPRAYERS C14-8
SIGNS
"Caution Wet Floor" D14-8
Safety D14-26
SILICONE CARBIDE SCREENCLOTH....D10A-6
SILICONE LUBE C10-3-4, 12
SILICONE RADIATOR HOSE....L15-1
SILICONE, RTV
Aluminum C11-1
Black....C11-1, 12
Blue C11-1, 12
Clear....C11-1, 12
Copper....C11-12
Grey....C11-12
Orange C11-13
Red....C11-1, 13
Ultra Black....C11-12
White C11-1
SILICONE SEALANTS, MCKANICA C11-12
SILICONE TAPE, SELF-FUSING....E12-6
SILICONIZED ACRYLIC LATEX CAULK....C11-2
SILVER BRAZING FLUX PASTE D13-10
SILVER TAPE....D14-2
SINGLE STEP PRIMER, 3M C11-14
SINGLE STRAND MUSIC WIRE....D14-15
SLEEVING, EXPANDABLE MESH....E12-19
SLIDE RACKS M10-5
Locking Hinges....M10-5
Stands M10-5
SLIK N KLEEN C10-4
SLIM LINE WASHERS....L17-3
SLIME, FLAT TIRE ELIMINATOR H11-7
SLINGS, H.D. INDUSTRIAL....A20-10
SLIP HOOKS A20-6
SLIP JOINT PLIERS D11-6-7
SLIPTAC BEAD LUBRICANT....H11-8
SLOTTED HEX NUTS, STEEL....A11-7
SLOTTED HEX WASHER SMS A15-4
SMART BLEND® TRANS. PRODUCTS
Synthetic Auto. Trans. Fluid
D-VI Supplement C10-15
M-V Supplement....C10-15
Synthetic Highly Friction Modified ATF Supplement....C10-15
Trans Flush Cooler Flush Kit C10-15
Trans Prep Assembly Lube C10-15
SMART VOV, ORIFICE VALVE....L17-14
SNAP HOOKS A20-6
SNAP-IN SHEET METAL PLUGS J10-41
SNAP-LOCK PINS....A20-11
SNAP PEAR HOOKS A20-8
SNAPS A20-8
SNIPS, AVIATION....D10C-43
SNOW PLOW OIL C10-9, C14-3
SNOW PLOW QUICK-LIFT C10-9, C14-3
SOAPSTONE & HOLDER....D13-7
SOCKET/PIGTAILS/CONNECTORS
Ford
Electrical Repair Harness....G11-2
Engine Management....G11-5
Heating/AC/Cooling System....G11-5
Interior/Dash....G11-5
Lighting....G11-3
Miscellaneous G11-5
GM
Alternator/Regulator G11-6
Electrical repair Harness G11-3
Engine Management....G11-7
Heating/AC/Cooling System....G11-7
Ignition System....G11-6
Interior/Dash....G11-6
Miscellaneous G11-7

DESCRIPTION GROUP / PAGE

S

Lamp Sockets
Chrysler....G11-1-2
Ford....G11-1-2
GM G11-3-4
Miscellaneous/Universal G11-5
Universal G11-1, 3
SOCKET
3/8" Drive & Sets....D11-2
1/2" Drive & Sets....D11-2
Cap Screws, Socket Metric....A16-11-13
Drive Adapter....D11-3
Drive Spinner Handle....D11-3
Extensions D11-3
Hex Sets D11-2
Low Profile....G16-2-3
Multi-Grip Universal D11-1
Oil Filter G16-2-4
Torx® Tamper-proof D11-1
Universal Joint D11-3
SOCKET HEAD CAP SCREWS
Button Head....A10-16
Flat Head (Socket)....A10-14
Low Head....A10-13
Metric A16-11-13
Shoulder....A10-15
Metric....A16-12
Stainless Steel....A13-4-5
Tamperproof A10-16-17
SOCKET HEAD SCREWS
Set Screws....A15-21
Set Screws, Stainless Steel....A13-4
Set Screws, Metric....A16-21
Socket Head C/S, Metric A16-11-13
Socket Head C/S, SS A13-4-5
SOCKET SET
Hex Bit D11-2
Torx D11-1-2
Tamper-Proof D11-1
SOCKETS, OIL FILTER....G16-2-4
SOLDER FITTINGS, COPPER....B10-7
SOLDER PASTES
Aluminum Bearing D13-9
Copper Bearing....D13-9
Silver Bearing D13-9
SOLDERBOND BATTERY SLUGS E15-12
SOLDERING FLUX D13-10
SOLDERLESS TERMINALS
Insulated E10-23-26
Non-Insulated E10-27-31
SOLDER 'N SEAL TERMINALS....E10-9-11
SOLDERS D13-9
SOLENOID, CONTINUOUS STARTER....G12-3
SOLID RUBBER DRUMS D10A-8
SOLID WALL ANCHORS
Alligator® A21-5
SOLVENT SPRAYERS C14-7-8
SORBENT ROLLS D14-25
SOUND SILENCERS....D14-21
SOUTHCO RIVETS A19-9
SPARK LIGHTER....D13-7
SPARK PLUG
Coil Thread Insert Repair Kit....A17-5
Keenserts....A17-3-4
SPARK PLUG COIL-THREAD A17-5
SPARK PLUG KEENSERTS....A17-4
SPAX® UNIDRIFE® SCREWS A15-19
SP-400™ CORROSION INHIBITOR C10-8, C13-1
SPC NO-STICK C10-8
SPEAKER WIRE....E11-3
SPECIAL APPLIC. RIVETS J10-57, 60-62
SPECIAL BRASS FITTING ADAPTERS B13-22
SPECIAL ORDER PRODUCTS M10-17
SPECIAL ORDER TOOLS....D10C-45 INDEX
SPECIALTY DRILLS
Spade Wood....D10B-25
SPEED NUTS
Extruded....J10-34-36, 50
Flat Type....A11-10, J10-50
Tubular....A11-10
"U" & "J" Type A11-10, J10-35-36, 50
SPEED WRENCH....D11-3
SPILL CLEAN-UP KIT....D14-25
SPILL-PROOF DRAIN PAN....G16-9

DESCRIPTION GROUP / PAGE

S

SPILL-PROOF GAS CANS....D14-16
SPIRAL BANDS....D10A-8
SPIRAL POINT TAPS....D10B-29
SPIRAL SPRING PINS....A18-5
SPLICING KIT, O-RING....B14-5
SPLICING TAPE, LINERLESS....D14-1, E12-6
SPLIT BOLT CONNECTORS....E10-33
SPLIT FLANGES, EXHAUST....H19-2
SPLIT LOCK WASHERS
High Collar A14-4
Metric A16-18
Stainless Steel A13-9
Standard A14-4
Steel A14-4
Supralloy High Strength....A14-4
SPOTWELD DRILLS D10B-25
SPRAY ADHESIVE, 3M SUPER 77....C11-3
SPRAY-A-GASKET....C11-4
SPRAY CAN TRIGGER HANDLE, AEROSOL C14-8
SPRAY NINE C12-2
SPRAY PAINTS
AlumiBlast....C13-3
Cast Blast C13-4
Chrome-Brite C13-4
Flexible Bumper & Trim C13-4
Fluorescent....C13-3
Hardware C13-3
Hi-Tech Engine....C13-4
MRO High Solids C13-2
Safe-Step, Anti-Slip Epoxy Coating....C13-4
Stainless Steel....C13-3
Stripe Inverted Tip C13-2
SPRAYERS C14-7-8
Commercial, Bulk....C14-8
SPRING ACTION HOSE CLAMPS B12-3
SPRING CENTER BOLTS....A12-7
SPRINGLOCK
Parts L17-12
SPRING ROLL PINS A18-4-5
Metric A16-24
SPRING WASHERS A14-3
Metric A16-18
SPRINGS
Compression....A18-10
Extension A18-11
Pedal L11-3
Turn Signal G12-3
Universal....A18-10-11
Universal Small....A18-11
SQUARE CAGE NUTS....A11-10
SQUARE CUT O-RINGS B14-3
SQUARE DRIVE SCREWS
Sheet Metal....A15-2
Wood Screws....A15-17
SQUARE NUTS A11-8
SQUARE KEYSTOCK, STAINLESS STEEL....A13-6
SQUARE BEVELED WASHERS....A14-2
SQUARE "U" BOLTS....A12-9
SQUEEGEES....D14-8, 11
STACKABLE BINS M10-9
STAIN & SPOT REMOVER....C12-1, 13
STAINLESS STEEL
18-8 Fender Washers A13-9
18-8 Heavy Hex Nuts....A13-7
18-8 Rod Coupling Nuts....A13-10
316 Hex Jam Nuts A13-7
316 Nylon Insert Lock Nuts....A13-7
Blind Rivets A19-3
Cap Nuts A13-8, A16-27
Cap Screws A13-1-3
Carriage Bolts A13-6
Chain A20-3
Cleaner/Polish C12-1
Clevis Pins A13-16
Cotter Pins A13-17
Epoxy C11-10
Finished Nuts....A13-6, 8A
Flat Washers....A13-8-9
Food Processing & Service Asst....A13-3
Hair Pins A13-16
Heavy Hex Nuts....A13-7
Hex Head Cap Screws A13-1-3

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

S

18-8 Stainless Steel A13-1-2
316 Stainless Steel....A13-3
Metric....A16-27
Hex Jam Nuts....A13-6, A16-27
Hex Slotted Washer Head, SMS....A13-13
Hose Clamps B12-1
Lag Screws A13-6
Lock Washers A13-9
Toothed A13-8
Machine Screws
18-8 Truss Phillips....A13-13
18-8 Truss Slotted A13-13
Hex, Trimmed Head, Unslotted A13-16
Metric Slotted Flat....A16-29
Slotted Flat A13-15
Slotted Round....A13-15
Nuts A13-7
Phillips Oval....A13-14
Phillips Pan....A13-14
Torx® Pan....A15-13
Micro, Hose Clamps....B12-2
Nylon Lock Nuts....A13-7
Phillips Oval Machine Screw....A13-14
Pipe Fittings B10-3-4
Rivets A19-3
SMS Slotted Pan....A13-11
SMS Slotted Flat....A13-12
SMS Phillips Flat....A13-12
SMS Phillips Oval A13-12
SMS Phillips Truss....A13-12
Socket Cap Screws, Metric Flat....A16-28
Socket Head Cap Screws....A13-4-5
Socket Head Set Screws A13-4
Socket Head Shoulder Screws A13-4
Square Keystock....A13-6
TEKS® Screws A13-10
Threaded Rod....A13-9
Metric....A16-30
"U" Bolts A13-16
Wing Nuts A13-8
Wood Screws Flat....A13-10-11
STAINLESS STEEL FASTENERS....A13-1-3
STANDARD ALLOY WASHERS....A14-2
STANDARD DRAIN PLUGS....L14-2
STANT RADIATOR TESTER....L13-1
STARTER
Pedal Springs L11-3
Solenoid, Continuous Duty....G12-3
STARTER LUGS, UN-PLATED SEAMLESS COPPER, CORRECTCONNECT™ E15-10
STARTING FLUID C14-2
STEEL BLIND RIVETS....A19-2-3
STEEL BRUSHES....D10A-2
STEEL INSULATED MOUNTING CLIPS E12-17
STEEL/NYLON BRUSHES D10A-2
STEEL PLUGS....L14-8
STEEL RIVETS....A19-2-3
STEEL SAFETY CANS D14-16
STEEL SLEEVE w/DRAG GUARD....B11-5
STEEL STEP STOOL....D14-16
STEEL TUBE NUTS H15-4
STEEL TUBING, BRAKE LINE....H15-1
PVF Coated H15-2
STEEL TUBING B13-30
STEEL WIRE BRUSHES & WHEELS D10A-1-3
STEEL WOOL D10A-16
STEP BOLTS....A12-1
STEP-DOWN BUTT CONNECTORS
MultiLink....E10-14A-B
Shrink N' Seal E10-14A-B, 20
Uninsulated....E10-14A-B, 30
STEPLESS® EAR CLAMPS B12-4
STEP STOOL, STEEL....D14-16
STIKIT
Disc Pad....D10A-7
Gold Disc Rolls....D10A-7
Green Disc Rolls D10A-7
STONE GUARD....C13-1
STOOL, STEEL STEP....D14-16
STOP LEAK, HEAVY DUTY RADIATOR ...C11-16
STORAGE
Bins & Accessories M10-1-2, 7
Cabinets....M10-7-8

S

Containers....M10-9
Door Tray M10-16
Racks M10-13-16
Trays & Accessories M10-3-5
Plastic M10-10
Trunk & Van Cabinets & Access. M10-17
STORAGE COATING....C13-1
STOVE BOLTS, STEEL
Slotted, Round....A12-7
Slotted, Truss....A12-8
Slotted, Flat....A12-7
STOVER LOCK NUTS
GR-5 ....A11-3
GR-8 ....A11-3
L9® A11-3
STOWAWAY ORGANIZER M10-10
STRAIGHT LINK CHAIN A20-1
STRAIGHT LOCK-ON CHUCKS....B11-3
STRAIN RELIEF CONNECTORS....E12-6
STRAPPING, PERFORATED HANGER....D14-15
STRAPPING TAPE....D14-3
STRETCH & SEAL TAPE D14-1
STRING REPAIR, TIRE....H11-3
STRING REPAIR TOOL....H11-6
STRIPE
Applicator Tools
Athletic Marker Machine....C13-3
Curb Marking Wand C13-3
Marking Gun....C13-3
Marking Wand C13-3
Traffic Marker C13-3
Athletic Field Marker Paint....C13-2
Golf Course Marker Paint C13-2
Inverted Tip Marker Paint C13-2
Traffic Marker Paint C13-2
STRIP-IT DISCS....D10A-16
STRIPPER, WIRE....D11-13
Voltage Sensing....D11-14
STROBE LIGHT G15-22-23
LED Integral....G15-10
STRUCTURAL TRIFURCATING BLIND RIVETS A19-5
STUD BOLT ANCHORS....A21-8
STUDS
Double End, Metric A16-22
Fully Threaded B-7 ....A12-10
Metric A16-22
Universal....A12-11
Wheel H14-1-5
SUCTION GUN....G16-8
SUNSCREEN WIPES C14-1
SUPERBOND 8000 STRUCTURAL ADHESIVE C11-9
SUPERCOOL A/C PRODUCTS
A/C Seal Leak Stop....L17-19-20
Concentrated U/V Dye L17-19
PAG Oils L17-18-19
SUPER 77, 3M SPRAY ADHESIVE....C11-3
SUPER BLASTER TORCH....D13-10
SUPER COMBINATION WRENCH SETS, TIGHT GRIP....D11-3
SUPER GLUE GEL C11-4
SUPER GLUE REMOVER....C11-5
SUPER SEAL....L17-20
SUPER TAPE D14-1
SUPER TOGGLER® (TOGGLER™) A21-4
SURE GRIP LOCKING TOOL....D11-9
SURE SHOT SPRAYERS C14-8
SURFACE CONDITIONING HAND PADS D10A-16
SURFACE PREPARATION DISCS D10A-14-15
SURGE & NOISE SUPPRESSORS E13-1
SWEATBANDS D14-18
SWITCHES
A/C Pressure Cycling L17-15
Back-Up Alarm G15-20
Disconnect/Selector....G12-3
Foot Operated Floor G12-3
Marine....G12-2
Push Button....G12-2
Push-Pull G12-2
Rocker G12-2
Solenoid, Continuous Duty....G12-3

S-T

Toggle....G12-1
SWIVEL AIR HOSE FITTINGS....B11-9
SYNTHETIC NON-WOVEN ABRASIVES....D10A-14-16
SYSTEM GUARD™ KIT L17-22
SYSTEM PORTS, TOOLS L17-16

T • T • T

T-BOLT HOSE CLAMPS....B12-2
T-HANDLE HEX KEYS....D11-5
T-HANDLE PROBE TOOL....H11-6
TACK & BOND....C11-15
TACK CLOTH....D14-11
TAIL PIPE
Clamps....H19-1
Hangers H19-1
TAMPERPROOF
Cap Screws A10-16-17
Hex Keys D11-6
Machine Screws A15-19
Screw Remover A15-20
Sex Bolts....A15-20
Sheet Metal Screws A15-20
Driver....A15-20
TAMPER SEAL, ANTI-SABOTAGE MARKER C13-1
TANK VALVES, BRASS B13-28-29
TAP & DIE
Sets D10C-30
Carbon Steel....D10C-27-30
High Speed Steel D10C-29
Sets D10C-30
Tools D10C-30-31
TAP BOLTS
Grade 5, Full Thread....A12-4
Grade 8, Full Thread....A12-4
Grade 2, Hex Head, Full Thread....A12-5
TAPCON FASTENERS FOR MASONRY A21-6
TAPE MEASURE....D11-12
TAPER PINS....A18-6
TAPES
3M Blue Painter's....D14-3
Aluminum Foil D14-3
w/Butyl Rubber Liner....D14-3
Amalgamating Wrap, Rubber D14-2
Anti-Slip, 3M Safety-Walk....D14-4
Barricade D14-4
Carton Sealing....D14-3
Heavy Duty....D14-3
Cloth, Plastic Coated D14-2
Color Coding....D14-2
Conspicuity, Reflective Marking G15-19
Dual Lock Reclosable Fastening System, 3M....D14-5
Duct & Seat Repair D14-2
Transparent....D14-2
Electrical
3M Super 33+....D14-1
3M Temp. Compensated Vinyl....D14-1
E-Z Seal Dielectric Compound....D14-1, E12-6
Friction....D14-1
Glass Cloth Hi-Temp D14-1
Gorilla D14-3
Hazard Stripe....D14-4
Insulated D14-4
Insulation....L17-20
Linerless Splicing D14-1, E12-6
Liquid Electrical....C11-2, D14-1
Masking, 3M Green D14-5
Masking, Utility Grade....D14-3
Non-Slip, SAF-STEP D14-4
Post-It, 3M Removable Labeling....D14-3
Pressure Sensitive, 2-Sided, Foam D14-5
Reflective....G15-19
SAF-STEP Non-Slip D14-4
Safety Walk....D14-4
Self-Fusing Silicone E12-6
Strapping, Reinforced....D14-3
Stretch & Seal....D14-1

DESCRIPTION GROUP / PAGE

T

Teflon Thread Sealing.....C11-8, D14-2
Threadlocker.....C11-7
Velcro D14-5
Weatherstrip D14-4
"Weather-Tite" Seal Foam D14-4
TAPMATIC CUTTING FLUID.....C10-6
TAPPING SCREWS.....J10-43-45
TAPS D10C-27-30
Pipe Thread.....D10C-30
Seal-Rite.....L14-7
TARPAULINS, POLYETHYLENE A20-10
TARP STRAPS.....A20-10
TEE NUTS A11-9
TEES, VACUUM.....L11-2
TEES, FLUSHING.....L15-2
TEFLON® LUBRICANT C10-4
TEFLON® TAPE & SEALANTS.....C11-7-8, D14-2
TEFLON® THREAD SEAL COMPOUND C11-8
TEKS®, DRILL SCREWS.....A15-7-9
TERMINAL EXTRACTORS.....G16-11
TERMINALS
Battery
Bolts, Side E15-13
Compression E15-8
Double Crimp Type E10-1-7
Import E15-4
Lugs.....E15-8-11
Marine.....E15-5
Passenger Car.....E15-4
Post E15-3-4
Protector Boots.....E15-3
Quick Action E15-5
Straight Sandcast Copper
Solderbond E15-11
Truck.....E15-5
Universal.....E15-4
Deutsch.....E10-31-32
High Temperature, Non-Insulated.....E10-27
Non-Insulated E10-27-31
Open Barrel.....G11-8-10
MultiLink.....E10-12-18
Permatite, Double Crimp E10-1-7
Safety Connectors E12-3
Shrink 'N Seal.....E10-19-22
Shrink 'N Seal Step Down
Butt Connectors E10-14A-B, 20
Solder 'N Seal.....E10-9-11
Solderless, PVC Insulated.....E10-23-26
Large Gauge.....E10-8
Solderless, Non-Insulated.....E10-27-31
Step Down Butt, Vinyl Insulated.....E10-26
Tool, GM.....G16-11
TEST CLIPS, ELECTRICAL.....E12-20
TEST STRIPS
Coolant G16-12
TESTING EQUIPMENT
Circuit Testers.....D11-14
THE BIGEASY™ LOCKOUT TOOL.....G17-11
THE "RIGHT STUFF".....C11-13
Caulking Gun.....C11-13
For Imports C11-13
THERMOSTEEL, 2400°F C11-10
THOMAS & BETTS
HEAVY DUTY PRODUCTS E14
COLOR-KEYED® BATTERY CONNECTORS
Battery/Starter Cable.....E14-3
Battery Installation Tools.....E14-4
Kopr-Shield® Conductive Anti-Corrosion
Surface Compound.....E14-4
Sand Cast Tin Plated
Flag E14-2
Elbow E14-2
Straight.....E14-1
Splices
(2 way connectors).....E14-3
Stackable Battery Connectors,
Lead Plated E14-3
Starter Lugs, Tin Plated.....E14-2
Universal Battery Connectors.....E14-1
E-Z-CODE®
Identification Products E14-10
MARRETTE®
Wire Connectors, Non-Winged,
Winged E14-10

T

SHRINK-KON®
Heat Shrinkable Insulators E14-5
TY-RAP® Cable Tying System
Cable Straps and Clamps.....E14-9
Cable Ties
Standard Nylon 6/6 .....E14-8
Weather Resistant,
Nylon 6/6 .....E14-8
DELTEC® Cable Ties.....E14-6
Mounting Bases (Adhesive backed,
Epoxy or Screws) E14-9
Releasable Hanger Straps
Weather-Resistant E14-7
Stainless Steel Cable Ties.....E14-7
Universal Clamp E14-7
XTRAFLEX®
Corrugated Flexible
Nonmetallic Tubing.....E14-12
Liquidtight Nonmetallic
Conduit Tubing E14-11
Plastic Bullet® Liquidtight
Conduit fittings.....E14-11
THREAD CUTTING NUTS J10-50
THREAD CUTTING SCREWS
Flat Phillips.....A15-6
Hex Unslotted A15-5
Hex Washer Unslotted.....A15-5
Pan Phillips A15-6
Pan Slotted A15-6
Type "F" A15-5-6
THREAD FORMING TAP KIT,
OIL DRAIN PAN.....D10C-31
THREAD LOCKER GEL.....C11-14
THREAD LOCKERS C11-7-8, 14
THREADLOCKER TAPE C11-8
THREAD REPAIR
Clinch-Nuts® A17-1, J10-52
Tools.....A17-1
Coil-Thread.....A17-5-6
Tools.....A17-6
Drill Out D10C-33
External Bolt Rethreading Tool D10C-32
Extractor Tools.....D10C-32-33
Grip-N-Serts.....A17-2
Heli-Coils.....A17-6
Oil Drain Plug Repair Kit.....A17-6
Internal Thread Restorers D10C-32
GM Brake Caliper A17-6
Keenserts.....A17-3-4
Mandrels and Nosepieces.....J10-53
Oil Drain Plug Repair Kit.....A17-6
Rivet-Nuts A17-2, J10-53
Tools.....A17-1, J10-53
Spark Plug Coil Thread.....A17-5
Tap & Die Kits D10C-30
Universal Thread Repair
Combo - Int. & Ext. D10C-31
THREAD ROLLING SCREWS A15-6
THREAD SEALANTS
Compound C11-8
Permatex C11-8
Pro Lok™ Products.....C11-7
Sealing Tape.....C11-8
Teflon C11-8
Threadlocker.....C11-7-8, 14
THREAD TREATMENT STICKS,
LOCTITE® C11-5
THREADED PITCH GAUGE D11-12
THREADED ROD
Anchoring System, Hangermate®.....A21-9
B-7 .....A12-10
Brass A13-19
Metric A16-21
SAE & USS.....A12-10
Stainless Steel A13-9
Metric.....A16-30
Standard Steel A12-10
THREADED ROD COUPLINGS
Metric A16-21
Standard A12-11
THREADED SLEEVE BRASS FITTINGS ...B13-19
THROTTLE LINKAGE BALL JOINTS A20-13
THUMB SCREWS.....A15-15
License J10-42

T

TIE DOWN STRAPS.....A20-4
TIP CLEANERS, WELDING.....D13-7
TIRE
Bow Tie Inserts.....H11-4
Cleaning Brushes D14-7
Europaste H11-8
Gauges.....G16-16
Pressure Gauges.....G16-16
Repair
Accessories
Valve Caps.....H11-2
Valve Cores H11-2
Valve Extensions H11-2
Bead Sealer.....H11-5, 7
Chemicals.....H11-3, 5, 7
Marking Crayons H11-7
Mounting Lubricant.....H11-3
Patches H11-3-6
Radial.....H11-4, 6
Rema H11-4-5
Rubber Tire/Tube.....H11-6
Truck H11-4
Repair Plug-n-Patch H11-3
Repair Material H11-3
String.....H11-3
Repair Tool.....H11-6-7, G16-15-16
Rub-R-Kleen.....H11-7
Slime, Flat Tire Eliminator.....H11-7
Sliptac Bead Lubricant.....H11-8
Step D14-16
Strips H11-3
Swabs.....H11-7
Tire & Tube Compound H11-8
Tools H11-5-7, G16-15-16
Carbide Cutters H11-6
E-Z Plug Gun & Plugs H11-7
E-Z Probe.....H11-6
E-Z Strip Repair Needle H11-6
HD Truck Spring Repair Kit.....H11-6
Open End Needle.....H11-6
Professional HD Truck Tire Rasps .H11-5
Rema Stitcher.....H11-5
T-Handle Probe Tool.....H11-6
Tire String Repair Needle.....H11-6
Truck Closed-Eye Needle H11-6
Universal Cement H11-7
Valves.....H11-1-2
Bus H11-2
Snap-In High Pressure.....H11-1
Tubeless.....H11-1-2
Air-Liquid.....H11-2
Clamp-In H11-2
Inserting Tool H11-1
Yellow Tire Marking Crayons.....H11-7
TIRE & TUBE COMPOUND H11-8
TIRE/WHEEL TOOLS
Plug Gun.....G16-16
Probe G16-15
String Repair Tool.....G16-15
Thread Depth Gauge.....G16-16
Tube Deflator.....G16-16
Valve Core.....G16-16
Valve Fishing Tool.....G16-16
Valve Repair Tool.....G16-16
Valve Inserting Tool.....G16-16
Wheel Weight Remover.....G16-15
TITANIUM NITRIDE DRILLS D10B-19-20
TITEN™ HD THREADED ANCHORS A21-7
TOGGLE
Wing & Bolt Anchors.....A21-4
Drain Plug.....L14-6
Dual-Action A21-4
E-Z A21-5
Switches.....G12-1-3
Rubber Boot.....G12-2
TOGGLER® TOGGLE BOLTS.....A21-3
TOILET PAPER.....D14-14
TOOL COOLANT C10-7
TOOLS, SPECIAL ORDER.....D10C-45 INDEX
TORCH, MINI.....D13-10, E10-18A
TORCH, PENCIL FLAME.....D13-10
TORCH, SUPER BLASTER.....D13-10
TORCH, TS7000, SELF-IGNITING D13-10
TORQUE CONVERTER BOLTS & NUTS H17-1

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

T

TORX BITS D11-1-2
TORX FLOORBOARD SCREWS....A15-18
TORX KEYS D11-6
TORX PAN HEAD MACHINE SCREWS....A15-13
TOW CHAIN....A20-3
TOW ROPES A20-4
TOWELS
Blue Wiper D14-12
Dispenser D14-12
C-Fold D14-12
Dispenser D14-12
In A Box, Scott® D14-12
Kapow Heavy Duty C12-5
Kim "Brag Box" D14-12
Kraft Hand....D14-12
Dispenser D14-12
Shop D14-12
TRACTOR, 12V HALOGEN FLOOD SEALED BEAM ..G13-2
TRACTOR/UTILITY LIGHTS....G13-2
TRACTOR PAINT....C13-5
TRAFFIC CONES....D14-26
TRAILER CABLE E11-4
TRAILER LIGHTING CABLE....G15-25
TRAILER PLUG CLEANER....G15-25
TRAILER TAILLITE CONVERTER....G15-25
TRAILER WIRE CONNECTORS G15-24-25
TRANS/FUEL/AIR CONDITIONING
DISCONNECT SET G16-11
TRANSFER CASE & DIFFERENTIAL
PLUG, GM L14-7
4WD L14-7
TRANSMISSION
Additives, Smart Blend® C10-15
Aluminum Plug L14-7
Brass Fittings....H17-1
Compression Unions H17-1
Cooler Hose....H17-2
Cooler Line Connectors....H17-1
Cooler Line O-Rings H17-2
Cooler Line Retaining Clip
w/O-Rings, GM H17-2
C/V
Boot Clamps....H17-3
Boot Kits....H17-2
Drain Funnels....G16-8-9
"E" Clips....H17-1
Filter Kits
Chrysler....H18-1-2
Ford....H18-2-4
General Motors H18-5-6
Import H18-7
Interchange H18-8-9
Fittings....H17-1-2
Flush Cooler Flush Kit C10-15
Fuller Special Fittings....B13-18
Gearshift Insulators....H17-1
Grommets....H17-1
Inverted Flare Nuts H17-1
Linkage Pins H17-1
Pan Bolt H17-2
Prep Assembly Lube....C10-15
Quick Disconnectors....H17-2
Shift Insulators....H17-1
Throttle Valve/Passing Gear
Rod Grommet H17-1
Torque Converter Bolt H17-1
Nuts H17-1
Vacuum Tees....H17-1
TRANSPARENT DUCT TAPE D14-2
TRANSPORT CHAIN....A20-1
TRASH BAGS D14-14
TRAYS & ACCESSORIES,
STORAGE M10-3-5, 10, 16
TRIANGLE, WARNING....G15-12
TRICO® EXACT FIT® WIPER BLADES....G10-2
Rack M10-15
TRICO® WINTER BLADES G10-2
TRIDON® ALL SEASON PLUS
BLADES/REFILLS G10-2
TRIDON® CUT-TO-FIT ALL SIZE
REFILLS™ G10-2
TRIM-KUT DISCS & ACCESSORIES....D10A-9
TRIM

T-U

Adhesive C11-14
Rivets J10-56, 60
Screws....J10-46
TRIPLE EDGE RECIPROCATING
SAW BLADES D10C-39-40
TRIPLE TOOTH HACKSAW BLADES....D10C-34
TROUBLE LIGHTS....D12-2
Accessories D12-2
Fluorescent....D12-2
TRUCK & VAN CABINETS & ACCESSORIES..19
TRUCK CIRCUIT BREAKERS....G14-6
TRUCK CLOSED-EYE NEEDLE....H11-6
TRUCK HARDWARE....G15-26
TRUCK MUFFLER CLAMPS
Heavy Duty H19-1
Welded....H19-1
TRUCK STUDS & NUTS....H14-10
TRUCK WASH BRUSH....D14-7
TRUCK WHEEL WEIGHTS....H10-2, 5-6
TS7000 SELF-IGNITING TORCH D13-10
TUBE BENDER B13-31
TUBE GRIP DISPENSER....C11-1
TUBE FITTING BRUSHES D10A-2
TUBING
Air Brake, Nylon....B13-30
Cold Shrink E12-7
Heat Shrink....E10-18B, E12-8-8B
Copper B13-30
Multiple Wire High Adhesive
Heat Shrink....E10-18B, E12-8A
Nylon, Gen. Purpose....B13-30
Nylon, Metric....B13-30
Polyethylene B13-30
Steel B13-30
Vinyl B13-29
TUBING CUTTER....B13-31
TUBING, GARAGE EXHAUST D14-6
TUBULAR SPEED NUTS....A11-10
TUNE-UP GREASE, PERMATEX®....C10-12
TURNBUCKLES....A20-7
TURN SIGNAL RETURN SPRINGS G12-3
TWINE A20-9
TWO CYCLE OIL....C10-14
TWIST LINK CHAIN A20-1
TWIST-LOCK DISCS, ROLOC D10A-10
TYLENOL EXTRA-STRENGTH D14-23

U • U • U

U-BEND HOSE COIL....L15-2
"U" BOLTS A12-9
18-8 Stainless Steel....A13-16
"U" SPEED NUTS A11-10, J10-35-36, 50
Metric A16-17
ULTRA DISC BRAKE CALIPER LUBE,
ULTRA MOLY MUSCLE DRILL BITS
Quick Release Style....D10B-24
ULTRA SCREWLOOSE®
SUPER PENETRANT....C10-3
UN-DO-IT TOOL....A15-20
UNDERCOATING....C13-1
UNIBIT
Titanium Step Drills D10B-20
Drills D10B-20, 26
UNIDRIFE® SPAX
FLAT HEAD SCREWS A15-19
UNINSULATED STEP-DOWN
BUTT CONNECTORS E10-14A-B, 30
UNIVERSAL BUZZER....G12-3
UNIVERSAL CEMENT H11-7
UNIVERSAL FLUORESCENT
LEAK DETECTOR DYE....L17-19
UNIVERSAL HIGH SIDE IN-LINE FILTER..L17-17
UNIVERSAL LEAD-FREE BATTERY
TERMINAL E15-4
UNIVERSAL LICENSE PLATE BRACKET....G15-20
UNIVERSAL ROLL TOWEL
DISPENSER D14-13
UNIVERSAL SAFETY LATCH KITS....A20-8
UNIVERSAL SIGNAL LIGHTING G15-6-10
UNIVERSAL SNOW PLOW/ATL LIGHTS..G15-23

U-V

UNIVERSAL SOCKET, MULTI-GRIP D11-1
UNIVERSAL THREAD REPAIR
COMBO - INT. & EXT. D10C-31
UNIVERSAL TYPE MOULDING FASTENERS...J10-37
UNTHREADED ROD A12-10
UPHOLSTERY CLEANER C12-13
URATIC SALT REMOVER, P-FREE....C14-5
URETHANE
Glass Sealant C11-14
URINAL BLOCKS D14-14
UTILITY BLADES D10C-44
UTILITY BOXES, PLASTIC M10-10
Stowaway Organizer M10-10
UTILITY BRUSHES, WIRE D10A-1-3
UTILITY CABINETS....M10-8
UTILITY GLOVES....D14-18
UTILITY HOOKS....A21-5
UTILITY KEY TAGS G17-1
UTILITY KNIFES....D10C-45
UTILITY LOCKS....G17-10
UTILITY SNIPS D10C-43

V • V • V

VACUUM
Caps L11-3
Connectors & Tees....L11-2
Hose G10-3, L11-1
Hose Fittings L11-2-3
Tees L11-2
Tools G16-11
VAL-U TRUCK LIGHTS G15-17-18
VALVE/O-RING LUBE
and SEAL C10-8, C14-3
VALVE, PCV L10-1-2
VALVES
Ball B10-8
Core Tools....L17-21
Cores & Kits L17-21
Drain Cocks....L15-3
Fuel Tank....B13-28-29
Gate B10-8
Heater, Manual B13-28-29
PCV L10-1-2
Shut-Off....B13-29
Water B13-29
VANDAL MARK REMOVER, GEL....C12-2
VANDLGARD NUTS....A11-9
VEHICLE MAINTENANCE TOOLS
Circuit Testers....D11-14
Battery Tools
Booster Cables....G16-10
Clamps G16-10
Cleaner & Protector....G16-11
Cleaner & Reshapers....G16-10
Fillers....G16-10
Testers G16-10
Puller G16-10
Brake Service Tools
Cutting Bits....G16-15
Cylinder Hones G16-13-14
Electrical Service Tool
Circuit Tester....D11-14
Distr. Term. Brush G16-12
Exhaust Tools
Pipe Shaper G16-13
E-Z Bond Tape D14-1
J-B Weld C11-10
Lubricating Tools
Big Range Filter Wrench....G16-1
Caulking Gun....D14-10
Funnels G16-8-9
Grease Fitting Remover....L14-12, G16-8
Grease Gun Coupler G16-6
Grease Gun....G16-8
"K" Car Adapter G16-6
Oil Filter Wrenches....G16-1
Suction Gun G16-8
Metal Epoxy
Fast Cure "45" C11-10
Plastic Epoxy

DESCRIPTION GROUP / PAGE

V-W

"Epoxy 45"....C11-10
Putties
Steel....C11-10
Radiator Cap Pliers....G16-12
Stik Epoxy....C11-10
Tire/Wheel
Gauges....G16-16
Plug Gun....G16-16
String Repair Tool....G16-15
Valve Inserter....G16-16
Wheel Weight Remover....G16-15
Tire Probe....G16-15
Valve Repair Tool....G16-16
Tube Epoxy & Adhesive....C11-11
J-B Weld....C11-10
VELCRO® CABLE WRAP....E12-14
VELCRO® TAPE....D14-5
VELOUR & CARPET CLEANER....C12-4, 13
VIBRA-TITE....C11-4
VINYL
Cleaner....C12-13
Gloves, Disposable....D14-19
VINYL SCREW ANCHORS....A21-2
VINYL TUBING....B13-29
VISE-GRIP PLIERS....D11-8
VITON INSERT OIL DRAIN PLUG GASKETS....L14-9
VOLTAGE SENSING WIRE STRIPPER....D11-14
VOLTAGE TESTER, AC SENSOR....D11-14

W • W • W

WALL DOG ANCHORS....A21-4
WALL GRIP ANCHORS....A21-4
WALLBOARD ANCHOR....A21-4
WAGNER
BriteLites....G13-2
Miniature Bulb/Lighting Program....G13-3
Storage Bin....G13-3
WASH MITT....D14-11
WASHERS
Back-Up....A19-25
Beveled, Square....A14-2
Bowed Spring....A14-3
Brass....A13-20
Bushings....A14-5
Cam-Lock, Steel....A14-5
Combination Internal / External Tooth Lock....A14-5
Copper Crush Met Drain Plug....L14-11
Copper, Metric....A16-19
Countersunk....A14-5
Finishing, Brass....A13-20
Finishing, Stainless Steel....A13-9
Deck....A14-6
Exhaust....H19-3
Fiber....A14-6
Fender
18-8 Stainless Steel....A13-9
Metric....A16-18
Steel....A14-3, J10-49
Finishing
Brass, N.P....A13-20
Steel, N. P....A14-3, J10-49
Flat
Brass....A13-20
Galvanized....A14-4
Grade 8
Alloy....A14-1
Heavy Duty....A14-2
L9®....A14-1
Metric....A16-18
Stainless Steel....A13-8-9
Standard USS & SAE....A14-2
Stainless Steel....A13-8-9
Galvanized....A14-4
Galvanized, Bonded Self Sealing....A14-6
Galvanized, Lock....A14-4
Lock Washer, Metric....A16-18
Galvanized....A14-4
Silicon Bronze....A13-21

W

Stainless Steel....A13-9
Supralloy....A14-4
Toothed....A14-5
Machine Screw, Steel....A14-3
Machinery Bushings....A14-5
Nylon....A14-3
Oversized, Steel....A14-3
Rivet Back-Up....A19-25
Self-Sealing Galvanized....A14-6
Silicon Bronze....A13-21
Split Lock
Hi-Collar....A14-4
Standard....A14-4
Supralloy High Strength....A14-4
Spring Steel, Bowed....A14-3
Metric....A16-18
Square Beveled....A14-2
Stainless Steel....A13-8-9
Standard Alloy....A14-2
Supralloy L9®....A14-1
Toothed....A14-5
Stainless Steel....A13-8
Vibration Resistant....A14-5
WASP & HORNET KILLER PLUS™....C14-1
WATER HOSE....D14-17
Menders....D14-17
WATER HOSE ACCESSORIES....D14-17
WATER NOZZLE....G16-9
WATERLESS HAND CLEANER, E-Z CLEAN....C12-8
WATERPROOF CONNECTORS....E12-3
WATER SEPARATOR, IN-LINE....B11-2
WATER VALVES....B13-29
WD-40®....C10-6
WEATHER-PACK CONNECTORS....G11-9
WEATHERCAPS....H19-4
WEATHERHEAD - HYDRAULICS....B29-1
WEATHERSTRIP
Adhesive....C11-14
Retainers and Clips....J10-12-13
Rubber....D14-4
Tape....D14-4
WEDG-LOK COTTER PINS....A18-2
WEIGHT GRADED PAG OIL....L17-18
WELD-OUT SPOTWELD DRILLS....D10B-25
WELD STUD REPLACEMENT SCREW, SS....J10-45
WELDING
Amco "C-Flux" Paste....D13-10
Anti-Spatter....D13-8
Bionic™ Shield....D13-11, D14-20
Replacement Visors....D13-11, D14-20
Blankets....D13-7
Brazing Rods....D13-1, 4A
Brushes....D13-6
Cable....E11-4, D13-6
Cable Connector Set....D13-6
Clamp, Vise-Grip....D11-8
Cleaner Kit....D13-7
Electrode Holder....D13-6
Face Shields....D13-11
Windows....D13-11
Flash Goggles....D13-7
Fluxall Soldering Flux....D13-10
Gloves, Heavy Duty....D13-7
Goggles....D13-7
Ground Clamp....D13-6
Hammers, Welding....D13-6
Heat Absorbing Paste....D13-8
Helmet....D13-11
Lenses & Plates....D13-7
Mig Wire....D13-5
Aluminum....D13-5
Cabinet....M10-13
General Purpose....D13-5
High Strength....D13-5
Mini Torch....D13-10
Pencil Flame Torch....D13-10
Rod Cabinet....M10-13
Rod Canisters, Patriot....D13-8
Rods....D13-1-4, 5
Scavenger Welding Wire....D13-5
Silver Braze Flux Paste....D13-10
Soapstone and Holder....D13-7

W

Solder
Electrical....D13-9
General Purpose....D13-9
Paste....D13-9
Plumbing/Wiping....D13-9
Spark Lighter....D13-7
Super Blaster Torch....D13-10
Tip Cleaner....D13-7
TS7000, Self-Igniting Torch....D13-10
Vise/Clamp Combo....D11-8
Vise-Grip Clamps....D11-8
Welding Rods, Patriot....D13-1-4, 5
Wire Brushes....D13-6
WELL NUTS....J10-51
WEST COAST MIRROR....G15-3
WHEEL BEARING
Grease....C10-13
WHEEL CASTER, CANTED....D14-16
WHEEL DISPENSER....M10-14
WHEEL NUTS
Bulge....H14-7-8
Covers....H14-9
Special....H14-7-9
Standard....H14-6
WHEEL REPAIR TOOLS....G16-15-16
WHEEL STUDS....H14-1-5
Farm Equipment....H14-1, 5
Trucks....H14-10
WHEEL WEIGHT REMOVER....G16-15
WHEEL WEIGHT TOOLS....H10-6-7
WHEEL WEIGHTS
Adhesive Style....H10-6
Non-Lead....H10-6
Assortments....H10-7
AW Series....H10-3
AWN Series....H10-3
EN Series....H10-5
FN Series....H10-5
I7 Series....H10-6
I9 Series....H10-6
IAW Series....H10-4
LH Series....H10-5
LT1 Series....H10-5
MC Series....H10-4
MCN Series....H10-4
P Series....H10-2
PS Coated Series....H10-2
QuickStik....H10-6
T Series....H10-2
TN Series....H10-2
Tools....H10-6-7
Truck....H10-2, 5-7
Uncoated....H10-2-4
WHEELS
Creeper....D14-16
Cut Off....D10A-12-13
Depressed Center....D10A-11
Grinding....D10A-11-12
Wire....D10A-1-3
WHIP HOSE ASSEMBLY....B11-1
WHITE SILICONE, RTV SEALANT....C11-1
WHITE SILICONE, RTV "MAKE-A-GASKET"....C11-1
WHITE GREASE
Lithium....C10-7
Lithium with Teflon, Aerosol....C10-6
Maxi Lube....C10-4
WICKING GRADE THREAD LOCK....C11-7
WINDOW
Glass and Door Rivets....J10-56, 60
Scraper....D10C-44
Squeegee....D14-8, 11
WINDSHIELD
De-Icer....C14-1
Repair Kit....C11-16
Reveal Moulding Clips & Fasteners....J10-12
Washer
Solvent Concentrate....C14-2
Solution Hydrometer....G16-13
Wiper Blades
Anco®
31-Series....G10-3
Aerovantage....G10-3
Rainy Day....G10-3

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

W

Bosch
DirectConnect G10-1
Evolution G10-1
Micro Edge G10-1
Winter Snow G10-1
Trico®
Exact Fit® G10-2
Rack M10-15
Winter Blades G10-2
Tridon®
All Season Plus™ G10-2
Cut-To-Fit G10-2
WINDSHIELD / GLASS GUIDES, CLIPS
Door Window Glass Guides J10-13
Door and Window
Crank Handle Clip J10-13
WEATHERSTRIP RETAINERS AND CLIPS J10-12-13
WINDSHIELD & BACKGLASS REVEAL MOULDING CLIPS AND FASTENERS
Reveal Moulding Clips J10-12
WINDSOFT® CENTER-FLOW HAND TOWELS D14-13
WING NUTS
Forged, Steel A11-8
Metric A16-17
Stamped, Steel A11-9
WINGED SELF-DRILLING SCREWS A15-10
WINGNUT LOCKING DRAIN PLUGS L14-6
WINTER/SUMMER FANS G10-3
WIPER
Blade Refills G10-1-3
Hose G10-3
Linkage Bushing G10-3
Racks M10-15
WIPERS
Disposable D14-12-13
Blue, On A Roll D14-12
Dispenser D14-12
WIPES
Antiseptic D14-24
E-Z C12-9
Gojo C12-8
Insect Repellent C14-1
Lens Cleaning D14-20
Sunscreen C14-1
WIRE
Brush D10A-1-3
Connectors
1/4" Female Quick Disc. T-Tap E12-4
3M Scotchlok™ Communication E12-6
Bullet Receptacle E12-4
Closed End E12-3, 4B
Direct Burial Splice Kits E12-1
Grounding E12-4
Instant Auto-Electrical E12-5
Motor Pigtail E12-2
Nylon Liquid Tight Strain Relief Cord E12-6
O/B, R/Y and B/G Scotchlok™ 2 Wire E12-2
Posi-Lock™ E12-4
Scotchlok™ 804 Moisture-Resistant Tap Connector E12-5
Self-Stripping Electrical Pigtail E12-6
Silicone-Filled Safety E12-3
Tru-Lock E12-4
Wire Nut E12-1
Waterproof E12-3
Coverings E12-19
Crimping Tool D11-13-14
Cutting Pliers D11-6-7
Gauge Chart E11-1
Lamp E11-3
Markers E12-7
Mechanics, Steel D14-15
Music D14-15
Primary
Bonded Parallel E11-3
Cross-Linked Insulation E11-2
Jacketed Plastic
Duplex E11-3
Triplex E11-3

W

Quadraplex E11-3
PVC Insulation E11-2
UL Listed E11-3
Rope A20-6
Vinyl Coated A20-6
Service Cord E11-3-4
Speaker E11-3
Strippers D11-13, 15
Terminal Brush G16-10
Ties E12-10-13
Tools E12-13
Trailer Lighting E11-4
Utility Brush D14-7
Welding D13-5
WIRE ROPE A20-6
Clips A20-5
Lubricant C10-5
Thimbles A20-5
Vinyl Coated A20-6
WIRE SOLDER D13-9
WIRE STRIPPER D11-13, 15
Voltage Sensing D11-14
WIRE WHEELS D10A-1-3
WIRING DEVICES
Cord Connectors
Ericson® Heavy Duty/ Industrial Type E13-1
Heavy Duty / Industrial Type E13-1
Industrial Auto-Grip E13-1
Versatile Weather-Resistant Field Conversion E13-1
In-Line Portable GFCI Receptacles E13-1
Multiple Outlet Strip E13-1
Surge & Noise Suppressors E13-1
WONDER PREMIUM HAND CLEANER C12-9
WOOD INSERTS, BRASS A11-9
WOOD SCREWS
Brass A13-17-18
Flat Phillips A15-17
Flat Slotted A15-16
Oval Slotted A15-17
Round Slotted A15-18
Square Drive, Flat A15-17
Stainless Steel A13-10-11
WOODRUFF KEYS A18-9
WOOL
Bronze D10A-16
Steel D10A-16
WOUNDSEAL™ D14-22
WORK GLOVES
HEAVY CANVAS D14-18
HEAVY DUTY D14-18
JERSEY D14-19
WORK LIGHTS D12-3
WORX™ HAND CLEANER C12-5
WRAP, RUBBER AMALGAMATING TAPE D14-2
WRENCH SETS, BLACKHAWK D11-4
WRENCHES
Adjustable D11-5
Combination D11-3-4
Drain Plug L14-7
Flare Nut D11-4
Flex Handle D11-3
Heavy Duty Pipe D1-4
Hex Key D11-5
Hex Key Sets D11-5-6
Internal Pipe D11-4
Oil Filter G16-1
Adjustable G16-1
"Big Range" G16-1
Import G16-1
"Swivel Grip" G16-1
"The Claw" G16-1
Wide Range G16-1
Ratcheting Adjustable Set D11-15
Serpentine Belt G16-13
Speed D11-3
WRISTBANDS, BUGBAND D14-26
WYPALL® WIPERS
Jumbo Roll Wiper Dispenser II D14-14
L30 Economizer® D14-13
L40 ....D14-13
X60 Teri® D14-1

X-Y-Z

X • X • X

X-OUT™ DAMAGED SCREW REMOVER D10C-33

Y • Y • Y

"Y" CONNECTORS L11-2
YOKE ENDS A20-13

Z • Z • Z

ZENKILL III - LONG SHOT WASP & HORNET KILLER C14-1
ZINC GALVANIZING AEROSOL C13-3
ZIP-IT™ ANCHORS A21-5
ZIRCONIUM
Blue Flash Flap Discs D10A-5
Mini D10A-5
Twist-Lock Mini Flap Discs D10A-6

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION	GROUP / PAGE	DESCRIPTION	GROUP / PAGE	DESCRIPTION	GROUP / PAGE

H - UNDER CAR

H10	WHEEL WEIGHTS	H10
H11	TIRE REPAIR	H11
H13	BRAKE PARTS	H13
H14	WHEEL STUDS & NUTS	H14
H15	HYDRAULIC LINES & FITTINGS	H15
H17	DRIVE TRAIN HARDWARE	H17
H18	TRANSMISSION FILTERS	H18
H19	EXHAUST PARTS	H19

H10-WHEEL WEIGHTS

Passenger Car Rim Gauge H10-6
Wheel Weight Assortments H10-7
Wheel Weight Tools H10-6-7
Wheel Weights, Adhesive H10-6
Removal Tool H10-6
Wheel Weights, Coated (Alloy)
"AWN" Series H10-3
"EN" Series H10-5
"FN" Series H10-5
"IAW" Series H10-4
"LH" Series H10-5
"MCN" Series H10-4
Wheel Weights, Coated (Alloy),
Heavy Duty Truck
"19" Series H10-6
Light Duty Truck
"LT1" Series H10-5
Medium Duty Truck
"17" Series H10-6
Wheel Weights, Coated (Steel)
"PS" Series, Silver H10-2
Light Duty Truck
"TN" Series H10-2
Wheel Weights, Uncoated (Alloy)
"AW" Series H10-3
"MC" Series H10-4
Wheel Weights, Uncoated (Steel)
"P" Series H10-2
"T" Series H10-2

H11-TIRE REPAIR

Tire Repair
Accessories
Caps H11-2
Cores H11-2
Extensions H11-2
Cement H11-7
Chemicals H11-3, 5, 7
Europaste H11-8
Gun Plugs H11-7
Marking Crayons H11-7
Patches H11-3-6
Rasps H11-5
Repair H11-3-7
Slime™ Flat Tire Eliminator™ H11-7
Sliptac Bead Lubricant H11-8
String H11-3
Tire & Tube Compound H11-8
Tools H11-5-6
Truck Patches H11-4
Valves H11-1-2
Assortment H11-2
Bus H11-2
Tubeless .....H11-1 to 2
Assortment H11-1
Inserting Tool H11-1

H13-BRAKE PARTS

Brake Bleeder Screws H13-3
Assortments H13-3
Copper Sealing Gaskets H13-3
Disc Brake Parts
Domestic H13-1
Import H13-1-2
Drum Brake Holddown Parts H13-4
Guide Bolts H13-2
Guide Pins H13-2
Info Page on Brake Parts H13-1

H14-WHEEL STUDS & NUTS

Cap Nuts H14-9-10
Cast Spoke Wheels & Nuts H14-10
Wheel Nut Specifications H14-9
Wheel Nuts
Bulge Nuts H14-7-8
Covers H14-9
Special H14-7-8
Standard H14-6
Wheel Stud & Nut Assortments H14-1
Wheel Stud Specifications H14-2
Wheel Studs H14-2-5
Farm Equipment H14-5
Oversize H14-5

H15-HYDRAULIC LINES & FITTINGS

Bolts, Hose Inlet Flex Line H15-5
Copper Gaskets H15-5
Hydraulic Brake Info Page H15-1
Hydraulic Brake Line Assortments ..H15-1
Hydraulic Brake Lines
Adapters H15-5-6
Assortment H15-6
Fittings H15-2, 4-6
PVF Coated H15-2
Assortments H15-2
Replacement Kits H15-3
Steel (Fractional & Metric) H15-1
Unions H15-2, 5
Hydraulic Brake Line Fittings ...H15-2, 4-6
Hydraulic Brake Line Tubing H15-3
Pliers H15-3
Retainer Clips, Steel & Nylon Tubing H15-5
Assortment H15-5
Steel Tubing H15-2
Tube Nuts H15-4
Assortments H15-6

H17-DRIVE TRAIN HARDWARE

C/V Boot Clamps H17-3
C/V Boot Kits H17-2
Pan Bolts H17-2
Assortment H17-2
Transmission Service Parts
Compression Unions H17-1
Chrysler Brass Fittings H17-1
Cooler Line Connectors H17-1
"E" Clips H17-1
Gear Shift Insulators H17-1
GM Cooler Line Retaining Clips ..H17-2
Inverted Flare Nuts H17-1
Linkage Pins H17-1
Plastic Vacuum Tees H17-1
Quick Disconnectors -
Trans./Oil Line. H17-2
Torque Converter Nuts & Bolts ...H17-1
Transmission Cooler Hose H17-2

H18-TRANSMISSION FILTERS

Automatic Transmission Filter Kits
Chrysler H18-1-2
Ford H18-2-4
General Motors H18-4-6
Import H18-7
Interchange H18-8-9
Technical Data H18-1

H19-EXHAUST PARTS

Air Tube Components H19-1
Band Clamps H19-4
Bolts H19-3
Clamp-A-Stud H19-4
Emission Clamps H19-1
Exhaust Hardware Assortments ..H19-2-3
Exhaust Manifold Hardware H19-2
Flanges
Catalytic Converter Laminated
Steel Split Kit H19-2
Chrysler Split H19-2
Ford Split Kit H19-2
Hardware H19-2-4
LapJoint Band Clamps H19-4
Manifold Nuts H19-3
Muffler
Clamps H19-1
Hangers H19-1
Nuts H19-3
Screws H19-3
Sealclamps H19-4
Studs H19-2
Washers H19-3
Weathercaps® H19-4

NOTES

WHEEL WEIGHTS

UNCOATED TYPE
AW, MC, P, T

COATED TYPE
AWN, EN, FN, IAW, LH, MCN, PS

LIGHT DUTY TRUCK
LT1, TN

MEDIUM DUTY TRUCK
I7

HEAVY DUTY TRUCK
I9

SPECIALTY
FSGET
coated for Lincoln Navigator

TAPED
Adhesive Style Lead and Non-Lead

We offer a wheel weight program that consists of original equipment approved products. With more cars and light trucks coming equipped with expensive alloy wheels, it is important to have the right products to properly service them.

All wheel weights are NOT created equal. Our wheel weights for steel wheels have over twice the retention of the closest competitor's weight for steel wheels.

In addition to fitting correctly, they are specially coated with Wheel Protectors® polymer coating. Wheel Protectors polymer coating is the approved original equipment coating used on new cars' and light trucks' wheel weights to prevent corrosion of the alloy wheel that normally occurs when uncoated or improperly coated wheel weights are used. They are designed to meet or exceed all OEM specifications to protect the wheels from damaging corrosion for the life of the vehicle when recommended service service intervals are followed.

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WHEEL BALANCING PRODUCTS

UNCOATED WHEEL WEIGHTS for STEEL WHEELS

"P" SERIES

Used on all standard passenger car 13"-15" steel wheels. Clips are plated and batch salt-spray tested to comply with demanding OEM corrosion resistance specifications.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715240	1/4	50
715241	1/2	50
715242	3/4	50
715243	1	50
715254	1-1/4	50
715244	1-1/2	50
715255	1-3/4	50
715245	2	50
715256	2-1/4	50
715246	2-1/2	50

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715257	2-3/4	50
715247	3	50
715258	3-1/4	25
715248	3-1/2	25
715259	3-3/4	25
715249	4	25
715250	4-1/2	25
715251	5	25
715252	5-1/2	25
715253	6	25

"PS" COATED SERIES (Silver)

These are like our popular "P" Series weights with an OEM-style polymer coating in silver. They blend in with silver styled wheels, improving the appearance of the balanced wheel.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715160	1/4	25
715161	1/2	25
715162	3/4	25
715163	1	25
715164	1-1/4	25

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715165	1-1/2	25
715166	1-3/4	25
715167	2	25
715168	2-1/4	25
715169	2-1/2	25

"T" SERIES

Preferred by many due to sleek streamlined cross section. Has sufficient thickness to resist breakage when installed. Fits same applications as "P" type passenger weights. Due to additional length, available only thru 3 oz. Available in sizes: 1/4 oz. thru 3 oz. in 1/4 oz. increments.

***STYLES MAY VARY**

Note: Entire series will be discontinued once stock is depleted.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715175	1/4	50
715176	1/2	50
715178	1	50
715179	1-1/4	50
715180	1-1/2	50

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715181	1-3/4	50
715182	2	50
715184	2-1/2	50
715185	2-3/4	25
715186	3	50

COATED WHEEL WEIGHTS for TRUCK STEEL WHEELS

"TN" SERIES for LIGHT DUTY TRUCKS

Used on 1988 and Newer domestic light trucks with decorative and larger thickness steel wheels. The special polymer coating ens ures that these decorative steel wheels are not damaged by corrosion. Also used on 1997 and Newer Ford F100, F150, Ford Expedition, and Lincoln Navigator alloy wheels. 1999 and Newer Chevrolet and GMC full size trucks with alloy wheels.

CADILLAC
2001 Escalade
CHEVROLET TRUCKS
2005-88 All Full Size with steel wheels
2005-99 All Full Size with alloy wheels
DODGE TRUCKS
2005-93 All Full Size with steel wheels
FORD TRUCKS
2005-92 All Full Size with steel wheels
2005-92 Explorer with chrome over steel
2005-97 Expedition, Excursion, F150 with alloy wheels

GMC TRUCKS
2005-88 All Full Size with steel wheels
2005-99 All Full Size with alloy wheels
LINCOLN
2005-98 Navigator
MERCURY
2005-92 Mountaineer with chrome over steel

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715513	1/4	25
715514	1/2	25
715515	3/4	25
715516	1	25
715517	1-1/4	25
715518	1-1/2	25
715519	1-3/4	25
715520	2	25
715521	2-1/4	10

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715522	2-1/2	10
715523	2-3/4	10
715524	3	10
715525	3-1/4	10
715526	3-1/2	10
715527	3-3/4	10
715528	4	10
715529	4-1/2	10
715530	5	10

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WHEEL BALANCING PRODUCTS

COATED WHEEL WEIGHTS for ALLOY WHEELS

for alloy wheels have a special polymer coating. The silver/gray coating prevents corrosion of the alloy wheel that normally occurs with uncoated wheel weights. They are designed to meet or exceed all OEM specifications to protect the wheels from lead staining corrosion for the life of the vehicle.

1. Some GM vehicles equipped with Vogue chrome-plated aluminum wheels require **QuikStik®** adhesive weights.
2. Some vehicles equipped with **Polycast®** wheels require **"MCN" series** weights on the outboard side and **"P" series** on the inboard side.
3. Some models require **"FN" series.**

ACURA
1995-89 All
AMC/EAGLE
1987-83 Alliance
1988-80 Eagle
1987 GTA
1992-88 Premier
BUICK
1996-80 Century
1990-80 Electra, LeSabre & Park Ave.
1988-80 Regal
1990-80 Riviera
1999-82 Skylark
1987-85 Somerset Regal
CADILLAC
1990-80 All makes & models
CHEVROLET
1996-87 Beretta
1992-80 Camaro
1990-80 Caprice, Impala
1999-83 Cavalier
1990-83 Celebrity
1985-80 Citation
1996-87 Corsica

CHEVROLET (cont'd)
2005-80 Corvette
1983-80 Malibu
1988-80 Monte Carlo
1988-85 Nova (FWD)
1988-85 Spectrum
1980 Vega
1995 G10 Series Van
CHRYSLER
1995/prior All makes & models
DODGE
1995/prior All makes & models
GEO
1993-90 Storm
GMC
1987 Caballero
1992-87 Jimmy K5, Yukon K5 4WD
1994-87 Jimmy S15 2WD & 4WD
1993-87 S15 Series & Sonoma 2WD & 4WD
1991-87 C1500 & R1500 Series 2WD Pickup & Suburban
1992-87 Safari Mini Van, 2WD & 4WD
1995-87 G1500 Series Van

GMC (cont'd)
1991-87 K1500 & V1500 Series 4WD Pickup & Suburban
1995 G Series Van
ISUZU
1995/prior All makes & models
JEEP
1992-91 Briarwood
1997-87 Cherokee Sport Wagon 2WD & 4WD
1992-87 Comanche 2WD & 4WD Pickup
1988-87 J10 Pioneer Series Pickup
1988-87 Grand Wagoneer
1990-87 Wagoneer (XL Model)
1997-87 Wrangler
OLDSMOBILE
1990-80 98 Regency & Delta 88
1991-85 Calais
1988-80 Cutlass (RWD)
1996-82 Cutlass Ciera
1996-88 Cutlass Supreme (FWD)
1988-82 Firenza, Starfire
1984-80 Omega

OLDSMOBILE (cont'd)
1991-80 Toronado
1998-92 Achieva
1994-91 Bravada
PLYMOUTH
1989-80 All makes & models
PONTIAC
1990-82 6000
1990-80 Bonneville
1988-84 Fiero
1996-80 Firebird
1999-85 Grand Am (exc. w/16" wheels)
1988-80 Grand Prix
1999-82 J2000
1984-80 Phoenix
1999-95 Sunbird/Sunfire
1988-85 Sunburst
1995-81 Trans Am w/15" wheels
Sterling
1990-89 All makes & models

UNCOATED

"AW" SERIES

Except for the coating, the design features and applications are identical to the "AWN" series. The "AW" series is an economical alternative to OEM quality wheel weights.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715362	1/4	50
715317	1/2	50
715363	3/4	50
715318	1	50
715364	1-1/4	50
715319	1-1/2	50

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715365	1-3/4	50
715320	2	50
715366	2-1/4	50
715321	2-1/2	50
715367	2-3/4	50
715322	3	50

COATED

"AWN" SERIES

The "AWN" series is the recommended weight for all applications shown. The "AWN" series meets all OEM quality specifications.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715370	1/4	25
715371	1/2	25
715372	3/4	25
715373	1	25
715391	1-1/4	25
715374	1-1/2	25

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715392	1-3/4	25
715375	2	25
715393	2-1/4	25
715376	2-1/2	25
715394	2-3/4	25
715377	3	25

- Except for the coating, the design features of the **AW & MC** series are identical to the **AWN & MCN** series.
- These series are economical alternative to OEM quality coated weights.

*** We recommend that coated weights be used on all vehicles having alloy wheels.**

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WHEEL BALANCING PRODUCTS

WHEEL WEIGHTS for ALLOY WHEELS

COATED WHEEL WEIGHTS

for alloy wheels have a special polymer coating. The silver/gray coating prevents corrosion of the alloy wheel that normally occurs with uncoated wheel weights. They are designed to meet or exceed all OEM specifications to protect the wheels from lead staining corrosion for the life of the vehicle.

1. Some GM vehicles equipped with Vogue chrome-plated aluminum wheels require **QuikStik®** adhesive weights.
2. Some vehicles equipped with **Polycast®** wheels require **"MCN" series** weights on the outboard side and **"P" series** on the inboard side.
3. Some early 1990 vehicles used **"AWN".** Verify application with rim gauge.

AMC/EAGLE
1997-89 Summit
1998-90 Talon & Vision
BUICK
1999-91 Riviera
2005-88 Regal
2005-97 Century
CADILLAC
1996-93 Brougham (Fleetwood RWD)
2005-91 Deville
2005-92 Eldorado
1993-91 Fleetwood (FWD)
2005-92 Seville
CHEVROLET
1991-88 Beretta
2005-00 Cavalier
2005-89 Lumina APV
2001-89 Lumina Sedan
2005-97 Malibu, Malibu Maxx

CHEVROLET (cont'd)
2005-93 Camaro / Iroc Z & Z28
1996-92 Caprice
2005-95 Monte Carlo
2005-00, Impala
1996-95
CHRYSLER
1997-90 All makes & models
DODGE
1997-90 All makes & models
FORD
2005-80 All makes & models
LINCOLN
2005-80 All makes & models
MAZDA
2005-80 Some makes & models
MERCURY
2005-80 All makes & models

MITSUBISHI
1998-90 Eclipse
OLDSMOBILE
2005-90 Some makes & models
PLYMOUTH
2000-90 Most makes & models
PONTIAC
2005-89 Grand Prix
1990-88 Trans Am w/16" wheels
2005-95 Trans Sport APV
2005-91 Bonneville
2005-96 Firebird & Trans Am
SATURN
2005-91 All
SUBARU
2005-96 Legacy

Trucks with 16x6k tubeless type steel wheels

*Some wheels require QuikStik weights. Recommended where there is no flange or the flange is less than 3/16" deep.

UNCOATED

"MC" SERIES

Except for the coating, the design features and applications are identical to the "AWN" series. The "AW" series is an economical alternative to OEM quality wheel weights.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715432	1/4	50
715311	1/2	50
715433	3/4	50
715312	1	50
715434	1-1/4	50
715313	1-1/2	50

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715435	1-3/4	50
715314	2	50
715436	2-1/4	50
715315	2-1/2	50
715437	2-3/4	50
715316	3	50

COATED

"MCN" SERIES

The "MCN" series is the recommended weight for all applications shown. The "MCN" series meets all OEM quality specifications.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715380	1/4	25
715381	1/2	25
715382	3/4	25
715383	1	25
715395	1-1/4	25
715384	1-1/2	25

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715396	1-3/4	25
715385	2	25
715397	2-1/4	25
715386	2-1/2	25
715398	2-3/4	25
715387	3	25

- Except for the coating, the design features of the **AW & MC** series are identical to the **AWN & MCN** series.
- These series are economical alternative to OEM quality coated weights.

*** We recommend that coated weights be used on all vehicles having alloy wheels.**

COATED WHEEL WEIGHTS for ALLOY WHEELS

"IAW" SERIES

Used on many import car alloy wheels. They replace most two-piece alloy wheel weight designs commonly found on vehicles manufactured in Europe.

PART NUMBER	SIZE (GRAMS)	PKG QTY
715170	5	25
715351	10	25
715352	15	25
715353	20	25
715354	25	25
715355	30	25

PART NUMBER	SIZE (GRAMS)	PKG QTY
715356	35	25
715357	40	25
715360	45	25
715358	50	25
715361	55	25
715359	60	25

Approximately 28 grams = 1 ounce

ACURA
1989 All makes & models
AMC/EAGLE
1990-88 Medallion
AUDI
1996-80 All makes & models
BMW
2005-80 All makes & models
GEO
1995-89 Metro
1990 Prizm
1990-89 Spectrum
1990 Storm
HONDA
1989 All makes & models

HYUNDAI
2005-95, All makes & models
1990-86 except Tiburon
2001-97 Tiburon
INFINITI
1990 All makes & models
JAGUAR
2005-88 All makes & models*
KIA
2005-95 All makes & models
LEXUS
1990 All makes & models
MERCEDES-BENZ
1990-80 All makes & models

MITSUBISHI
1999-96 3000GT
2005-95 Diamante
2005-99 Eclipse, Eclipse Spyder
2005-95 Galant
2005-03 Lancer
2003-95 Mirage
2005-95 Montero (Utility)
2005-04 Endeavor
2005-04 Lancer Sportback
2005-04 Outlander
1995 Pickup 2WD & 4WD
NISSAN/DATSUN
1990-80 All makes & models

SAAB
2005-83 All makes & models
SUBARU
2005-80 All makes & models except Legacy & Outback
TOYOTA
1990-88 All makes & models
volkswagon
1996-80 All makes & models
VOLVO
2005-80 All makes & models

RV's with Alcoa 16x6k wheels

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WHEEL BALANCING PRODUCTS

COATED WHEEL WEIGHTS for ALLOY WHEELS

"FN" SERIES

This series is designed for the thicker flange alloy wheel being used on many Japanese vehicles.

PART NUMBER	SIZE (GRAMS)	PKG QTY
715461	10	25
715462	15	25
715463	20	25
715464	25	25
715465	30	25
715466	35	25

PART NUMBER	SIZE (GRAMS)	PKG QTY
715467	40	25
715468	45	25
715469	50	25
715470	55	25
715471	60	25

Approximately 28 grams = 1 ounce

ACURA
2005-89 All makes & models*
2005-01 MDX Light Trucks*
AMC/EAGLE
1996-93 Summit Wagon
CHEVROLET
2001-98 Metro
2003-98 Prizm
DAEWOO
2005-99 All makes & models
DODGE
1994-93 Colt
GEO
1997-90 Prizm
1997-96 Tracker - 2WD & 4WD
HONDA
2005-89 All makes & models*
2005-98 CRV - 2WD & 4WD
2005-04 Element
2005-00 Odessey Mini Wagon
2005-02 Pilot

INFINITI
2005-97 All makes & models*
2003-97 QX4*
2005-04 QX56*
ISUZU
2005-97 All makes & models
LEXUS
2005-90 All makes & models*
2005-96 All light trucks
MAZDA
1996-88 929
2005-90 Miata
2005-95 Millenia
2005-95 MPV 2 & 4WD (Lace & Spoke)
2005-01 Tribute
2003-95 Protege, Protege 5
2005-04, 1996-93 RX7 & RX8
MERCURY
2003-95 Villager Mini Van

MITSUBISHI
1997-92 Diamante
1995-93 Galant
1997-93 Mirage
NISSAN/DATSUN
2005-90 All makes & models*
2005-04 Armada 2WD & 4WD
2005-95 Pathfinder*
2005-95 Pickup 2WD & 4WD
2005-95 Quest Mini Van*
2005-00 Xterra
PONTIAC
2005-03 Vibe
TOYOTA
2005-90 All makes & models*
2005-95 4 Runner (Utility) 2WD/4WD*
2005-95 All Pickups*
2005-01 Highlander
2005-95 Landcruiser
1996-95 Previa & Sienna 2WD & 4WD
2005-96 RAV4

*Some wheels require QuikStik weights. Recommended where there is no flange or the flange is less than 3/16" deep. Some vehicles are equipped with U.S. produced wheels. These have a different inboard/outboard configurations. Consult the wheel application guide or use a rim gauge, **Part No. 213361** to verify the correct application.

"LH" SERIES

The "LH" series meets all OEM quality specifications. Used on late model Chrysler cars. Designed to fit unique wheel flange profile.

CHRYSLER/DODGE/PLYMOUTH
2004-98 Chrysler Concorde, LHS, 300M
2005-98 Chrysler Town & Country
2005-98 Dodge Intrepid
2005-98 Dodge Caravan / Mini Ram Van FWD & AWD
2001-98 Plymouth Voyager Mini Van FWD & AWD
2005-98 Town & Country Van FWD & AWD
2005-02 PT Cruiser
2005-02 Voyager

PART NUMBER	SIZE (GRAMS)	PKG QTY
715501	1/4	25
715502	1/2	25
715503	3/4	25
715504	1	25
715505	1-1/4	25
715506	1-1/2	25

PART NUMBER	SIZE (GRAMS)	PKG QTY
715507	1-3/4	25
715508	2	25
715509	2-1/4	25
715510	2-1/2	25
715511	2-3/4	25
715512	3	25

"EN" SERIES

The "EN" series is designed for Acura, Audi, Honda, Mercedes Benz and VW Alloy Wheels.

ACURA
1988-86 All makes & models
AUDI
2005-97 All makes & models
HONDA
1988-80 All makes & models
MERCEDES BENZ
2005-95 All makes & models

VOLKSWAGEN
2005-97 All makes & models
2005-97 VW Eurovan

PART NUMBER	SIZE (GRAMS)	PKG QTY
715475	10	25
715476	15	25
715477	20	25
715478	25	25
715479	30	25
715480	35	25

PART NUMBER	SIZE (GRAMS)	PKG QTY
715481	40	25
715484	45	25
715482	50	25
715485	55	25
715483	60	25

Approximately 28 grams = 1 ounce

"LT1" SERIES for LIGHT DUTY TRUCKS

Used basically on light-duty trucks, 3/4 ton and 1 ton vehicles with either tube or tubeless rims where such rims are thick for "C" type series weights. Also for use on heavier trucks with thin rim flanges.

Note: Use "C" type weights on 1/2 ton vehicles.
INTERCHANGES WITH SP-9, BTS, B-1 SERIES

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715450	1/2	10
715451	1	10
715452	2	10

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715275	4	10
715276	6	10

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WHEEL BALANCING PRODUCTS

COATED WHEEL WEIGHTS for ALLOY WHEELS

"I9" SERIES for HEAVY DUTY TRUCKS

A thin style weight used on heavy-duty trucks where there may be interference with steering parts. Also for use on rims too thick for "I7" type weights. Basic rim sizes 7.50 and 8. Trucks 3 ton and over.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715283	4	12
715284	6	12
715285	8	12

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715286	10	12
715287	12	12

"I7" SERIES for MEDIUM DUTY TRUCKS

Most popular weight for the medium-duty trucks. Used on a majority of trucks with tube type tires. 1-1/2 to 3 ton trucks tube type rims 8.25 x 20 to 9.00 x 20. Interchanges with SP17, BTLM, E-7.

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715290	2	12
715291	2-1/2	12
715292	3	12
715293	3-1/2	12
715278	4	12

PART NUMBER	SIZE (IN OZ.)	PKG QTY
715279	6	12
715280	8	12
715281	10	12
715282	12	12

ADHESIVE STYLE WHEEL WEIGHTS & TOOLS

QuickStik® QuickTab® Segmented Adhesive Style Weights

Part No. 715272

Part No. 715273

Part No. 715274

PASSENGER CARS, MOTORCYCLES & LIGHT TRUCKS

The only pre-cut, pre-taped weight. With these unique features there is no cutting, no-pre-contouring, and no waste. Each segment stamped with the actual weight in ounces and grams. Box contains: 15-3 oz. strips pre-cut in 1/4 oz. (7 grams) increments of 1/2" width.

TRUCK & RV APPLICATIONS

Larger weight designed specifically for trucks and RVs. The 6 oz. 3/4" wide strips are pre-cut in 1/2 oz. (14 gram) increments. Each segment is stamped with the actual weight in ounces and grams. Each box contains 30 strips. Includes 360 weights (1/2 oz.)

TRUCK APPLICATIONS

The 6 oz. 3/4" wide strips are pre-cut in 1 oz. increments. Each segment is stamped with the actual weight in ounces and grams. Each box contains 30 strips. Includes 180 weights (1 oz.)

A NON-LEAD SOLUTION

LOW PROFILE

Part No. 715266

● 5 gram increments ● 60 grams per piece ● 25 pieces per box

STANDARD PROFILE

Part No. 715268

● 0.25 ounce increments ● 3 ounces per piece ● 25 pieces per box

- **NON-LEAD -** low environmental impact - non-toxic.
- **QUICKTAB® FEATURE -** easy removal of protective back liner.
- **PRE-SEGMENTED -** no cutting or complicated measuring, no special tools required.
- **UNIQUE TRAPEZOID CROSS SECTION DESIGN -** allows easy contouring to any wheel without bridging.
- **TWO SKU'S - STANDARD AND LOW PROFILE -** inventory consolidation.
- **HIGH PERFORMANCE ACRYLIC OE ADHESIVE -** superior adhesion and heat resistance.
- **WHEEL PROTECTORS® COATING -** protects wheel from discoloration and rust.

ADHESIVE WHEEL WEIGHT REMOVAL TOOL

Part No. 11339

- **Designed to remove wheel weights without damaging expensive rims.**
- **Made of high impact plastic.**
- **Simply pry off the wheel weight with the tool & a light tap of a hammer.**

PASSENGER CAR RIM GAUGE

Part No. 11339

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WHEEL BALANCING PRODUCTS

UNCOATED WHEEL WEIGHTS ASSORTMENTS

THE ECONOMICAL ALTERNATIVE

(OE coated weights recommended for cars produced after 1985.)

"AW" & "MC" SERIES

FOR GM, FORD & CHRYSLER

- **Combined domestic.**
- **Contains 1/2 to 3 ounce sizes.**

Part No. 501396
112 pieces • 12 items
12061 steel tray

715311	715315	715319
715312	715316	715320
715313	715317	715321
715314	715318	715322

Numbers in assortment

"P" SERIES

WITH FREE WHEEL WEIGHT TOOL NO. 11349

- **Five of the fastest moving weights, allows you to save space and cut unnecessary inventory.**

Part No. 715002
151 pieces • 6 items

11349	715243	715245
715241	715244	715246

Numbers in assortment

"TN" SERIES

FOR LIGHT DUTY TRUCKS

- **2005-88 Light Trucks.**
- **Contains 1/4 to 2 oz. sizes.**

Part No. 715531
92 pieces • 8 items
12043 plastic tray

715313	715316	715319
715314	715317	715320
715315	715318	

Numbers in assortment

"IAW" SERIES

FOR MOST EUROPEAN & JAPANESE CARS

- **2005-80 model applications.**
- **Toyota, Nissan, etc.**
- **VW, Volvo, Mercedes, etc.**
- **Contains 10 to 60 gram sizes.**

Part No. 715350
36 pieces • 9 items
12043 plastic tray

715351	715354	715357
715352	715355	715358
715353	715356	715359

Numbers in assortment

COMPLETE MASTER

- **Contains 53 different weights - (AWN, MCN, IAW, LH, FN, TN and EN Series.**
- **Includes 1,026 weights, free standing storage unit with application chart, coated weight hammer and a handy rim gauge.**
- **Covers most domestic and foreign late model OE alloy wheel applications.**

Part No. 715000

COMBINED DOMESTIC

- **Covers GM, Ford & Chrysler.**
- **AWN and MCN Series.**
- **Contains 1/4 to 3 ounce sizes.**
- **OE quality.**

Part No. 501419
74 pieces • 16 items
12050 steel tray

715370	715374	715380	715384
715371	715375	715381	715385
715372	715376	715382	715386
715373	715377	715383	715387

Numbers in assortment

WHEEL WEIGHT TOOLS

Installs, removes, trims & tightens all types of wheel weights. Both have plastic coated handles for added comfort.

- **This sturdy passenger car wheel weight tool is the industry standard.**

Part No. 11349

- **This tool features a special plastic on the hammer head for safe, mar-free installation of coated wheel weights used on alloy wheels**

Part No. 11356

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TUBELESS TIRE VALVES

TUBELESS TIRE VALVE ASSORTMENT

FREE
With every order of a Tubeless Tire Valve Assortment, you receive our Tubeless Tire Valve Tool, Part No. 715331, shown below, FREE.

Part No. 715001
60 pieces • 5 items

The 5 most popular valves giving the widest possible coverage:
715210, 715211,
715212, 715213,
715214

TUBELESS TIRE VALVE INSERTING TOOL

Designed to quickly and easily install any snap-in tubeless tire valve

Part No. 715331
Tool Only

1 - LUBRICATE before inserting by dipping lower half of valve in a soap solution.
2 - INSERT valve through rim hole and screw swivel head of tool on to cap thread.
3 - PULL valve, using tool handle as lever, into rim hole until it has seated properly.

ACTUAL SIZE TIRE VALVE ILLUSTRATIONS

Part No. 715715 (50)
.453” Rim Hole
Rim Size 14
(TR412)

Part No. 715210 (50)
.625” Rim Hole
Rim Size 15
(TR415)

Part No. 715211 (50)
.453” Rim Hole
Rim Size 14
(TR413)

Part No. 715201 (50)
.453” Rim Hole
Rim Size 14
(TR414)

Part No. 715212 (50)
.625” Rim Hole
Rim Size 15
(TR425)

Part No. 715213 (50)
.453” Rim Hole
Rim Size 14
(TR418)

Part No. 715214 (50)
.453” Rim Hole
Rim Size 14
(TR423)

AUTOMOTIVE CLAMP-IN TUBELESS TIRE VALVE

- **Universal.**
- **Rubber grommets fit .453 or 5/8” rim holes.**
- **Fits Schrader 36040K2-5.**
- **Fits Dill VS-902CR.**
- **Nickel plated.**

PART NUMBER	QTY	INDUSTRY NUMBER	LENGTH (INCHES)
715110	2	TR416	1-1/4

HIGH PRESSURE SNAP-IN VALVE

- **Ideal for car and light truck.**
- **Fits rim holes .453 or 5/8”.**
- **Maximum air pressure 100 PSI.**
- **Brass.**

PART NUMBER	QTY	INDUSTRY NUMBER	LENGTH (INCHES)
715151	25	TR600HP	1-1/4

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TIRE VALVES & ACCESSORIES

TRUCK & BUS CLAMP-IN TUBELESS VALVES

- Straight clamp-in valves.
- Fits 5/8" side hole mounting.
- For demountable and non-demountable rims.
- No special tools needed to install.

PART NUMBER	QTY	INDUSTRY NUMBER	LENGTH (INCHES)
715112	4	TR 571	3-17/32
715113	4	TR 501	1-21/32
715114	4	TR 500	2-5/32

PART NUMBER	QTY	INDUSTRY NUMBER	LENGTH (INCHES)
715115	4	TR 570	3-9/32
715116	4	TR 572	3-29/32
715117	4	TR 573	4-17/32

CLAMP-IN TUBELESS AIR-LIQUID VALVE

- For farmer tractor and roadgraders.
- Fast filling, large bore type.
- Complete with core housing.

PART NUMBER	INDUSTRY NUMBER	LENGTH (INCHES)
715143	TR618A	2-1/2

TIRE & VALVE PARTS ASSORTMENT

Part No. 501603
168 pieces • 19 items
12071 steel tray

11345	715212	715217	715241
715110	715213	715218	715242
715201	715214	715219	715243
715210	715215	715236	715244
715211	715216	715240	

Numbers in assortment

Excellent coverage for any shop that performs tire service & repair.

- Keeps all the small parts organized
- Includes the most popular valve stems, cores, caps, extensions and weights.

LARGE BORE VALVE CAP and ADAPTER

LARGE BORE VALVE CAP - HEX HEAD

Part No. 711457

PART NUMBER	INDUSTRY NUMBER	QTY
711457	TRVC7	10

LARGE BORE ADAPTER

Part No. 711460

- Reduces to standard bore .302-32 thread.
- Complete with gasket.

PART NUMBER	INDUSTRY NUMBER	QTY
711460	TR-AD1	10

V2B INFLATE THRU VALVE CAP

PART NUMBER	QTY	INDUSTRY NUMBER
715154	25	V2B

- Inflate, deflate or gauge directly thru the valve cap.
- Performs like a check valve, seal becomes tighter as air is added.
- Designed for hi-pressure truck tire service.
- Seals like a hi-pressure cap with convenience of an inflate thru extension.
- All metal housing, precision fit brass components, durable self-sealing o-rings.

VALVE CAPS

*Required by I.C.C. for trucks & other commercial vehicles.

PART NUMBER	MATERIAL	TYPE	QTY
715218	plastic	Std.	100
715219	metal*	Std.	25
715150†	metal	Std.	50
715200	gray plastic	Std.	100

† Nickel plated

VALVE CORES

- Universal short core.
- Fits all tire valves.

PART NUMBER	APPLICATION	QTY
715236	Universal Short Core	50
715152	VI-AH Short Heat resistant	50

REPLACEMENT CORE HOUSING

PART NUMBER	INDUSTRY NUMBER	APPLICATION	QTY
715107	TR-CH3	Complete w/valve core & cap. Fits new design fast flow tractor valves.	2

VALVE EXTENSIONS

PART NUMBER	MATERIAL	LENGTH	QTY
715215	plastic	3/4	25
715216	plastic	1-1/4	25
715217	plastic	1-1/2	25

TRUCK VALVE EXTENSIONS

Nickel plated hi-heat cap.

PART NUMBER	LENGTH	QTY
715129	4-1/8	2

VALVE STEM EXTENSION

For inner dual wheels.

Part No. 715130

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TIRE REPAIR

RADIAL TIRE PLUG-N-PATCH

Fills The Hole . . . Seals The Injury - Permanently, In One Easy Application

- **Radially reinforced to repair ALL radial tires.**
- **Plug and patch seal and vulcanize to become part of the tire.**

PART NUMBER	QTY	SIZE
715237	12	For 1/8" puncture
715238	12	For 1/4" puncture
715239	12	6 For 1/8" puncture 6 For 1/4" puncture

FREE - Carbide buffing cone in every box.

E-Z STRIP REPAIR

- **A vulcanizing "on the wheel" tubeless tire repair.**
- **Easily repairs sidewalls and shoulders.**
- **Serrated for positive grip.**
- **Becomes a permanent part of tire.**

PART NUMBER	WIDTH	QTY
715325	Regular width	50

E-Z STRIP REPAIR ASST.

1—box of 50 pieces—No. 715325 E-Z Strip Repairs
1—No. 715327 E-Z Strip Repair Needle
1—No. 715328 E-Z Probe
1—No. 715232 Universal Cement

Part No. 715004

RU-GLYDE® TIRE MOUNTING & RUBBER LUBRICANT

Industry-Approved — Triple Purpose

LUBRICATES TIRES
Makes tube and tubeless tire mounting and demounting faster & easier. Lubricates beads to protect against tool damage and to help seat beads on rim. Protects against tire slippage after mounting.

LUBRICATES RUBBER PARTS AND FITTINGS.
Removes squeaks from rubber bushings, grommets, stabilizer, linkage, shackles, strips.

CLEANS, RENEWS RUBBER, VINYL.
For tires, floor mats, leather and vinyl upholstery and tops. Helps restore a "Just New" look.

Part No. 211345G1
1 gallon

TIRE STRING

New Improved Tubeless Tire Repair Make Fast, Easy On-The-Wheel Repairs

4" FAT BROWN **Part No. 715332** 30
Use **Part No. 715327** Open-eye needle

6" BLACK **Part No. 715333** 50
Use **Part No. 715334** Closed-eye needle

- **Vulcanizes from road heat.**
- **Permanent repair in minutes.**

HEAVY DUTY TRUCK TIRE STRING

High tensile cord, assures no breakage.

7-1/4" BROWN **Part No. 715156** 25
Use **Part No. 715327** Open-eye needle

RU-GLYDE® II TIRE LUBRICANT CONCENTRATE

For Those Who Prefer to "Mix Their Own" at Less Cost
A lubricant concentrate for mounting and demounting tires that is easy to mix—no mess, no guess.
Just add water to the measured amount of concentrate in its container to make one gallon of full strength lubricant for fast, easy tire mounting and demounting.
When mixed and used according to directions, RuGLYDE II protects tire beads from tool damage and helps seat beads on rim.
Will not induce rust nor cause tires to slip on wheels after mounting & balancing.
Also recommended for rubber part and fitting lubrication.

Part No. 715202
26 oz. Concentrate in 1-Gallon Container

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REMA TIRE REPAIR

BOW TIE INSERTS

High tensile rubber that is covered by a dual cure cushion gum. Permanently bonds to the casing via dual cure vulcanization.

PART NUMBER	DESCRIPTION	SIZE	PER BOX
714556	Passenger Car	3/8 x 2-3/8	50
714557	Truck	5/8 x 3-1/8	20
714558	Earth Movers	3/4 x 4	20

COLD VULCANIZING FEATHER EDGE PATCHES

RED EDGE PATCHES
Use on: all tubes
Patches vulcanize without the application of heat when applied to properly prepared surface using REMA Cold Vulcanizing Fluid.

PART NUMBER	REMA NO.	PER BOX	SIZE (INCHES)
715406	0	100	1-1/4 round
715407	1	30	1-1/2 round
715408	2	30	1-3/4 round
715409	3	30	2-1/8 round
715410	4	30	3 round
715411	7	30	3 x 1-1/2 oval

REMA FLEX "R" "100 SERIES" CENTER-OVER-INJURY RADIAL REPAIR UNITS

Remaco's famous "100" Series of radial tire repair units has replaced older styles of "bead-to-tread-center" patches throughout the entire world... virtually revolutionizing the process of radial repair patch reinforcement. A truly amazing patch system. Each unit has a special "shock absorber" construction which absorbs and disperses the high flex forces designed into radial tires.

The following listing allows you to choose the patch you need according to vehicle and tire type and injury classification.

NUMERICAL LISTING OF REMA RADIAL TIRE PATCHES

PART NUMBER	REMA NO.	PER BOX	SIZE (INCHES)
715419	RAD 0	10	1-1/2 x 1-1/2
715420	RAD 110	20	2 x 2-3/4
715421	RAD 116	10	4 x 2-5/8
715423	RAD 120	10	3 x 4-7/8
			(Trucks)

PASSENGER CAR "100 SERIES"

PART NUMBER	REMA NO.	SIDEWALL MAX. INJURY SIZES (INCHES) A	SIDEWALL MAX. INJURY SIZES (INCHES) R	TREAD & SHOULDER MAX. INJURY SIZE (INCHES) C	TREAD & SHOULDER MAX. INJURY SIZE (INCHES) R	TIRE WIDTH / TYPE
715420	RAD 110	1/4	1/2	1/4	1/4	All Sizes
		1/2	1-1/2			125-185
715421	RAD 116	3/4	1-1/4	1/2	1/2	P155-P195
						All HR Rated
715423	RAD 120	1/4	1/4	1/4	1/4	Tire

LIGHT TRUCK "100 SERIES"

PART NUMBER	REMA NO.	SIDEWALL MAX. INJURY SIZES (INCHES) A	SIDEWALL MAX. INJURY SIZES (INCHES) R	TREAD & SHOULDER MAX. INJURY SIZE (INCHES) C	TREAD & SHOULDER MAX. INJURY SIZE (INCHES) R	TIRE WIDTH / TYPE
715420	RAD 110	up to 1/8		up to 1/8		All Sizes
715421	RAD 116	1/4	1/4	1/4	1/4	All Sizes
		1/2	1-1/2			
715423	RAD 120	3/4	1-1/4	1/2	1/2	6.00-7.50
						7 R-8.5R
						175R-215R
						(6-8PR)

BIG TRUCK "100 SERIES"

PART NUMBER	REMA NO.	SIDEWALL MAX. INJURY SIZES (INCHES) A	SIDEWALL MAX. INJURY SIZES (INCHES) R	TREAD & SHOULDER MAX. INJURY SIZE (INCHES) C	TREAD & SHOULDER MAX. INJURY SIZE (INCHES) R	TIRE WIDTH / TYPE
						8.25-14.00
715420	RAD 110	up to 1/8		up to 1/8		9.-15.5
						8.25-14.00
715421	RAD 116	up to 1/4		up to 1/4		9.-15.5
		2 cords x 3/4				6.50 x 14.00
715423	RAD 120	1 cord x 1-1/2				7.5-15.5

TRACTOR "100 SERIES"

PART NUMBER	REMA NO.	SIDEWALL MAX. INJURY SIZES (INCHES) A	SIDEWALL MAX. INJURY SIZES (INCHES) R	TREAD & SHOULDER MAX. INJURY SIZE (INCHES) C	TREAD & SHOULDER MAX. INJURY SIZE (INCHES) R	TIRE WIDTH / TYPE
715420	RAD 110	up to 1/4		up to 1/4		All Sizes
715421	RAD 116	3/8	3/8	3/8	3/8	All Sizes
715423	RAD 120	1-1/4	3/4	3/4	3/4	All Sizes

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REMA TIRE REPAIR & TIRE REPAIR TOOLS

REMA'S UNIVERSAL PATCH

The only patch you'll ever need for making a nail hole repair. The universal patch applies non-directional, center-over-injury, on any type of tire - passenger or truck, radial or bias, tube or tubeless.

PART NUMBER	REMA NO.	PER BOX	SIZE (INCHES)
715405	UP 6	20	2-3/4 x 2-3/4

SHOP TOOLS / MISCELLANEOUS CHEMICALS

REMA STITCHER

- Corrugated stitching tool for securing patches to tube and tires.
- REMA No. 30

Part No. 715413

REMA COLD VULCANIZING FLUID

- Rubber to rubber vulcanization.
- Use on: patches for tubes, tubeless tires, small radial repairs.
- 8 oz. brush top can.
- Non-flammable.
- REMA No. 203

Part No. 715415

REMA SPECIAL CEMENT

- Inside the tire bonding where cords are exposed.
- Use on: all radial repair patches.
- 8 oz. brush top can.
- Non-flammable.
- REMA No. BL-8

Part No. 715416

REMA LIQUID RUBBER BUFFER

- Use to remove silicones, talcs, etc. before buffing.
- Cleaning aid only, not a substitute for mechanical buffing.
- 16 oz. spray can.
- Non-flammable.
- REMA No. 70

Part No. 715417

REMA RIM & BEAD SEALER

- Seals minor leaks bead of tire & wheel rim.
- 1 quart brush top can.
- Non-flammable.
- REMA No. 960

Part No. 715418

CUP RASP

- Used with a tire buffer to prepare the surface of the inside of a tire before applying a repair patch.

PART NUMBER	QTY	DIA.	WIDTH	GRIT	MAX. RPM	ARBOR HOLE
715439	1	2-1/2	5/8	36	25,000	3/8"

RASPS

- Hole injury must be clean and roughened before inserting repair units.
- Rema quality.
- For non-steel belted tires
- Rema No.199

Part No. 715425

- 1/4'' Rasp for all passenger radial tires.
- Rema No.6003

Part No. 715426

PROFESSIONAL HEAVY DUTY TRUCK TIRE RASP

This all purpose tool is used for truck tire repair. Also preferred by electricians, plumbers, carpenters and other craftsman.

- Multiple uses: works on rubber, leather, wood, plastic & similar materials.
- Corrugated style with screw tip.
- 1/4'' diameter, 9'' blade length.
- Because of its round tooth design it can saw any radius or profile.

Part No. 715157

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TIRE REPAIR & TOOLS

TRUCK CLOSED-EYE NEEDLE

Part No. 715158

- 8" closed-eye needle for trucks.
- 11 inches overall length.

CARBIDE CUTTERS

- Diamond cut, long-life cutters are manufactured from high-quality, high carbide content steel.
- Ideal for preparing nail hole injuries.

PART NUMBER	DESCRIPTION
715438	1/8" Pointed Carbide Cutter - Rema CC3
715449*	1/4" Pointed Carbide Cutter - Rema CC6

*3" Length

HEAVY DUTY TRUCK STRING REPAIR KIT

- Contains 25 truck H.D tire strings.
- Probe rasp.
- T-handle with needle.
- Allen wrench.

Part No. 715155

TIRE REPAIR TOOL

- Professional quality steel tire tool for heavy duty use.
- Simplifies installation.

Part No. 715336

T-HANDLE PROBE TOOL

- Professional quality steel spiral tire tool for heavy duty use.
- Simplifies installation.

Part No. 715338

OPEN END NEEDLE

- Replacement open-end needle for tire tool #715336.

Part No. 715337

E-Z STRIP REPAIR NEEDLE

- Makes installation easy.
- Use with all strip repair material.
- Tool design may vary.

Part No. 715327

E-Z PROBE

- Cleans injury before repairing.
- Applies cement to injury.
- A must for steel-reinforced tires.

Part No. 715328

TIRE STRING REPAIR NEEDLE

- Closed-eye.

Part No. 715334

RUBBER TIRE/TUBE PATCHES

- Apply hot or cold.
- Self-vulcanizing.
- Light, flexible, super-dense rubber.
- Hairline feather edge.
- Split backing for easy application.
- Gray rubber fills hole & tire irregularities.
- Seals both tube and tubeless tires.
- Cures from "heat of the road".

PART NUMBER	QTY	SIZE
715223	40	1-1/2 dia. small round
715224	30	2-1/4 dia. med. round

RADIAL TIRE PATCHES

- Designed to flex with radial tires.
- Polyester cord reinforced.
- Apply hot or cold.
- Beveled edge.

PART NUMBER	QTY	PATCH SIZE	MAXIMUM INJURY SIZE
715206	10	small	1/8
715207	10	medium	1/4
715208	10	large	1/2

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TIRE REPAIR & TOOLS

SOSGRIP GUN PLUGS

- Special soft rubber compound.
- For use with all hand and air operated plug guns.
- Complete with plastic tip.

PART NUMBER	QTY	SIZE
715221	50	5/16
715222	30	7/16

E-Z PLUG GUN

- The fastest, easiest way to repair most punctures "on" or "off" the wheel.
- For best results, use our 5/16", 3/8" & 7/16" repair plugs.
- Complete with two nozzles.

Replacement nozzles only:
715203 - Small for 5/16" & 3/8" plugs
715204 - Large for 7/16" plugs

Part No. 715205

UNIVERSAL CEMENT

- Non-flammable Type C.
- Use with string, plug, foil back, universal, bias-ply, and radial repairs.

Part No. 715232
8 oz. can

RUB-R-KLEEN

- Cleaner & buffing solution.
- Removes dirt, silicone, soap, talc, oil, wax.
- Prepares repair surface for a positive bond.
- Use with all tire repairs.

Part No. 715330
1 qt. can

BEAD SEALER

- A new Bead Sealer formulated for radial and standard tubeless tires.
- A single application to tire bead makes a positive seal between rim and tire to prevent air seepage.

Part No. 715335
1 qt. brush-top can

YELLOW TIRE MARKING CRAYONS

Part No. 715235 6

- Best quality available.
- Marks tire failures for easy, quick identification.
- Packed 6 per box.

SWABS

Ideal for applying lubricant to tire beads & rims.

- Approx. length: 10-1/2".

Part No. 716657

SLIME™ Flat Tire Eliminator™

For Low Speed Tires
under 45mph / 75km
H Height (inches) x **W** Width (inches) x .12 = ounces required

For High Speed Tires
over 45mph / 75km
H Height (inches) x **W** Width (inches) x .06 = ounces required

Prevents flats in all types of pneumatic tires. Performs repeatedly. Lasts up to two years.

- Seals gaps up to 3/16" in size in any tube or tubeless tire.
- Environmentally safe, non-hazardous, non-flammable formula.
- Installs easily and works repeatedly.
- Does not freeze or dry up and remains active for up to 2 years.
- Save time and money. Eliminate job site repairs and downtime.
- Simply remove valve stem, install recommended amount and re-inflate tire.

5 GAL. PAIL AVAILABLE
Part No.
SB5G

Application Guide for 1 Tire

Tire Type	Amount
Passenger Car Wheelbarrow Trailer	8 oz. / 250ml
Light Utility 4 x 4 Truck	12 oz. / 375ml
Golf Cart Riding Mower	16 oz. / 500ml

PART NUMBER	SIZE
S1000	32 oz. bottle
SB1G	1 gal. jug w/pump
SB5G	5 gal. pail
SBAP	Pump for 5 gal.pail

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TIRE REPAIR & TOOLS

SLIPTAC BEAD LUBRICANT

A liquid bead lubricant for easier mounting of car, truck, bus and OTR tires.

- Non-combustible & Non-Toxic.
- Ready to use.
- Dries fast, leaves no residue.
- Prevents rim slippage & rust.

PART NUMBER	SIZE
715339G1	1 gallon

EUROPASTE

Extra slippery lubricant for mounting tires with stiff beads and to aid in bead seating.

- No water or mixing required.
- Use directly from the container.
- Wax type.
- Lubricant for alloy wheels, low profile & run flat tires.

PART NUMBER	SIZE
715340	8 lb. Bucket
715341	Applicator Brush

TIRE & TUBE COMPOUND

Excellent for packing beads.

- Concentrated formula.
- Economical & long lasting.
- For mounting & demounting all types of tires.
- Rust inhibitor added.
- Biodegradable.

PART NUMBER	SIZE	WHEN MIXED WITH WATER MAKES
715342	8 lb. Bucket	5 gallons
715344	25 lb. Bucket	16 gallons

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DISC BRAKE PARTS

- Complete line of most used parts.
- Reduce downtime and improve profitability.
- Brake parts & housing bolts are available in assortments or packed individually.

Bleeder Screws

Housing Bolt Kits

Brake Parts

DOMESTIC NUMERICAL LISTING — BUYER'S GUIDE

SHORT SLEEVE
pop. rating: AA

AMC, GM: D52, D121, D122, D139, D153, D154, D191, D202, D313, D392, D459

Part No. 21552 6

INNER BUSHING
pop. rating: AA

5/8" ID
27/32" OD

AMC, GM: D52, D121, D122, D138, D153, D162, D191, D313, D368, D369, D370, D392, D459

Part No. 21555 2

OUTER BUSHING
pop. rating: AA

3/8" ID
35/64" OD

AMC, GM: D52, D122, D138, D139, D153, D154, D191, D313, D392, D459

Part No. 21556 6

SHOE RETAINER CLIP
pop. rating: AA

AMC, GM: D52, D122

Part No. 21562 (50)

ANTI-RATTLE CLIP
pop. rating: AA

Color Code:
Silver

Ford: D50, D91, D92, D102, D129, D149, D184, D205, D249, D360, D375, D387, D607

Part No. 21571 (50)

SHOE RETAINER CLIP
pop. rating: AA

GM: D121, D138, D139, D159, D162, D183, D202, D289

Part No. 21572 (50)

SHOE CLIP
pop. rating: AA

Color Code:
Yellow

Ford Truck: D50, D91, D205, D249, D326, D360, D375, D387, D607

Part No. 21720 6

BUSHING
pop. rating: New

GM: D215. D289, D505, D506, D673

Part No. 319576 2

IMPORT NUMERICAL LISTING — BUYER'S GUIDE

SHOE RETAINING CLIP

Toyota: D42, D114, D137, D436

Part No. 319501 2

KEEPER CLIP

Universal Applications

Part No. 319510 25

RETAINER CLIP
(Universal)

Toyota, Universal: D48, D54, D115, D178

Part No. 319540 25

ANTI-RATTLE CLIP

Chev., GEO, Mazda, Toyota: D241, D242, D332, D356, D501

Part No. 319706 2

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DISC BRAKE PARTS, GUIDE BOLTS & PINS

IMPORT NUMERICAL LISTING — BUYER'S GUIDE

RUBBER PIN BOOT

Isuzu, Toyota: D240, D245, D263, D282, D301, D309, D527, D528, D615

Part No. 319708 2

RUBBER BUSHING

Ford, Honda, Hyundai, Infiniti, Nissan, Sterling, Suzuki, Volvo: D230, D231, D232, D247, D272, D276, D333, D404, D406, D422, D429, D430, D449, D451, D462, D464, D485, D497, D498, D499, D526, D540, D542, D556, D601

Part No. 319763 25

SPRING

Mazda: D188

Part No. 319843 2

H13

NUMERICAL LISTING — BUYER'S GUIDE

GUIDE BOLT

pop. rating: AA

Length: 3.970"
Thread: 7/16" x 20
Hex: 3/8" Allen

AMC, GM: D52, D122, D153, D154, D202, D392

Part No. 319363 2

GUIDE PIN

pop. rating: A

Length: 2.5"
Thread: M10 x 1.25
Hex: 10mm

Chrysler: D142, D219, D259

Part No. 319365 2

GUIDE BOLT

pop. rating: B

Length: 3.150"
Thread: 7/16" x 14
Hex: 5/16" Allen
OE - T45 Torx

Ford: D237, D310, D431

Part No. 319475 2

GUIDE BOLT

pop. rating: A

Length: 1.70"
Thread: M9 x 1.25
Hex: 7/32" Allen
OE - T40 Torx

Audi, BMW, Ford, Jaguar, Mercury, Saab, VW: D179, D257, D298, D322, D324, D394, D395, D396, D403, D417, D517, D548, D558

Part No. 319476 2

GUIDE BOLT

pop. rating: B

Length: 2.60"
Thread: M11 x 1.5
Hex: 8mm Allen
OE - T47 Torx

GM: D289

Part No. 319477 2

GUIDE PIN

pop. rating: AA

Length: 3.65"
Old Style
Steel Thread: .045

Ford: D50, D120, D205, D249, D326, D360, D375, D387, D450, D557, D607

Part No. 319484 2

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DISC BRAKE PARTS

BRAKE HOSE COPPER SEALING GASKETS

- For brake hoses leading to disc brake calipers.
- Soft annealed pure copper provides best sealing.

PART NUMBER	I.D. (INCHES)	I.D. *NEAREST FRACTION	O.D. (INCHES)	O.D. *NEAREST FRACTION	THICK	QTY
419192	.450	7/16	.800	13/16	.062	12
419012	.560	9/16	.810	13/16	.033	12
419013	.400	13/32	.625	5/8	.079	12
419014	.530	17/32	.810	13/16	.064	6
419015	.600	39/64	.810	13/16	.032	12
419016	.510	33/64	.710	23/32	.032	12
419017	.450	29/64	.626	5/8	.060	12
419018	.405	13/32	.667	21/32	.051	12

*Fractional sizes listed are not exact.

H13

FRACTIONAL BLEEDER SCREWS

VALUE PACK BOX OF 50 VOLUME USER DISCOUNT

PART NUMBER	QTY	SIZE	APPLICATION INTERCHANGE	
21536	12	1/4-28 x 59/64	AMC	309179, 3112184
			Bendix	48654
			Chrysler	2072658
			EIS	B955
			Ford	CODZ-2208-A
			GM	2381769, 5461419, 5462999
			IHC	867524-R1
			Jeep	67540
			Wagner	6446
21537	12	5/16-24 x 1-1/16	Bendix	323242, 618074
			Chrysler	2881619
			Ford	E3TZ-2208-A
			GM	5469230
			Wagner	57188
21538	12	5/16-24 x 1-3/16	Fits various cars and trucks. Visual identification is necessary.	
21539	12	3/8-24 x 1-11/64	AMC	48032, 3113347, 3202102
			Bendix	49206, 618406
			Chrysler	854039, 1666493, 1924376 2781019
			EIS	B70
			Ford	8M-2208
			GM	5455122
			IHC	48819-H, 71565-R1
			Jeep	639947
			Wagner	6858
21540	12	3/8-24 x 1-1/2	Bendix	302861
			EIS	B3805
			Ford	D2TZ-2208-B, C8AZ-2208-B
			GM	5456895, 5459294, 5459470
			Wagner	33512
21541	12	7/16-20 x 1-17/64	Fits various cars and trucks. Visual identification is necessary.	

METRIC BLEEDER SCREWS

VALUE PACK BOX OF 36 VOLUME USER DISCOUNT

PART NUMBER	QTY	SIZE	APPLICATION INTERCHANGE	
21631	6	Thread - M8 x 1.25 Length - 23.5mm	Bendix	2227429
			Fiat	4230797
			GM	18003151
21632	6	Thread - M10 x 1.5 Length - 27.5mm	Bendix	2238710
			GM	18004702
21633	6	Thread - M10 x 1.0 Length - 27.54mm	Bendix	2227427
			Ford	D1RY-2208-A, D8RZ-2208-A
			GM	14071826
			Jaguar	JLM 787
			Peugeot	4428.24
			VW	477-615-273
21634	6	Thread - M10 x 1.0 Length - 32.75mm	Datsun	41128-21010
			Dodge	MB366146
			Honda	45224-663-671, 45215-671-672
			Toyota	47547-12020, 47547-12030, 47547-12010
21635	6	Thread - M10 x 1.0 Length - 35.0mm	Bendix	2227426
			Datsun	41128-U3400
			Dodge	MA151623, MA169990
			GM	94020770
			Honda	45224-533-004
21636	6	Thread - M7 x 1.0 Length - 32.0mm	Audi	803-615-271, 431-615-271
			Bendix	2227425
			BMW	34111121206, 34111153197
			Chrysler	MB618298
			Daihatsu	47547-87204-000
			Ford	D77Z-2208-A
			Mazda	23333691
			Renault	8983500036
			Saab	8955411
			Toyota	47547-20010, 47547-12040
			VW	113-615-273
21637	6	Thread - M10 x 1.0 Length - 38.5mm	Dodge	MA140271
			Ford	E5R4-2208A
			Nissan	41128-22000
			Toyota	47547-20030
21638	6	Thread - M7 x 1.0 Length - 38.55mm	Subaru	6252-01031
			VW	113-141-707, 113-615-273A, 211-611-477A, 311-615-273

FRACTIONAL and METRIC BRAKE BLEEDER SCREW ASSORTMENTS

- Includes repair kits for 1/4", 5/16", 3/8" and 7/16" bleeder screws.
- Provides over 90% coverage for the most popular import cars, light trucks and late domestic models.
- Fast moving replacements for those hard-to-get, easy-to-lose, bleeder screws.

Part No. 501302
104 pieces • 16 items
12050 steel tray

- Fast moving replacements for those hard-to-get, easy-to-lose bleeder screws.

FRACTIONAL
Part No. 21535
30 pieces • 6 items
12032 plastic tray

METRIC
Part No. 21630
30 pieces • 8 items
12031 plastic tray

- Provides over 90% coverage for the most popular import cars, light trucks and late domestic models.

Our Exclusive

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DISC BRAKE & DRUM BRAKE HOLDDOWN PARTS

HOLDDOWN PIN

1-23/32"

I.D. Code: T
AMC
Audi
GM
IHC Truck
Jeep
Nissan /
Datsun
Toyota

Part No.
21523 (25)

"C" CLIP

Ford Motors

Functional equivalents.
Either one may be shipped.

Part No.
319487 (25)

HOLDDOWN CUP

GM
GM Truck
Jeep
Mitsubishi Truck
Volkswagen Sta. Wgn.
Volkswagen Truck

Part No.
21529 (25)

"C" CLIP

AMC
Chevrolet
Ford
Jeep

Part No.
21526 (100)

"E" CLIP

Chrysler Motors
GM

Part No.
52846 (50)

COTTER PIN

All makes - All models

Part No.
51726 (500)

"C" CLIP

Chrysler Corp.
GM

Part No.
319486 (6)

ADJ. HOLE COVER (rubber)

All Years
All makes - All models

Part No.
21524 (100)

BRAKE HOSE LOCK

All makes - All models

Part No.
419176 (50)

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WHEEL STUDS AND NUTS

- Designed and engineered for precise fit and long service
- Manufactured to rigid specifications from quality Hi-strength alloy steel
- Exact replacement for OEM studs and nuts
- Complete coverage for domestics and imports, cars and trucks
- Available in 16 different assortments, from starter size to shop size
- Up to date application book
- Small refill packages available

MASTER STUD AND NUT ASSORTMENTS

TOP COVERAGE FOR BOTH DOMESTIC AND IMPORT CARS AND TRUCKS

NOW INCLUDES MANY LATE MODEL APPLICATIONS.

STANDARD WHEEL NUTS

- 18 nuts for excellent coverage.
- For all domestic cars and trucks.
- For all import cars and trucks.

PARTS BOOKLET PB 50 SHIPPED WITH THIS ASSORTMENT

Part No. 501426
96 pieces • 18 items
12017 steel tray

611004	611053	611065	611076	611115
611016	611062	611066	611077	611122
611027	611063	611072	611109	
611052	611064	611075	611110	

Numbers in assortment

SPECIAL WHEEL NUTS

- 19 nuts for excellent coverage.
- Used on domestic, imports, cars and trucks.
- Stainless steel or chrome capped nuts eplace OE upgrades.

PARTS BOOKLET PB 50 SHIPPED WITH THIS ASSORTMENT

Part No. 501442
88 pieces • 19 items
12065 bin

611001	611070	611078	611091	611250
611002	611071	611084	611094	611251
611003	611073	611087	611113	611252
611004	611074	611089	611114	

Numbers in assortment

Part No. 501443
88 pieces • 19 items
12017 steel tray

611001	611070	611078	611091	611250
611002	611071	611084	611094	611251
611003	611073	611087	611113	611252
611004	611074	611089	611114	

Numbers in assortment

GM PRODUCT WHEEL STUDS & NUTS

- 14 studs and 10 nuts for superior coverage.
- Most cars and trucks made by GM.

PARTS BOOKLET PB 50 SHIPPED WITH THIS ASSORTMENT

Part No. 501420
114 pieces • 22 items
12017 steel tray

610026	610181	610254	611014	611062	611084
610138	610182	610262	611016	611063	611110
610159	610186	610284	611052	611066	
610179	610253	610328	611053	611070	

Numbers in assortment

POPULAR WHEEL STUDS

- Only the fastest moving studs.
- Basic coverage on Domestic and Imports, cars and trucks.
- Maximum coverage with minimum investment.

PARTS BOOKLET PB 50 SHIPPED WITH THIS ASSORTMENT

Part No. 610010
88 pieces • 22 items
12017 steel tray

610103	610186	610254	610285	610320	610378
610138	610235	610266	610306	610340	610414
610159	610244	610269	610312	610367	
610179	610253	610275	610318	610369	

Numbers in assortment

FORD PRODUCT WHEEL STUDS & NUTS

- 16 studs and 4 nuts for superior coverage.
- Most cars and trucks made by Ford.

PARTS BOOKLET PB 50 SHIPPED WITH THIS ASSORTMENT

Part No. 501421
100 pieces • 20 items
12071 steel tray

610109	610235	610302	610343	611016
610148	610252	610306	610344	611027
610176	610277	610340	610366	611062
610219	610290	610342	610365	611072

Numbers in assortment

POPULAR WHEEL NUTS

- 14 nuts for excellent coverage.
- Used on domestic, imports, cars and trucks.
- Stainless steel or chrome capped nuts replace OE upgrades.

PARTS BOOKLET PB 50 SHIPPED WITH THIS ASSORTMENT

Part No. 610011
88 pieces • 14 items
12050 steel tray

611104	611062	611065	611075	611250
611116	611063	611066	611087	611252
611027	611064	611072	611109	

Numbers in assortment

CHRY. PRODUCT WHEEL STUDS & NUTS

- 12 studs and 5 nuts for superior coverage.
- Most cars and trucks made by Chrysler.

PARTS BOOKLET PB 50 SHIPPED WITH THIS ASSORTMENT

Part No. 501422
90 pieces • 17 items
12071 steel tray

610103	610275	610312	611027	611078
610148	610276	610369	611063	
610186	610277	610370	611066	
610253	610285	610414	611077	

Numbers in assortment

FARM EQUIPMENT WHEEL STUDS & NUTS

- Use on a broad range of agricultural equipment.
- All popular sizes for maximum coverage.

Part No. 501444
80 pieces • 13 items
12050 steel tray

610905	610908	610911	611027	611905
610906	610909	610912	611053	
610907	610910	611016	611055	

Numbers in assortment

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WHEEL STUDS

Studs not listed here can be special ordered, 10 per box.

A = THREAD
B = LENGTH
C = KNURL
D = SHOULDER

SPECIFICATIONS

PART NUMBER	POP CODES	A	B IN./METRIC	C IN./METRIC	D IN./METRIC
610025	A	7/16-20	1-5/16	.564	3/8
610103	A	1/2-20	1-19/32	.673	9/16
610109	A	1/2-20	1-5/8	.625	15/32
610138	A	1/2-20	1-17/32	.535	5/16
610148	B	1/2-20	1-13/16	.622	3/4
610159	A	1/2-20	1-5/8	.620	19/32
610163	B	1/2-20	1-3/4	.545	7/16
610174	B	1/2-20	1-3/4	.668	9/16
610176	A	1/2-20	2	.560	23/32
610179	A	7/16-20	1-3/4	.565	7/8
610181	B	9/16-18	1-7/8	.623	21/32
610182	B	9/16-18	2-5/32	.623	1/2
610186	AA	7/16-20	1-1/2	.472	11/32
610219	A	1/2-20	3-17-32	.621	1-5/16
610234	B	1/2-20	1-5/8	.621	17/32
610235	AA	1/2-20	1-3/4	.620	11/32
610240	A	12mm-1.25	32.0mm	13.00mm	10mm
610244	AA	12mm-1.50	37.0mm	14.22mm	8mm
610252	B	1/2-20	1-15/16	.589	5/8
610253	A	12mm-1.50	38.5mm	14.10mm	11.5mm
610254	AA	12mm-1.50	41.5mm	12.73mm	8mm
610262	A	12mm-1.50	37.5mm	14.35mm	7mm
610263	B	12mm-1.25	32.5mm	12.83mm	7mm
610266	A	12mm-1.50	40.0mm	14.20mm	8mm
610269	AA	12mm-1.50	36.0mm	12.22mm	9mm
610275	A	12mm-1.50	41.5mm	14.30mm	6.5mm
610276	B	12mm-1.50	35.5mm	14.30mm	6.5mm
610277	B	1/2-20	2-1/4	.625	15/16
610284	B	9/16-18	1-31/32	.620	17/32
610285	AA	12mm-1.50	41.0mm	14.94mm	13.5mm
610287	A	1/2-20	1-29/32	.667	25/32
610290	B	1/2-20	2-3/16	.619	19/32
610302	B	12mm-1.50	42.0mm	14.45mm	11.5mm
610303	A	9/16-18	3-9/32	.677	15/16

SPECIFICATIONS

PART NUMBER	POP CODES	A	B IN./METRIC	C IN./METRIC	D IN./METRIC
610306	B	12mm-1.50	48.0mm	13.46mm	14mm
610312	A	12mm-1.50	44.5mm	14.17mm	12.5mm
610317	B	12mm-1.50	29mm	17mm	Ball Seat
610318	A	14mm-1.50	31mm	17mm	Ball Seat
610320	A	12mm-1.25	41.5mm	12.83mm	14mm
610322	B	12mm-1.25	30.5mm	14.27mm	6mm
610327	A	14mm-1.50	45.5mm	16.00mm	8.5mm
610328	A	14mm-1.50	43.0mm	15.88mm	6mm
610340	A	12mm-1.50	42.0mm	13.08mm	12.5mm
610342	B	12mm-1.50	46.5mm	13.59mm	14mm
610343	B	12mm-1.50	46.5mm	15.55mm	7.5mm
610344	B	12mm-1.50	46.0mm	13.59mm	11mm
610345	B	1/2-20	1-7/8	.570	19/32
610360	A	12mm-1.50	42mm	12.37mm	11mm
610362	A	12mm-1.50	34.0mm	12.30mm	9mm
610365	A	12mm-1.50	51.5mm	13.41mm	13.5mm
610366(2)	B	1/2-20	2	.585	3/4
610367	A	12mm-1.50	29.5mm	- -	- -
610368	B	1/2-20	1-31/32	.615	17/32
610369	A	12mm-1.50	46.0mm	15.00mm	18mm
610370	B	12mm-1.50	44.0mm	15.80mm	16.5mm
610375	B	12mm-1.25	41.5mm	14.25mm	14mm
610378	A	12mm-1.25	42mm	14.35mm	13.5mm
610384	B	12mm-1.50	44.5mm	15.87mm	13mm
610410	B	12mm-1.50	46.0mm	13.08mm	13mm
610414	A	12mm-1.50	45.0mm	14.38mm	10.5mm
610475	BN	1/2-20	1.915	.615	.571
610498	A	12mm-1.50	19.65mm	11.7mm	- -
610502	BN	M14-1.50	50.0mm	16.02mm	18mm
610507	A	12mm-1.50	44.8mm	13.0mm	14.33mm
610510	A	9/16-18	2.472	.670	.76
610518	A	12mm-1.50	43.0mm	12.95mm	15.75mm
610527	A	14mm-1.50	45.5mm	16.5mm	10.85mm

ILLUSTRATIONS ARE 50% OF ACTUAL SIZE ALL STUDS ARE PACKED 12 PER BOX ☐ BOXED CODE INDICATES POPULAR HEAD MARKINGS

Part No. 610025

DN

1990-36 GM Products

Part No. 610103

TT

VV

1999-62 Chrysler Corp.

Part No. 610109

WW

WF

1997-49 Ford Motor Corp.
1999-56 Jeep

Part No. 610138

AB

2002-64 GM Products

Part No. 610148

DE

DF

1997-73 Chrysler
1986-61 Ford Motor Corp.

Part No. 610159

ES

2002-71 GM Products

Part No. 610163

BT

1975-73 Ford Motor Corp.
1975-73 Mercury

Part No. 610174

2004-72 Chry. Products
2007-98 Dodge Durango/Dakota

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WHEEL STUDS

ILLUSTRATIONS ARE 50% OF ACTUAL SIZE ALL STUDS ARE PACKED 12 PER BOX ☐ BOXED CODE INDICATES POPULAR HEAD MARKINGS

Part No. 610176

FG

1997-74 Ford Motor Corp.

Part No. 610179

EY

1991-71 GM Truck
1991-74 Jeep

Part No. 610181

DR

1999-92 AM General
1999-71 Chev/GMC Truck

Part No. 610182

EC

1999-71 Chevy/
GMC Truck

Part No. 610186

V

J

1991-51 Chevy/GM Truck
1991-74 Jeep

Part No. 610219

BR

CF

DU

1970 Buick
1996-65 Ford
Motor Corp.
1970-67 Oldsmobile

Part No. 610234

FL

2006-93 Jeep
1976-75 AMC
1999-73 Chrysler Corp.

Part No. 610235

FR

1997-75 Ford Motor Corp.

Part No. 610240

D.2.0.

2003-97 Infiniti
2005-70 Nissan

Part No. 610244

T.2.0.

2005-90 Lexus
2009-68 Toyota

Part No. 610252

FS

1993-76 Ford Motor Corp.

Part No. 610253

M.1.0.

2009-82 Chrysler Corp.
2009-78 Dodge
1987-76 GM

Part No. 610254

M.1.1.

2002-91 Ford
2009-79 GM
1995-94 Honda
2008-91 Isuzu
2008-05 Saab
2009-91 Saturn

Part No. 610262

CU.1

1999-96 Acura
1982-76 GM Truck
2000-81 Isuzu Truck
2002-94 Honda

Part No. 610263

D.S.0.

1986-84 Nissan

Part No. 610266

T.6.0.

2009-85 Chevy
2009-89 GEO
2009-90 Lexus
2009-73 Toyota

Part No. 610269

H.3.0.

2008-86 Acura
2008 -80 Honda

Part No. 610275

C.1.2.

1997-71 Chry./Dod./Ply.
2001-94 Hyundai
1999-83 Mitsubishi

Part No. 610276

M.1.8.

1985-80 Dodge
1993-82 Dodge Truck
2001-85 Hyundai
2000-83 Mitsubishi
1985-79 Plymouth

Part No. 610277

BP

1993-76 Dodge Truck
1993-80 Ford Truck

Part No. 610284

1996-81 Chevy/GMC Truck

Part No. 610285

Clip Head

M.7.8.

2005-82 Chrysler
2005-81 Dodge &
Dodge Truck
2005-93 Mazda
2001-84 Plymouth

Part No. 610287

2005-02 Jeep
2001-94 Dodge Truck

Part No. 610290

2009-05 Ford
2005-73 Ford Truck

Part No. 610302

FM1

1994-83 Ford
1989-88 Lincoln
1994-83 Mercury

Part No. 610303

SEE H14-5 FOR
ACTUAL SIZE.

2009-87 Chrysler E-Series
2005-85 Ford Truck

Part No. 610306

FM3

1995-90 Ford
1991-90 Lincoln
1994-90 Mercury

Part No. 610312

2009-89 Dodge
Truck
2009-96 Lexus
2009-83 Mitsubishi
2009-79 Toyota

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WHEEL STUDS

ILLUSTRATIONS ARE 50% OF ACTUAL SIZE ALL STUDS ARE PACKED 12 PER BOX ☐ BOXED CODE INDICATES POPULAR HEAD MARKINGS

Part No. 610317

1987-80 Audi
2002-74 Volkswagen

Part No. 610318

2006-78 Audi
1982-77 Porsche
2008-92 Volkswagen

Part No. 610320

D.3.0.
D.1.0.

2008-90 Infiniti
2008-72 Nissan

Part No. 610322

1994-72 Subaru

Part No. 610327

2000-88 Chevy/
GMC Truck

Part No. 610328

2002-88 Chevy/
GMC Truck

Part No. 610340

2009-89 Ford
2007-94 Hyundai
2005-95 Kia
2008-88 Mazda
2009-91 Mercury

Part No. 610342

Clip Head

1990-89 Ford Motor Corp.

Part No. 610343

1997-89 Ford
Motor Corp.
1997-89 Mercury

Part No. 610344

2002-90 Ford
Motor
Corp.
1992-90 Lincoln
2002-90 Mercury

Part No. 610345

1999-94 Dodge
Truck
2009-83 Ford/
Ford Truck
2008-91 Mazda
2001-74 Mercury

Part No. 610360

2005-87 Acura
2008-92 Honda
1999-96 Isuzu

Part No. 610362

1998-92 Acura
1997-90 Honda

Part No. 610365

1998-83 Ford
Motor Corp.

Part No. 610366

Clip Head

1997-91 Ford
Motor Corp.

Part No. 610367

2006-91 BMW
2001-97 Cadillac
2006-03 Mini Cooper
1992-91 Pontiac
2008-94 Saab

Part No. 610368

2002-91 Mazda
2009-92 Ford Motor Corp.

Part No. 610369

2005-93 Dodge Truck
2008-93 Chrysler Corp.

Part No. 610370

1992-91 Chrysler Corp.

Part No. 610375

1992-89 Nissan (F)
1992-91 (R)

Part No. 610378

2008-90 Nissan
2008-90 Infiniti

Part No. 610384

2001-93 Chrysler
2001-93 Dodge/Eagle

Part No. 610410

2008-94 Hyundai
2001-89 Mazda

Part No. 610414

2008-95 Chry.
2008-85 Dodge
2006-89 Hyundai
2008-85 Mitsubishi

Part No. 610475

2003 Jeep Wrangler, Grand
Cherokee, Liberty

Part No. 610498

498

2007-86 Mercedes Benz
(Various Models)

Part No. 610502

502

2009-05 Chrysler
2009-05 Dodge

Part No. 610507

2008-04 Hyundai
2008-06 Kia
2008-04 Mazda

H14

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WHEEL STUDS

ILLUSTRATIONS ARE 50% OF ACTUAL SIZE ALL STUDS ARE PACKED 12 PER BOX ☐ BOXED CODE INDICATES POPULAR HEAD MARKINGS

Part No. 610510

510

2008-07 Chrysler, V8
2009-04 Dodge Durango
2009-04 Dodge Dakota
2008-06 Mitsubishi Truck

Part No. 610518

2008-03 Kia

Part No. 610527

2011-05 Acura
2011-05 Honda

OVERSIZED WHEEL STUD

2009-87 Chrysler E-Series
2005-85 Ford Truck

Part No. 610303

FARM EQUIPMENT WHEEL STUDS

Part No. 610905

Dia.: 1/2”
O/L: 1-3/8”
Thrd. Lgth.: 7/8”
Head Angle: 90°
Hex Dia.: 13/16”

Part No. 610906

Dia.: 1/2”
O/L: 1-1/2”
Thrd. Lgth.: 1”
Head Angle: 90°
Hex Dia.: 3/4”

Part No. 610907

Dia.: 1/2”
O/L: 2-1/4”
Thrd. Lgth.: 1-1/2”
Head Angle: 90°
Hex Dia.: 3/4”

Part No. 610908

Dia.: 9/16”
O/L: 1-5/8”
Thrd. Lgth.: 1-1/8”
Head Angle: 90°
Hex Dia.: 7/8”

Part No. 610909

Dia.: 9/16”
O/L: 2-1/4”
Thrd. Lgth.: 1-5/8”
Head Angle: 90°
Hex Dia.: 7/8”

Part No. 610910

Dia.: 9/16”
O/L: 2-3/4”
Thrd. Lgth.: 2”
Head Angle: 90°
Hex Dia.: 7/8”

Part No. 610911

Dia.: 5/8”
O/L: 2-3/8”
Thrd. Lgth.: 1-3/4”
Head Angle: 90°
Hex Dia.: 15/16”

Part No. 610912

Dia.: 5/8”
O/L: 3-5/8”
Thrd. Lgth.: 3”
Head Angle: 90°
Hex Dia.: 15/16”

ILLUSTRATIONS ARE 50% OF ACTUAL SIZE ALL STUDS ARE PACKED 5 PER BOX

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STANDARD WHEEL NUTS

L = LEFT HAND THREAD

Part No. 611014 (24)

Thread Size: 7/16”-20
Hex Size: 3/4”
Height: 9/16”
Type: Cone

Part No. 611016 (24)

Thread Size: 1/2”-20
Hex Size: 13/16”
Height: 5/8”
Type: Cone

Part No. 611026 (24)

Thread Size: 1/2”-20L
Hex Size: 3/4”
Height: 9/16”
Type: Cone

Part No. 611027 (24)

Thread Size: 1/2”-20
Hex Size: 3/4”
Height: 9/16”
Type: Cone

Part No. 611031 (24)

Thread Size: 1/2”-20L
Hex Size: 13/16”
Height: 39/64”
Type: Cone

Part No. 611052 (24)

Thread Size: 9/16”-18
Hex Size: 7/8”
Height: 3/4”
Type: Cone

Part No. 611053 (24)

Thread Size: 9/16”-18
Hex Size: 1”
Height: 21/32”
Type: Cone

Part No. 611905 (5)

Thread Size: 5/8”-18
Hex Size: 15/16”
Height: 23/32”
Type: Cone

Part No. 611055 (12)

Thread Size: 5/8”-18
Hex Size: 1”
Height: 21/32”
Type: Cone

Part No. 611062 (24)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4”)
Height: 14mm
Type: Cone

Part No. 611063 (24)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4”)
Height: 23mm
Type: P-Nut

Part No. 611064 (24)

Thread Size: 12mm-1.25
Hex Size: 19mm (3/4”)
Height: 16mm
Type: Chrome Cone

Part No. 611065 (24)

Thread Size: 12mm-1.25
Hex Size: 21mm (13/16”)
Height: 16mm
Type: P-Nut

Part No. 611066 (24)

Thread Size: 12mm-1.50
Hex Size: 21mm(13/16”)
Height: 16mm
Type: Cone

Part No. 611072 (24)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16”)
Height: 18mm
Type: Cone

Part No. 611093 (24)

Thread Size: 1/2”-20
Hex Size: 13/16”
Height: 59/64”
Type: P-Nut

Part No. 611096 (12)

Thread Size: 10mm-1.25
Hex Size: 17mm
Height: 21mm
Type: Chrome Cone

Part No. 611110 (24)

Thread Size: 14mm-1.50
Hex Size: 22mm (7/8”)
Height: 20.5mm
Type: Cone

Part No. 611115 (12)

Thread Size: 14mm-1.50
Hex Size: 22mm (7/8”)
Height: 28.5mm
Type: Cone

Part No. 611257 (12)

Thread Size: 14mm-1.50
Hex Size: 21mm (13/16”)
Height: 24mm
Type: Bulge 60° Zinc

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SPECIAL WHEEL NUTS

***BULGE NUTS HAVE 60° CONE SEAT. FOR OE ALLOY WHEELS / +OE FOR HONDA, SPECIAL SEAT**

Part No. 611001 (12)

Thread Size: 7/16''-20
Hex Size: 13/16''
Height: 1-3/8''
Type: Chrome Bulge Nut*

Part No. 611002 (12)

Thread Size: 1/2''-20
Hex Size: 13/16''
Height: 1-3/8''
Type: Chrome Bulge Nut*

Part No. 611003 (12)

Thread Size: 12mm-1.25
Hex Size: 21mm (13/16'')
Height: 35mm
Type: Chrome Bulge Nut*

Part No. 611004 (12)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16'')
Height: 35mm
Type: Chrome Bulge Nut*

Part No. 611070 (12)

Thread Size: 7/16''-20
Hex Size: 3/4''
Height: 1-1/8''
Type: SS Capped Cone

Part No. 611071 (12)

Thread Size: 1/2''-20
Hex Size: 13/16''
Height: 1-15/32''
Type: SS Capped Cone

Part No. 611073 (12)

Thread Size: 1/2''-20
Hex Size: 13/16''
Height: 1-1/8''
Type: SS Capped Cone

Part No. 611074 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4'')
Height: 31mm
Type: SS Capped P-Nut

Part No. 611075 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4'')
Height: 24.5mm
Type: Chrome Ball Faced+

Part No. 611076 (12)

Thread Size: 12mm-1.25
Hex Size: 19mm (3/4'')
Height: 25mm
Type: Chrome Cone

Part No. 611077 (12)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16'')
Height: 27.5mm
Type: Chrome Cone

Part No. 611078 (12)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16'')
Height: 33mm
Type: Chrome Cone

Part No. 611084 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4'')
Height: 36mm
Type: SS Capped Cone

Part No. 611087 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4'')
Height: 29.5mm
Type: SS Capped P-Nut

Part No. 611089 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4'')
Height: 32mm
Type: SS Capped P-Nut

Part No. 611091 (12)

Thread Size: 1/2''-20
Hex Size: 3/4''
Height: 1-1/16''
Type: SS Capped P-Nut

Part No. 611094 (12)

Thread Size: 1/2''-20
Hex Size: 3/4''
Height: 1-39/64''
Type: SS Capped Cone

Part No. 611098 (12)

Thread Size: 1/2''-20
Hex Size: 13/16''
Height: 1-3/8''
Type: Chrome

Part No. 611099 (12)

Thread Size: 12mm-1.25
Hex Size: 21mm (13/16'')
Height: 35mm
Type: Chrome

Part No. 611100 (12)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16'')
Height: 35mm
Type: Chrome

Part No. 611109 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4'')
Height: 27.9mm
Type: External Threads

Part No. 611112 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4'')
Height: 20.5mm
Type: Chrome

Part No. 611113 (12)

Thread Size: 12mm-1.25
Hex Size: 21mm (13/16'')
Height: 16mm
Type: Chrome Cone

Part No. 611114 (12)

Thread Size: 12mm-1.25
Hex Size: 21mm (13/16'')
Height: 29mm
Type: Chrome Acorn Nut

Part No. 611117 (12)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16'')
Height: 37mm
Type: Chrome Special

Part No. 611119 (12)

Thread Size: 12mm-1.25
Hex Size: 21mm (13/16'')
Height: 32mm
Type: Chrome Mag

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SPECIAL WHEEL NUTS

***BULGE NUTS HAVE 60° CONE SEAT. FOR OE ALLOY WHEELS / +OE FOR HONDA, SPECIAL SEAT**

Part No. 611122 (12)

Thread Size: 1/2”-20
Hex Size: 3/4”
Height: 1-21/64”
Type: SS P-Nut

Part No. 611127 (12)

Thread Size: 9/16”-18
Hex Size: 7/8”
Height: 1-1/16”
Type: Black Oxide

Part No. 611133 (12)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16”)
Height: 30mm
Type: Chrome Acorn Nut

Part No. 611136 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4”)
Height: 37mm
Type: SS P-Nut

Part No. 611137 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4”)
Height: 40mm
Type: Chrome Dometop Mag

Part No. 611138 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4”)
Height: 35mm
Type: Chrome Dometop Mag

Part No. 611141 (12)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16”)
Height: 27.5mm
Type: Chrome Cone

Part No. 611144 (12)

Thread Size: 12mm-1.5
Hex Size: 19mm
Height: 18.5mm
Type: Chrome

Part No. 611150 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4”)
Height: 31mm
Type: External Threads

611151 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4”)
Height: 34mm
Type: External Threads

Part No. 611163 (12)

Thread Size: 1/2”-20
Hex Size: 3/4”
Height: 29/32”
Type: Cone

Part No. 611167 (12)

Thread Size: 12mm-1.50
Hex Size: 21mm (13/16”)
Height: 47mm
Type: Chrome

Part No. 611171 (12)

Thread Size: 1/2”-20
Hex Size: 3/4”
Height: 1-1/4”
Type: Zinc

Part No. 611172 (12)

Thread Size: 12mm - 1.75
Hex Size: 19mm (3/4”)
Height: 22.5mm
Type: Zinc

Part No. 611181 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm
Height: 43mm
Type: Chrome*

Part No. 611196 (12)

Thread Size: 14mm-2.0
Hex Size: 21mm (13/16”)
Height: 22.6mm
Type: Black Oil Quench

Part No. 611199 (12)

Thread Size: 1/2”-20
Hex Size: 19mm (3/4”)
Height: 1-1/4”
Type: Yellow Zinc*

Part No. 611201 (12)

Thread Size: 12mm-1.50
Hex Size: 19mm (3/4”)
Height: 29.5mm
Type: Chrome

Part No. 611204 (12)

Thread Size: 9/16”-18
Hex Size: 13/16”
Height: 1-1/2”
Type: SS 60° Seat

Part No. 611208 (12)

Thread Size: 12mm - 1.50
Hex Size: 21mm (13/16”)
Height: 38.35mm
Type: Chrome 60° Seat

Part No. 611209 (12)

Thread Size: 12mm - 1.50
Hex Size: 21mm (13/16”)
Height: 30.25mm
Type: Chrome 60° Seat

Part No. 611250 (12)

Thread Size: 12mm - 1.50
Hex Size: 3/4”
Height: 1-13/32”
Type: Chrome Bulge Nut*

Part No. 611251 (12)

Thread Size: 7/16” - 20
Hex Size: 3/4”
Height: 1-13/32”
Type: Chrome Bulge Nut*

Part No. 611252 (12)

Thread Size: 1/2” - 20
Hex Size: 3/4”
Height: 1-13/32”
Type: Chrome Bulge Nut*

Part No. 611258 (12)

Thread Size: 14mm - 1.50
Hex Size: 21mm (13/16”)
Height: 36.8mm
Type: Stainless Steel 60° Seat

Part No. 611259 (12)

Thread Size: 14mm - 1.50
Hex Size: 21mm (13/16”)
Height: 43.5mm
Type: Chrome 60° Seat

Part No. 611278 (12)

Thread Size: 14mm - 1.50
Hex Size: 22mm
Height: 34.6mm
Type: Chrome Mag Nut

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SPECIAL WHEEL NUTS and WHEEL NUT COVERS

PART NUMBER	THREAD SIZE	HEX SIZE	HEIGHT	APPLICATION	POP CODES
611001	7/16"-20	13/16"	1-3/8"	Universal/Special	A
611002	1/2"-20	13/16"	1-3/8"	Universal/Special	A
611003	12mm-1.25	21mm (13/16")	35mm	Universal/Special	A
611004	12mm-1.50	21mm (13/16")	35mm	Universal/Special	A
611014	7/16"-20	3/4"	9/16"	Chrysler/GM/Standard	AA
611016	1/2"-20	13/16"	5/8"	Ford/GM/Standard	AA
611026	1/2"-20L	3/4"	9/16"	Chrysler/Standard	B
611027	1/2"-20	3/4"	9/16"	Universal/Standard	AA
611031	1/2"-20L	13/16"	39/64"	Jeep/Standard	B
611052	9/16"-18	7/8"	3/4"	GMC Truck/Standard	AA
611053	9/16"-18	1"	21/32"	GMC Truck/Standard	AA
611055	5/8"-18	1"	21/32"	Chevy/GMC & Dodge Trucks/Standard	A
611062	12mm-1.50	19mm (3/4")	14mm	Universal/Standard	AA
611063	12mm-1.50	19mm (3/4")	23mm	Chrysler/Isuzu/Stnd.	AA
611064	12mm-1.25	19mm (3/4")	16mm	Import/Standard	AA
611065	12mm-1.25	21mm (13/16")	16mm	Nissan/Standard	AA
611066	12mm-1.50	21mm (13/16")	16mm	Import/Standard	AA
611070	7/16"-20	3/4"	1-1/8"	GM/Special	A
611071	1/2"-20	13/16"	1-15/32"	Ford/Special	A
611072	12mm-1.50	21mm (13/16")	18mm	Ford/Special	AA
611073	1/2"-20	13/16"	1-1/8"	GM/Special	A
611074	12mm-1.50	19mm (3/4")	31mm	Chrysler/Special	A
611075	12mm-1.50	19mm (3/4")	24.5mm	Honda/Special	AA
611076	12mm-1.25	19mm (3/4")	25mm	Honda/Special	B
611077	12mm-1.50	21mm (13/16")	27.5mm	Universal/Special	A
611078	12mm-1.50	21mm (13/16")	33mm	Chry. Prod./Dodge & Ford Truck/Mazda/ Miits./Special	A
611084	12mm-1.50	19mm (3/4")	36mm	GM/Special	A
611087	12mm-1.50	19mm (3/4")	29.5mm	GM/Special	A
611089	12mm-1.50	19mm (3/4")	32mm	GM/Special	A
611091	1/2"-20	3/4"	1-1/16"	Chrysler/Special	A
611093	1/2"-20	13/16"	59/64"	Ford/Standard	A
611094	1/2"-20	3/4"	1-39/64"	Ford/Special	AA
611096	10mm-1.25	17mm	21mm	Chev./Geo/Pontiac/ Suzuki/Standard	A
611098	1/2"-20	13/16"	1-3/8"	Universal/Special	A
611099	12mm-1.25	13/16" (21mm)	35mm	Universal/Special	A
611100	12mm-1.50	13/16" (21mm)	35mm	Ford/Mazda/Mercury	A

PART NUMBER	THREAD SIZE	HEX SIZE	HEIGHT	APPLICATION	POP CODES
611109	12mm-1.50	19mm (3/4")	27.9mm	GM/Special	AA
611110	14mm-1.50	7/8" (22mm)	20.5mm	GM Truck/Standard	AA
611112	12mm-1.5	19mm	20.5	Chev./GMC Truck	A
611113	12mm-1.25	21mm (13/16")	16mm	Import/Special	B
611114	12mm-1.25	21mm (13/16")	29mm	Import/Special	B
611115	14mm-1.50	22mm	28.5mm	Chevy/GMC Truck/ Standard	A
611117	12mm-1.50	21mm (13/16")	37mm	Chry./Imp./Spec.	A
611119	12mm-1.25	21mm (13/16")	32mm	Import/Special	A
611122	1/2"-20	3/4"	1-21/64"	AMC/Chry. Prod./ Dodge Truck/Jeep/ Volvo/Special	A
611127	9/16"-18	7/8"	1-1/16"	Ford Truck	A
611133	12mm-1.50	21mm (13/16")	30mm	Import/Special	A
611136	12mm-1.50	19mm (3/4")	37mm	Ford/Special	A
611137	12mm-1.50	19mm (3/4")	40mm	Import/Special	A
611138	12mm-1.50	19mm (3/4")	35mm	Import/Special	A
611141	12mm-1.50	21mm (13/16")	27.5mm	Chry./Imp./Spec.	A
611144	12mm-1.50	19mm	- -	Acura, Honda	A
611150	12mm-1.50	19mm (3/4")	31mm	GM/Special	A
611151	12mm-1.50	19mm (3/4")	34mm	GM/Special	A
611163	1/2"-20	3/4"	29/32"	Chry./Ford/Spec.	A
611167	12mm-1.5	13/16" (21mm)	47mm	Lexus/Toyota	A
611171	1/2"-20	3/4"	- -	Ford Truck/Mercury	A
611172	12mm-1.75	19mm	22.5mm	Ford Truck/Lincoln	A
611181	12mm-1.5	19mm	43mm	Chrysler/Dodge	A
611196	14mm-2.0	21mm	22.6	Ford Truck	A
611199	1/2"-20	19mm (3/4")	1-1/4"	Ford/Lincoln/Mercury	A
611201	12mm-1.50	19mm	29.5mm	Acura/Honda	A
611204	9/16"-18	13/16"	1-1/2"	Dodge Truck	A
611208	12mm-1.50	13/16" (21mm)	38.25mm	Hyundai	A
611209	12mm-1.50	13/16" (21mm)	30.25mm	Kia	A
611250	12mm-1.50	3/4"	1-13/32"	Special Acorn Seat	A
611251	7/16"-20	3/4"	1-13/32"	Special Acorn Seat	A
611252	1/2"-20	3/4"	1-13/32"	Special Acorn Seat	A
611257	14mm-1.5	13/16" (21mm)	24mm	Chrysler/Dodge	A
611258	14mm-1.5	13/16" (21mm)	36.8mm	Chrysler/Dodge	A
611259	14mm-1.5	13/16" (21mm)	43.5mm	Chrysler/Dodge	A
611278	14mm-1.50	22mm	34.6mm	Acura/Honda	A
611905	5/8"-18	15/16"	23/32"	Farm Equipment	A

H14

PLASTIC CAPS FOR WHEEL NUTS

- **Protect wheel nuts from freeze-up due to rust, rain and road dirt.**
- **Match OEM look.**

Part No. 611019 12

Black

Part No. 611020 12

Grey

Part No. 611607 12

PART NUMBER	CAP COLOR	FITS	WHEEL NUT SIZE	HEIGHT	WHEEL NUT PART NO.	QTY
611019	Black	GM Prod.	12mm x 1.50 w/ ext. threads	1-1/8	**611109**	12
611020	Grey	GM Prod.	12mm x 1.50 w/ ext. threads	1-1/8	**611109**	12

PART NUMBER	CAP COLOR	FITS	WHEEL NUT SIZE	HEIGHT	WHEEL NUT PART NO.	QTY
611607	Black	Chevy/ GMC Truck	27mm-2.0 x 23 w/ ext. threads	39.5mm	**611110, 611115**	12

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TRUCK WHEEL STUDS & NUTS

INNER & OUTER CAP NUTS

STANDARD WHEELS

TYPE 1

COLD FORMED STEEL LUSTERPLATED - Conforms to DOT-FMVSS Specs.

PART NUMBER	INNER THREAD SIZE	OUTER THREAD SIZE	HEX	HEIGHT	THREAD STYLE	TYPE	QTY
611034	1-1/8-16	-	1-1/2	7/8	RH	1	12
611035	1-1/8-16	-	1-1/2	7/8	LH	1	12

CAST SPOKE WHEELS AND NUTS

- **Made of heat treated steel.**
- **Lusterplated to resist corrosion.**
- **Exact OEM quality replacement.**

PART NUMBER	SIZE THREADS	(A) OVERALL LENGTH	(B) DIM	(C) DIM	THREAD STYLE	QTY
610145	5/8-11	2-5/8	1-3/4	7/8	RH	12
610146	3/4-10	2-13/16	1		RH	12

Flat Face

PART NUMBER	SIZE THREADS	HEX	FACE STYLE	QTY
611048	5/8-11	1-1/16	Flat	12
611049	3/4-10	1-1/4	Flat	12

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HYDRAULIC BRAKE LINES & FITTINGS

SAFETY CERTIFIED "FUSION-BRAZED" STEEL BRAKE LINES

The safety story.

1. **Wrap around steel tubing meets all car factory and SAE specifications. Continuous copper-fused double steel walls provide exceptional pressure resistance and safety, yet is easily bent to desired sha**
2. **Extra heavy terne-plate (tin lead) coating provides maximum possible corrosion resistance.**
3. **Only Class "A" electronically tested steel tubing is used in OUR safety certified brake lines.**
4. **"Fusion-Brazed" for seamless leak-proof construction and great strength.**
5. **All brake lines have the longer inverted flare nut on one end to insure leak-proof connection in today's dual braking master cylinders. Standard nut on other end.**
6. **SAE spec. double-flared for positive leak-proof sealing.**
7. **Used on cars, trucks, buses, tractors, trailers, farm and construction equipment for brake lines, engine tubes, oil lines, gas and filter lines.**

Every Brake Line is unconditionally certified to meet or surpass the following specifications:

SAE Standard Tubing spec. J527	Ford ESF-MIA-80-DA (M3431)	ASTM 254 Type 1
SAE Standard Flare spec. J533	General Motors 123M	Caterpillar 1E395
U.S. Army specs. MIL-T-3520 Type III	GM Truck & Coach 33838R	General Electric B30E23-83
Chrysler MSI806	International Harvester A-45 Gr. 1 & 3	Wagner Electric L975B

HYDRAULIC BRAKE FITTING MEASUREMENT

- **Adapters can be used to adapt standard steel brake lines to different size ports used in dual master cylinders, proportioning valves and junction blocks.**
- **The tube O.D. is the outside diameter of the steel brake line .**
- **Thread size can be determined by measuring with a U.S. or metric screw pitch gauge.**

Standard inverted flare tube and thread size

Tube Size	1/8	3/16	1/4	5/16	3/8	7/16
Thread Size	5/16-28	3/8-24	7/16-24	1/2-20	5/8-18	11/16-18

METRIC HYDRAULIC BRAKE FITTINGS

How to measure metric threads:

Metric threads are measured and specified by the thread diameter in millimeters and the pitch in millimeters per thread. If dimension "A" is 22mm and dimension "B" (crest to crest distance) is 1.5mm, then the metric thread size is M22 x 1.5mm.

STEEL BRAKE LINES (Fractional and Metric)

INCHES LENGTH	3/16 SIZE	1/4 SIZE	5/16 SIZE	3/8 SIZE	VIOLET* JAPANESE Double Flare	BLUE* EUROPEAN Bubble Flare	OLIVE• GM 6MM Bubble Flare
8	---	---	---	419161	419301	419311	419325
12	419101	419107	419113	419119	419302	419312	419326
20	419102	419108	419114	419120	419303	419313	419327
30	419103	419109	419115	419121	419304	419314	419328
40	419104	419110	419116	419122	419305	419315	419329
51	419105	419111	419117	419162	419306	419316	419330
60	419106	419112	419118	419163	419307	419317	419331
UNION	508120	508121	508122	508123	419367	419366	419368

*** Color Coded Fittings For Easy Identification.**

MUST ORDER A MINIMUM OF 6 ASSORTED BRAKE LINES PER ORDER

BRAKE LINE ASSORTMENTS AVAILABLE

DOMESTIC	DOMESTIC	JAPANESE	EUROPEAN	GM 6mm
Car & Light Truck	Car, Truck & Bus	Car, Light Truck	Car, Light Truck	Car, Light Truck
36 LINES	***54 LINES***	***28 LINES***	***28 LINES***	***26 LINES***
3 lines each	3 lines each	4 lines each	4 lines each	4 lines each
3/16" & 1/4"	3/16", 1/4" & 5/16"	Sizes from 8" to 60"	Sizes from 8" to 60"	Sizes from 8" to 51"
Sizes from 12" to 60"	Sizes from 12" to 60"			2 lines 60"
Part No. 419025	**Part No. 419026**	**Part No. 419027**	**Part No. 419028**	**Part No. 419029**
12011 rack incl.	**12011 rack incl.**	**12015 rack incl.**	**12015 rack incl.**	**12165 rack incl.**

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HYDRAULIC BRAKE LINES & FITTINGS

BRASS BRAKE LINE UNIONS

– DOMESTIC –

PART NUMBER	WEATHERHEAD NUMBER	LINE TO LINE DESCRIPTION	THREAD SIZE	FLARE TYPE	QTY
508120	302 x 3	3/16 to 3/16	3/8-24	Standard	25
508121	302 x 4	1/4 to 1/4	7/16-24	Standard	25
508122	302 x 5	5/16 to 5/16	1/2-20	Standard	25
508123	302 x 6	3/8 to 3/8	5/8-18	Standard	25

– IMPORT –

PART NUMBER	WEATHERHEAD NUMBER	LINE TO LINE DESCRIPTION	TUBE SIZE	THREAD SIZE	FLARE TYPE	QTY
419365	1594	British to British	3/16	3/8-24	Bubble	6
419366	1595A	European to European	3/16	10-1.0mm	Bubble	6
419367	7934A	Japanese to Japanese	3/16	10-1.0mm	Standard	6
419368	--	GM Metric	6mm	12-1.0mm	Bubble	2

STEEL TUBING

Ideal for refrigeration, oil lines, vacuum lines, air conditioning, hydraulic lines and hundreds of other uses.

PART NUMBER	SIZE O.D.
21425	3/16
21426	1/4
21427	5/16
21428	3/8
21429	6mm

- **Economical.**
- **Convenient.**
- **Meets O.E.M. specifications.**
- **Copper fused.**
- **Double wall.**
- **Seamless.**
- **Cut to size, bend and shape as desired.**
- **Easy to bend, flare, weld, or solder.**

Approved for brake lines when double-flared to SAE specifications.

25 FT. COILS INDIVIDUALLY PACKAGED.

SEE SECTION D10 FOR FLARING TOOLS.

PREVENTX PVF COATED HYDRAULIC BRAKE LINES

PREVENTX lines have a PVF coating which repels nicks and dings, while also offering superior corrosion protection – 30 times more protection than ordinary steel lines. Standard coil wrapped armored lines can actually trap salt, soil, and gravel between the coil and the line – speeding the corrosion process and creating potentially dangerous situations. All ***PREVENTX*** lines are double- walled (not single-walled like some /" and 3/8" lines on the market) offering more application uses – such as brake lines on some heavy-duty trucks. ***PREVENTX*** lines are not only the most superior technical line on the market – they also look great too! Great for performance and show vehicles!

- ***PREVENTX*** lines comply with GM123M-ASV & S.A.E. J527B
- Wall thickness is 0.028" (0.70 mm)
- Copper brazed double-wall steel construction
- PVF coated to resist corrosion & abrasion
- Lines are easily bent without kinking

INCHES LENGTH	3/16 SIZE	1/4 SIZE	5/16 SIZE	3/8 SIZE	BLUE* JAPANESE Inverted Flare	OLIVE* EUROPEAN Bubble Flare	VIOLET* BRITISH Bubble Flare	OLIVE* 6mm Bubble Flare
8	**419401**	**419409**	**419417**	**419425**	**419433**	**419447**	**419440**	**419470**
12	**419402**	**419410**	**419418**	**419426**	**419434**	**419448**	**419441**	**419471**
20	**419403**	**419411**	**419419**	**419427**	**419435**	**419449**	**419442**	**419472**
30	**419404**	**419412**	**419420**	**419428**	**419436**	**419450**	**419443**	**419473**
40	**419405**	**419413**	**419421**	**419429**	**419437**	**419451**	**419444**	**419474**
51	**419406**	**419414**	**419422**	**419430**	**419438**	**419452**	**419445**	**419475**
60	**419407**	**419415**	**419423**	**419431**	**419439**	**419453**	**419446**	**419476**
72	**419408**	**419416**	**419424**	**419432**	**---**	**---**	**---**	**419477**

*** Color Coded Fittings For Easy Identification.**

PVF COATED BRAKE LINE ASSORTMENTS AVAILABLE

DOMESTIC
Car & Light Truck
36 LINES
3 lines each
3/16" & 1/4"
Sizes from 12" to 60"
Part No. 419480
12011 rack incl.

DOMESTIC
Car, Truck & Bus
54 LINES
3 lines each
3/16", 1/4" & 5/16"
Sizes from 12" to 60"
Part No. 419481
12011 rack incl.

JAPANESE
Car, Light Truck
28 LINES
4 lines each
Sizes from 8" to 60"
Part No. 419482
12015 rack incl.

EUROPEAN
Car, Light Truck
28 LINES
4 lines each
Sizes from 8" to 60"
Part No. 419483
12015 rack incl.

6mm
Car, Light Truck
26 LINES
4 lines each
Sizes from 8" to 51"
2 lines 60"
Part No. 419484
12165 rack incl.

PVF COATED STEEL TUBING

Ideal for automotive, farm and industrial; for use with hydraulic fluids, water, oil and air.

PART NUMBER	SIZE O.D.
419466	3/16
419467	1/4
419468	5/16
419469	3/8

- **Economical.**
- **Convenient.**
- **Meets O.E.M. specifications.**
- **Copper fused.**
- **Double wall.**
- **Seamless.**
- **Cut to size, bend & shape as desired.**
- **Easy to bend, flare, weld, or solder.**

25 FT. COILS INDIVIDUALLY PACKAGED.

SEE SECTION D10 FOR FLARING TOOLS.

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HYDRAULIC BRAKE LINES & FITTINGS

E-Z BRAKE LINE REPLACEMENT KITS

- Use to replace brake, transmission, fuel, power steering lines and more!
- Makes routing and flaring simple.
- Lifetime warranty - Tubing will not rust!
- Easy o use, safe and cost effective.
- Cuts labor time by more than 50%.
- The kits accomodate 90% of all applications.
- They include flare nuts, unions & adapters.

U.S.D.O.T. approved, 3000 p.s.i. rating

Brake tubing will not rust or corrode and is backed by a LIFETIME WARRANTY!

Part No. 324008

Brake Line Replacement Kit

3/16" kit includes 112 pieces & 25' brake tubing

Part No. 324009

Brake Line Replacement Kit

1/4" kit includes 41 pieces & 25' brake tubing

3/16" and 1/4" tubing are available in 25, 50 and 100' coils! (5/16" and 3/8" tubing come in 25' coils only)

No bending tools required!

Brake tubing can be easily bent by hand.

PART NUMBER	DESCRIPTION	QTY
SURBR-EZ100	3/16" Brake Line Tubing	25' roll
SURBR-EZ101	3/16" Brake Line Tubing	50' roll
SURBR-EZ102	3/16" Brake Line Tubing	100' roll

PART NUMBER	DESCRIPTION	QTY
SURBR-EZ200	1/4" Brake Line Tubing	25' roll
SURBR-EZ201	1/4" Brake Line Tubing	50' roll
SURBR-EZ202	1/4" Brake Line Tubing	100' roll

PART NUMBER	DESCRIPTION	QTY
324051	5/16" Brake Line Tubing	25' roll
324038	3/8" Brake Line Tubing	25' roll

BENDING PLIERS

The Most Convenient Tubing Benders Available! Fits 3/16" and 1/4" Tubing.

- High quality pliers with a big head for easier bending.
- Forged steel with heavy duty rubber grips are designed with the "proper radius" so kinking the tubing is almost impossible.
- The shaped jaws bend the tubing without distortion.
- Fit new hard lines or change the bends of existing lines.
- Align, bend & adjust 3/16" & 1/4" brake & fuel lines with a twist of the wrist.

Allows a tight 90 degree bend on the tubing right at the nut.

Larger jaw design for the perfect bend *without* kinking.

Part No. 324013

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HYDRAULIC BRAKE LINE FITTINGS

METRIC & IMPERIAL BUBBLE FLARE TUBE NUTS

For making your own brake lines.

- **Color coded for easy identification.**
- **No need to use adapters.**

510390 510391 510392 510393 510394 510395 510396 510397 510398

510399 507711 507712 507713 507714 507715 507716 507717 507718

PART NUMBER	QTY	THR. DIA.	THR. PITCH	COLOR	TUBE SIZE	DESCRIPTION
510390	10	10 x 1.0mm		Olive	3/16	Bubble Flare, European/Domestic
510391	10	11 x 1.5mm		Orange/Grey	3/16	Bubble Flare, GM, Ford
510392	10	12 x 1.0mm		Blue	3/16	Bubble Flare, GM, Ford
510393	10	13 x 1.5mm		Green	3/16	Bubble Flare, GM, Ford
510394	10	10 x 1.0mm		Blue/Silver	3/16	Inverted Flare Japanese
510395	5	10 x 1.0mm		Gold	3/16	12mm Hex, Long Inverted Flare
510396	5	12 x 1.0mm		Olive	1/4	13mm Hex, 1/4 Tube Long Inverted Flare
510397	5	10 x 1.0mm		Violet	3/16	11mm Hex, VW & Audi Long Inverted Flare
510398	5	10 x 1.0mm		Blue	3/16	11mm Hex, GM Long Inverted Flare, Toyota
510399	5	10 x 1.0mm		Gold	3/16	Bubble Flare, Ford Long
507711	5	12 x 1.25mm		Olive	3/16	Bubble Flare
507712	5	12 x 1.25mm		Gold	1/4	Bubble Flare
507713	5	12 x 1.75mm		Green	1/4	Bubble Flare
507714	5	12 x 1.75mm		Yellow	1/4	Bubble Flare
507715	5	12 x 1.0mm		Yellow	3/16	Bubble Flare
507716	5	12 x 1.25mm		Black	1/4	Bubble Flare
507717	5	10 x 1.0mm		Grey	3/16	Bubble Flare
507718	5	3/8 x 24 TPI		Lt. Violet	3/16	Bubble Flare

STANDARD FLARE INVERT STEEL TUBE NUTS

PART NUMBER	QTY	TUBE SIZE	THREAD DIAMETER	T.P.I.	WEATHERHEAD NUMBER
508375	25	3/16	3/8	24	105 x 3
508376	25	1/4	7/16	24	105 x 4
508377	25	5/16	1/2	20	105 x 5
507724	10	3/8	5/8	18	105 x 6
507725	10	1/2	3/4	18	105 x 8
507726	10	1/4	7/16, 9/16 Hex	24	--
507727*	10	3/16	3/8, 7/16 Hex	24	--
507728	10	3/16	3/8, 9/16 Hex	24	--
507729	10	7/16	11/16	18	--

***Violet**

LONG STEEL TUBE NUTS

PART NUMBER	QTY	TUBE SIZE	THREAD DIAMETER	T.P.I.	WEATHERHEAD NUMBER
508378	25	3/16	3/8	24	7896 x 3
508379	25	1/4	7/16	24	7896 x 4
507730	25	3/8	5/8	18	--

METRIC 6mm BUBBLE FLARE TUBE NUTS

PART NUMBER	QTY	TUBE SIZE	THREAD DIAMETER	THREAD PITCH
510380	5	6mm	12mm	1.0 olive
510381	5	6mm	12mm	1.5 olive
510382	5	6mm	14mm	1.5 black

OVERSIZED STEEL TUBE NUTS

507731 507732 507733 507734 507735 507736 507737

PART NUMBER	QTY	TUBE SIZE	THREAD DIAMETER	T.P.I.
507731	10	3/16	7/16	24 (red)
507732	10	3/16	1/2	20 (green)
507733	10	3/16	9/16	18 (olive/gold)
507734	10	1/4	9/16	18 (blue)
507735	10	1/4	1/2	20 (gold)
507736	10	3/16	1/2	20 (black)
507737	10	1/4	9/16	18 bubble flare (yellow)

METRIC INVERT FLARE TUBE NUTS

PART NUMBER	QTY	TUBE SIZE	THREAD DIAMETER	THREAD PITCH
507746	10	3/16	10mm	1.0 Japanese (gold) 12mm hex long
507747	10	1/4	12mm	1.0 Ford & Imports
507748	10	3/16	10mm	1.0 (yellow)

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HYDRAULIC BRAKE LINE FITTINGS

METRIC BRAKE LINE ADAPTERS INVERT & BUBBLE

PART NUMBER	QTY	TUBE SIZE (FEMALE)	DESCRIPTION
507738	5	3/16	10mm x 1.0 male thread bubble
507739	5	3/16	10mm x 1.0 male thread invert
507740	1	3/16	10mm x 1.25 male thread bubble
507741	1	3/16	13mm x 1.5 male thread bubble
507742	1	3/16	12mm x 1.0 male thread bubble
507743	1	3/16	11mm x 1.5 male thread bubble

HI-FLOW / HEAVY WALL BRAKE LINE UNIONS

PART NUMBER	QTY	TUBE SIZE	THREAD DIAMETER	T.P.I.
507749	5	3/16	3/8	24
507750	5	1/4	7/16	24
507751	5	5/16	1/2	20
507752	5	3/8	5/8	18
507753*	2	3/16 / 1/4	3/8 / 7/16	24

REDUCER BRAKE LINE UNION

PART NUMBER	QTY	TUBE SIZE	THREAD DIAMETER	T.P.I.
507753*	2	3/16 / 1/4	3/8 / 7/16	24

***Same as number above, two functions.**

COPPER FLEX LINE GASKETS

PART NUMBER	QTY	O.D.	I.D.	THKNS.
507777	5	.625	.450	.079
507778	5	.687	.450	.038
507779	5	.8125	.500	.032
507780	5	.625	.390	.063
507781	5	.8125	.438	.063
507782	5	.625	.406	.101
507783	5	.688	.391	.050
507784	5	.554	.409	.032

HOSE INLET FLEX LINE BOLTS

GM
M10 x 1.5 x 32.65mm

Part No. 507761 5

GM
7/16" - 20 x 1.275"

Part No. 507764 5

Chrysler
7/16" - 20 x 1.345"

Part No. 507762 5

Ford
M10 x 1.0 x 1.15"

Part No. 507765 5

Chrysler
M11 x 1.25 x 1.184"

Part No. 507763 5

Ford
3/8" - 24 x 1.26"

Part No. 507766 5

Part No. 507767
12 pieces • 6 items
12036 plastic tray

507761	**507763**	**507765**
507762	**507764**	**507766**

Numbers in assortment

STEEL & NYLON TUBING RETAINER CLIPS

– BRAKE –

1 slot 1/4"
brake line clip

Part No. 507768 (5)

2 slot 3/16"
brake line clip

Part No. 507770 (5)

1 slot 3/16"
brake line clip

Part No. 507769 (5)

2 slot 3/16"
brake line clip

Part No. 507771 (5)

Part No. 507776
38 pieces • 8 items
12043 plastic tray

507768	**507770**	**507772**	**507774**
507769	**507771**	**507773**	**507775**

Numbers in assortment

– FUEL / TRANS / BRAKE –

5 slot
2 x 3/16" - 2 x 5/16" - 3/8"

Part No. 507772 (5)

4 slot
1/4" - 2 x 5/16" - 3/8"

Part No. 507773 (5)

4 slot
1/4" - 2 x 5/16" - 3/8"

Part No. 507774 (5)

4 slot
2 x 1/4" - 2 x 5/16"

Part No. 507775 (5)

H15

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HYDRAULIC BRAKE LINE FITTINGS

METRIC STEEL TUBE NUT ASSORTMENT

Part No. 508902
84 pieces • 12 items
12038 plastic tray

510380	510391	510394	510397
510381	510392	510395	510398
510390	510393	510396	510399

Numbers in assortment

TUBE NUT MASTER ASSORTMENT

- Includes both standard & metric sizes.

Part No. 501735
137 pieces • 18 items
12071 steel tray

508375	508378	510381	510391	510394	510397
508376	508379	510382	510392	510395	510398
508377	510380	510390	510393	510396	510399

Numbers in assortment

BRAKE ADAPTERS ASSORTMENT

- Total domestic and import coverage.
- A must for any full service brake shop.

Part No. 501340
56 pieces • 28 items
12062 steel tray

419125	419179	419198	419367	419374	418382	508121
419126	419180	419199	419368	419376	419383	508122
419127	419181	419365	419370	419379	419384	508123
419128	419197	419366	419373	418381	508120	508832

Numbers in assortment

H15

SAE 45° METRIC ADAPTERS

Adapts standard domestic 3/16 brake line to Japanese vehicles.

PART NUMBER	INVERTED MALE THREAD	INVERTED FEMALE THREAD	WTHERHD NUMBER	QTY
419197	3/16	3/16	1443	6
	M10 x 1.0	3/8-24		
	Std. Flare	Std. Flare		

Adapts standard domestic 3/16 brake line to European vehicles (Except British).

PART NUMBER	INVERTED MALE THREAD	INVERTED FEMALE THREAD	WTHERHD NUMBER	QTY
419198	3/16	3/16	1442	6
	M10 x 1.0	3/8-24		
	Bubble Flare	Std.Flare		

Adapts metric 3/16 OD tube M10 x 1.0 thread, standard SAE 45° Flare to master cylinders, junction blocks, proportioning and compensating valves in Japanese vehicles.

PART NUMBER	MALE THREAD	TUBE O.D./ FEMALE THREAD	WTHERHD NUMBER	QTY
419382	3/16	3/16	7935	6
	M11 x 1.5	M10 x 1.0		
419383	3/16	3/16	7936	6
	M12 x 1.0	M10 x 1.0		
419384	3/16	3/16	7937	6
	M13 x 1.5	M10 x 1.0		

DUAL MASTER CYLINDER ADAPTERS

Adapts standard brake line with standard nuts to master cylinders, junction blocks and proportioning valves. Eliminates special OE brake lines.

NOTES: MPT (MALE PIPE THREAD)
1. Seals on hex face.
2. Male end has SAE 37° Bubble Flare Seat, Female end has SAE 45° Standard Flare Seat.
3. 5/16 tube connection with 1/2-20 thread.

PART NUMBER	INVERTED MALE THREAD	INVERTED FEMALE THREAD	WEATHERHEAD NUMBER	QTY
419180	3/16 (9/16-18)	3/16	7911	6
419370	3/16 (9/16-18)	3/16 (1/2-20)	7913	6
419179	3/16 (9/16-20)	3/16	7910	6
419181 (1)	3/16	1/4	7828	6
419125	1/4	3/16	7818	6
508832	1/4 MPT	1/4	202x4x4	6
419372 (1)	1/4 (7/16-20)	1/4	7732	6
419373	1/4 (9/16-18)	1/4	7908	6
419374 (3)	1/4	5/16	7917	6
419375 (1)	5/16	3/16	7817	6

Adapts standard domestic 3/16 brake line to British vehic les.

PART NUMBER	INVERTED MALE THREAD	INVERTED FEMALE THREAD	WTHERHD NUMBER	QTY
419199	3/16	3/16	1441	6
	3/8-24	3/8-24		
	Bubble Flare	Std. Flare		

PART NUMBER	INVERTED MALE THREAD	INVERTED FEMALE THREAD	WEATHERHEAD NUMBER	QTY
419126 (2)	5/16	3/16	7897	6
419381	5/16	3/16	7909	6
419376	5/16	3/16 (9/16-18)	7912	6
419377 (1)	5/16	1/4	7727	6
419127	5/16	1/4	7829	6
419378 (1)	5/16	5/16	1074	6
419379	5/16	3/8	7915	6
419380	3/8 MPT	5/16	7771	6
419128	3/8	5/16	7916	6

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TRANSMISSION SERVICE PARTS

BRASS INVERTED FLARE NUTS

GENERAL MOTORS & FORD

Part No. 508103 (25)
5/16" Tube

Part No. 508104 (15)
3/8" Tube

LINKAGE PINS

GM
Part No. 328220 (25

Chrysler
Part No. 328221 (25)

PLASTIC VACUUM TEES

3/16"
Part No. 11513 (25)

1/4"
Part No. 11514 (25)

COOLER LINE CONNECTOR

MUST BE REPLACED WHENEVER REMOVED
INCLUDES PLASTIC INSERT & SEALER

Ford ATX
Replaces: E3AZ-7D273A

Ford AOT (Fiod)
Replaces: E6VY-7D273A

Part No. 328224 2

CHRYSLER BRASS FITTINGS

PART NUMBER	TUBE SIZE	DESCRIPTION	QTY
508172	5/16	Flared Nut	25
508183	5/16 x 1/8 MPT	Male Connector	25

FORD GEAR SHIFT INSULATORS

- **C4 & C6 Transmissions 1988-70**
- **Used to electrically insulate transmission components.**
- **Prevents vibration & noise between shift & console.**

Large White Plastic
Fits: Ford, Lincoln, Mercury
Replaces: Ford - D5AZ-7341A

Part No. 328202 (25)

TRANSMISSION "E" CLIPS

3/16" GM
Part No.
52843 (50)

1/4" Ford
Part No.
52845 (50)

FORD THROTTLE VALVE & PASSING GEAR ADJUSTMENT ROD GROMMET

(CARBURETOR SIDE)

When the grommet breaks or pops off,
the transmission will stop shifting.

1988-80 Ford AOT (Fiod)
Replaces: Ford - E0AZ-7F330A

1988-81 Ford ATX

Part No. 328209 (6)

COMPRESSION UNIONS

PART NUMBER	SIZE (INCHES)	QTY
508140	5/16 x 5/16	10
508141	3/8 x 3/8	5

VALUE PACK
BOX OF 100
VOLUME USER DISCOUNT

TORQUE CONVERTER BOLTS

PART NUMBER	APPLICATION	SIZE (INCHES)	QTY
328210	Chrys./AMC TF-6, TF-8	5/16 - 24 x 7/16	25
328213*	GM all Metric	M10 -1.50 x M15 Flange Head	25

***With locking compound**

TORQUE CONVERTER NUTS

PART NUMBER	APPLICATION	SIZE (INCHES)	QTY
328214	Ford C4, C6, FMX	3/8 - 24 Flanged Nut	25
328215	GM TH200, TH350 (Fits 328211 bolt)	3/8 - 24 Locking Nut	25
328258	Ford E6DZ-6441-A	10 - 1.00mm Flanged Lock Nut	25

H17

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TRANSMISSION SERVICE PARTS

OIL & TRANSMISSION PAN BOLT ASSORTMENTS

STANDARD and OVERSIZE PAN BOLTS
Part No. 328230
66 pieces • 9 items
12038 plastic tray

328231	328233	328250	328252	328255
328232	328234	328251	328254	

Numbers in assortment

- Replacement for those stripped and Easy-to-Lose but Hard-to-Find oil pan & transmission pan bolts.
- Plus 5/16" self-tapping style for crossed or corroded threads.
- Four popular sizes fit over 75% of all transmissions including Toyota.
- Self-locking hex washer head.

PAN BOLTS

PART NUMBER	SIZE (INCHES)	HEX SIZE	QTY
328231	1/4 x 1/2	3/8	25
328232	5/16 x 5/8	1/2	25

PART NUMBER	SIZE DIA	LENGTH	PITCH	HEX SIZE	QTY
328255	6mm	14mm	1.0	9	25
328250*	6mm	14mm	1.0	10	25
328233	8mm	14mm	1.25	13	25

* Specific for Toyota, Loose Washer

SELF-TAPPING PAN BOLT

Ideal for crossed or corroded threads. Hardened steel - Cuts its own threads.

- 5/16" x 3/4".
- 1/2" hex size.

Part No. 328234 (100)

OVERSIZED PAN BOLTS THREAD CUTTING

PART NUMBER	SIZE (INCHES)	HEX SIZE	QTY
328254	5/16 x 5/8	1/2	25

PART NUMBER	SIZE DIA	LENGTH	PITCH	HEX SIZE	QTY
328251	6mm	14mm	1.0	8	25
328252	8mm	14mm	1.25	10	25

GM COOLER LINE RETAINING CLIPS w/O-RINGS

Part No. 328257
6 pairs per box

- Used with the new push-in type fittings.
- 2002-1996 Chev. Trucks & SU's.
- GM recommended replacing these clips every time the cooler line is disconnected.
- OEM #24205103.

TRANSMISSION and OIL LINE QUICK DISCONNECTORS

FORD

- 1999-82 Various Models.
- 3/8" tube steel quick connector.

Part No. 508889 3

GM TRUCKS

- 2000-96 GM Trucks S/T, C/K (RWD).
- 3/8" tube x 1/4" NPS.

Part No. 508891 3

GM TRUCKS

- 2000-96 GM Trucks G, C/K (RWD).
- 1/2" tube x 3/8" NPTF.

Part No. 508890 3

FORD

- 1999-82 Various Models.
- 5/16" tube steel quick connector.

Part No. 508894 3

TRANSMISSION COOLER HOSE

Meets SAE J189 and all OEM requirements.

- Hypalon tube and cover.
- Withstands fluid temperatures up to 275°F.
- Resistant to fuel, oil, ozone and heat aging.
- Minimum burst 175 PSI.

PART NUMBER	SIZE (INCHES)	FEET PER ROLL
328235	5/16 I.D.	25
328236	3/8 I.D.	25

C/V JOINT UNIVERSAL BOOT KITS

- Replacement for both inner and outer boot.

Just two part numbers provide 100% coverage for all domestic & import applications. Meets or exceeds OEM quality requirements. Reduces inventory.

Complete kit includes: Universal Boot, OE type grease and universal Stainless Steel clamps.

Part No. 727101
Fits 90% of all applications. Joints ranging from 2.5" to 3.6" dia.

Part No. 727102
Fits pickups, suv's, utility trucks, & other oversized vehicles. Joints ranging from 3.6" to 4.3" dia.

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FWD C/V BOOT KITS / CLAMPS / ACCESSORIES

UNIVERSAL C/V BOOT CLAMPS

2 sizes fit all applications.

Part No.
727546 (10)
19" Clamp

Part No.
727545 (10)
11" Clamp

- **Preassembled free end clamps are the practical choice for C/V boots.**
- **Use Bandit® Tool 114358 for installation.**
- **Made of 301 stainless steel band and buckle.**
- **Top quality rolled edge.**
- **Economical -11'' and 19'' sizes fit all applications.**

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AUTOMATIC TRANSMISSION FILTER KITS

- Replace filter to prevent damage from clogged filter and for efficient transmission operation. OE recommended replacement at 15,000-35,000 miles, depending on driving conditions.

COMPLETE WITH ALL NECESSARY GASKETS, SEALS AND INSTRUCTIONS.

- Skin packed to keep gaskets flat. Gaskets fit on pan quickly and easily.
- Special label with applications and interchanges to help installer.

PREMIUM QUALITY SYNTHETIC PAN GASKETS OFFER THESE ADVANTAGES:

- Improved sealing ability.
- Not damaged by overtorquing like cork/neoprene.
- Indefinite shelf life – will not shrink or tear.
- Eliminates troublesome comebacks.

YOUR CHOICE OF TWO TYPES OF PREMIUM GASKETS:

FARPAK®

- Holds its shape for easier installation.
- Best sealing product available.
- Most technologically advanced gasket material.
- Use "428…" number series.

or

FELPROPRENE®

- Rubber-like neoprene.
- Never creases.
- Undersize bolt holes to speed installation.
- Use "528…" number series.

CHRYSLER

A-404, 413, 415, 470, 670

2-1/4" Deep Pan

2004-82 Chrysler Products (FWD)

OEM: 4269649
FRAM: FT1065
Purolator: P1175
S/C: 86106

14 BOLT PAN

Farpak Filter Kit
428433

AW4

2001-88 Jeep Cherokee Comanche, Wrangler
1993 Jeep Grand Cherokee
1987 AMC Jeep

OEM: 83504032
FRAM: FT1102
Purolator: P1206
S/C: 86110

19 BOLT PAN

Farpak Filter Kit
428464

A-604 "Ultra-Drive" 4 spd

2011-89 Chrysler V6 (New Yorker, Dynasty, Caravan, Cirrus, LeBaron, Stratus, Town & Country, Spirit, Acclaim, Voyager) FWD
1999-95 Eagle Talon, Mitsubishi Eclipse 2.0L (DOHC)

OEM: 4504048
FRAM: FT1122
Purolator: P1198
S/C: 86108

14 BOLT PAN

Farpak Filter Kit
428454

A606/42LE

2004-93 Chrysler Concorde, Dodge Intrepid, Eagle Vision

OEM: 4567070, 4626449, 4796730
FRAM: FT1141
S/C: 86111
Purolator: P1220

13 BOLT PAN

Farpak Filter Kit
428485

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TRANS FILTER KITS - CHRYSLER & FORD

CHRYSLER

42, 44, 46, 47RE

2003-97 Dodge Dakota, Durango
2006-97 Dodge Ram P/U, Van
2004-97 Jeep Grand Cherokee

OEM: 52118789
Fram: FT1206
Purolator: P1262
S/C: 86112

Farpak Filter Kit
428410

45RFE (4WD)

2011-99 Jeep Grand Cherokee 8 cyl. 4.7L (4WD)
2008-00 Dodge Truck & Chrysler Most 6 & 8 cyl. w/4WD

OEM: 4799507
FRAM: FT1223
Mighty: T321
S/C: 86113

Farpak Filter Kit
428627

TORQUEFLITE 6 & 8

1 Hole, Large Filter

2003-88 Jeep/Eagle
1988-73 AMC, AMC Jeep
1995-73 Chrysler Products All 904 & 727 w/ Front Pump
2003-68 Dodge Trucks

OEM: 3515996, 8123042
FRAM: FT1039, (1031/32)
Purolator: P232, P233
S/C: 86101

Farpak Filter Kit
428417

45RFE (2WD)

2011-00 Most Dodge & Chrysler Trucks/Jeep

OEM: 4800029AA
Mighty: T322
S/C: 86114

Farpak Filter Kit
428628

FORD

A4LD

2WD

1988-87 Ford Mustang, T-Bird
1988-86 Ford Truck

OEM: E6TZ-7A098B
FRAM: FT1088
Purolator: P1182
S/C: 84131

Farpak Filter Kit
428451

AOT (AOD)

4WD Deep Pan

1996-85 Bronco
1995-83 Ford Trucks 6 & 8 cyl.

OEM: E5TZ-7A098A, E5TZ-7A098C, E6SZ-7A098C, E57Z-7A098A
FRAM: FT1086
Purolator: P1184
S/C: 84115

With transmission filter installed.

Farpak Filter Kit
428457

AOT (AOD) FIOD

w/4 Speed Automatic Overdrive

1996-80 Ford Trucks (2WD)
1992-80 Ford, Lincoln, Mercury Products

OEM: E1AZ-7A098A, E0AZ-7A098A
FRAM: FT1056
Purolator: P255
S/C: 84114

Filter installed

Farpak Filter Kit
428428

AODE

4 Speed Electric

1995 Lincoln Continental 4.6L
1999-94 Ford Thunderbird, Mercury Cougar 4.6L
1999-92 Ford Crown Victoria, Mercury Grand Marquis 4.6L
1995-93 Lincoln Mark VIII, Town Car 4.6L

OEM: E2VY-7A098A
FRAM: FT1144
Purolator: P1217
S/C: 84137

Farpak Filter Kit
428487

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FORD - *TRANS FILTER KITS*

FORD

ATX

3 Speed Front Wheel Drive Trans Axle

1995-81 Ford and Mercury 4 cyl. Escort, etc.

OEM: E1EZ-7A098A, E9FZ-7A098A
FRAM: FT1058
Purolator: P1150
S/C: 84116

Filter installed

Farpak Filter Kit
428429

E40D

2WD

2008-89 Ford Trucks

OEM: E9TZ-7A098A
FRAM: FT1131
Purolator: P1213
S/C: 84135

Farpak Filter Kit
428458

AXOD - FWD

1996-86 Taurus, Sable
1994-88 Lincoln Continental
1996-95 Windstar

OEM: E6DZ-7A098A, E6SP-7G186AB
FRAM: FT1073A
Purolator: P1193
S/C: 84133

Farpak Filter Kit
428446

E40D

4WD

2009-89 Ford Trucks

OEM: E9TZ-7A098B
FRAM: FT1130
Purolator: P1214
S/C: 84136

Farpak Filter Kit
428459

AXOD - E

1996-86 Ford Products

OEM: F4DZ-7A098A
S/C: 84140

*May retrofit 428446, bracket must be used for retrofit.

Farpak Filter Kit
428483

AX4S

w/Green Grommet

2005 Ford Freestar
2003-96 Ford Windstar
1996 Ford Taurus, Mercury Sable

OEM: F6DZ-7A098A
FRAM: FT1160
Purolator: P1242

Farpak Filter Kit
428492

C-6

Aluminum Case w/Fine Spline

1998-75 Ford Trucks (2WD)
1979-75 Ford, Lincoln, Mercury Products

OEM: D5AZ-7A098BA/AA
FRAM: FT1037
Purolator: P235
S/C: 84106

With filter installed.

Farpak Filter Kit
428419

5R44E/4R44E/A4LD-E

2WD

2011-95 Ford Explorer, Ranger

OEM: F5TZ-7A098A
Motorcraft: FT-102
Purolator: P-1236
S/C: 84141

*May retrofit 428451 & 428455, bolt must be used on retrofit.

Farpak Filter Kit
428493

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TRANS FILTER KITS - FORD & GENERAL MOTORS

FORD

AODE-W

(4WD) (2WD) (4R70W)

2011-94 Ford Various V8's
2003-94 Ford Explorer 4WD
1998-96 Ford Explorer 2 & 4WD
2001-97 Mercury Mountaineer 2 & 4WD
1998-96 Ford E150 2 & 4WD
1998-97 Ford E250 2 & 4WD
2001-99 Ford E150 4WD
2001-97 Ford Expedition 4WD

OEM: F4TZ-7A098A, F6AZ-7A098A
FRAM: FT1167
Purolator: P-1232, P1417
S/C: 84139

Farpak Filter Kit
428495

A4LD-E

4WD

2008-95 Ford Explorer
Ranger

OEM: F6TZ-7A098A
FRAM: FT1087A
Motorcraft: FT-103
Purolator: P-1237
S/C: 84142

*May retrofit 428452, bolt must be used on retrofit.

Farpak Filter Kit
428494

AX4N

w/Tall Orange Grommet

1996-95 Ford Taurus,
Mercury Sable

OEM: F5DZ-7A098A
Purolator: P1243
S/C: 84138

Farpak Filter Kit
428491

4F27E

2011-00 Ford Focus
2008-99 Mazda Protege
3.6 (2.0, 2.3L)

OEM:
Ford: XS4Z-7A098-AB
Mazda: FN01-21-500
FRAM: FT1210
Mighty: T320
S/C: 84144

Farpak Filter Kit
428626

AX45/AX4N

w/Green Grommet

2007-96 Ford Taurus,
Mercury Sable
Lincoln Continental

OEM: F6DZ-7A098A
Purolator: P1247
S/C: 84143

Farpak Filter Kit
428402

GENERAL MOTORS

TH-125/125L

2002-80 GM Products
NOTE: See 3T40 Transmissions (page H18-5) for updated TH-125 kit.

OEM: 8631951, 8631621, 8631342, 25010991, 8652910
AC/Delco: PF201
FRAM: FT1047
Purolator: P254
S/C: 82110

Farpak Filter Kit
428422

TH-200-4R

4 Speed Automatic Overdrive

1990-81 GM Products

OEM: 8634931, 8639951, 8634223, 8642933
FRAM: FT1057B
Purolator: P1194
S/C: 82112

Farpak Filter Kit
428427

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GENERAL MOTORS - *TRANS FILTER KITS*

GENERAL MOTORS

TH-250C & 350C, 375B

1986-68* Buick, Chevrolet, Chevrolet Trucks, Oldsmobile, Pontiac
*OEM: Nylon filtering media – Replaces felt filter

OEM: 6261412, 6438816, 8640848, 6258504, 6438853
FRAM: FT1021
Purolator: P221
S/C: 82100

Farpak Filter Kit
428413

TH-125C/3T40

2002-91 GM (FWD) Cars
1991-80 TH-125 applications
NOTE: Will retro fit all TH-125 Transmission applications.

OEM: 8631342, 8631621, 8631951, 25010991, 8666665
FRAM: FT1047
Purolator: P254
S/C: 82131

Farpak Filter Kit
428460

TH-400

1979-70 AMC Jeep
Late
1989-67 Chevrolet/GMC Trucks
1990 Cadillac, Chevrolet & GMC Trucks

OEM: 6259423, 6437741, 6438348, 6438851, 6439022, 12337210
FRAM: FT1020
Purolator: P220
S/C: 82102

With transmission filter installed

Farpak Filter Kit
428411

4L60-E

2011-93 GM Products
2006-97 Isuzu Products

OEM: 8681082, 8685950, 24200796
FRAM: FT1146
Purolator: P1211
S/C: 82135

Farpak Filter Kit
428484

TH-440-T4

1993-84 GM Products (FWD)

OEM: 8646902, 8661916, 8661918, 8662853, 8662943
FRAM: FT1072
Purolator: P1185
S/C: 82138

Farpak Filter Kit
428432

4L60E-RWD

4 Speed, Deep Pan

2011-93 GM Light Duty Trucks

OEM: 24208813, 24208465
FRAM: FT1217
Purolator: P1267

Farpak Filter Kit
428412

TH-700-4R

1995-82 GM Products

OEM: 8657926, 8634223, 12333599, 25011237, 8647972, 8647995, 8667689
FRAM: FT1074
Purolator: P1195
S/C: 82117

Farpak Filter Kit
428436

4L80-E

2011-97 Chevrolet P/U, Tahoe, Suburban
2011-97 GMC P/U, Yukon, Suburban

OEM: 24208847, 24210956
FRAM: FT1203
Purolator: P1263
S/C: 82140

Farpak Filter Kit
428409

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TRANS FILTER KITS - GENERAL MOTORS

GENERAL MOTORS

4L80-E

1996-91 Chevrolet/GMC Trucks
1999-95 AM General Hummer

OEM: 8675545, 8678757, 8684221
AMGN: 05743311
AC/Delco: TF249
FRAM: FT1134
Purolator: P1202
S/C: 82133

REUSABLE PAN GASKET

Farpak Filter Kit
428466

4T65E/4T60-E (TH-440-T4E)

2011-91 GM Cars (Lumina, Seville, etc.)

OEM: 8651909
AC/Delco: TF248
FRAM: FT1129A
Purolator: P1201
S/C: 82132

Farpak Filter Kit
428461

REUSABLE PAN GASKET

4T40E

2011-95 Most Midsize GM Products including Saturn

OEM: 8685185
FRAM: FT1166
Mighty: T315
Purolator: P1268
S/C: 82143

Farpak Filter Kit
428625

ALLISON LCT 1000/2000

(2WD) (Shallow Pan Version - Black in Color)

2011-01 GMC 6.6L
Chev./GMC HD P/U
Duramax 8100, 8.1L
GM Motor Homes
Freight Liner LD Trucks
Medium Duty W6 & Up
Isuzu, Nissan,
Mitsubishi Fuso
International Harvester
3800 Series

OEM: 29537965
FRAM: F1228
S/C: 82145

Farpak Filter Kit
428632

REUSABLE GASKET (NOT INCLUDED)

4T60-Late

1993-84 GM Products
1992-85 Cadillac

OEM: 8689918, 8662853, 8682471
FRAM: FT1072
Purolator: P1185
S/C: 82138

*Can be used on most applications for 428432.

Farpak Filter Kit
428500

SATURN

2002-91 Saturn

OEM: 21002303, 21003298
FRAM: P6646
S/C: 82134

Filter Kit
428463

4T80-E

4 Speed, FWD

2011-94 Most Cadillacs & Various other GM Products

OEM: 8679416, 8680700
FRAM: FT1172
Purolator: P1227
S/C: 82139

Farpak Filter Kit
428415

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IMPORTS - *TRANS FILTER KITS*

IMPORTS

A130, A132/L

2002-83 Toyota Tercel
2001-85 Chevrolet Prizm
1997-89 Geo Prizm

OEM: 35330-20010, 20012, 32010, 32020, 32022, 94845748, 94850449
FRAM: FT1137
Purolator: P1189
S/C: 89125

Farpak Filter Kit
428479

A140E & A140L

2002-91 Toyota Products

OEM: 35330-32022
FRAM: FT1169
Purolator: P1231
S/C: 89152

Farpak Filter Kit
428406

A240L, 240E

2000-85 Toyota Products

OEM: 35330-12020
FRAM: FT1077
Purolator: P1224
S/C: 89127

Farpak Filter Kit
428478

A245, A246E

2002-93 Toyota Corolla

OEM: 35330-12030
FRAM: FT1162
Purolator: P1251
S/C: 89177

Farpak Filter Kit
428498

A-541E

2001-94 Lexus ES300
2004-94 Toyota Products

OEM: 35220-33010, 35330-33010
FRAM: FT1196
Purolator: P1245
S/C: 89179

Farpak Filter Kit
428405

RE4-R01A 2WD

2000-90 Infiniti
2003-98 Nissan Cars
2004-91 Nissan Trucks

OEM: 31728-41X00, 31728-41X02, 31728-51X02
FRAM: FT1124
Purolator: P1230
S/C: 89154

Farpak Filter Kit
428473

RE4F04A/V, 4F20E

2002-93 Nissan Quest
2006-93 Nissan Altima, Maxima 2, 4L, Sentra
2002-93 Mercury Villagers
2004-96 Infiniti

OEM:
Nissan: 31728-80X03
Ford: F3XY-7A098A
FRAM: FT1151
Purolator: P1234
S/C: 89158

Farpak Filter Kit
428476

H18

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TRANSMISSION FILTER INTERCHANGE

INTERCHANGE LISTING FOR PREMIUM FILTER KITS

PREMIUM PART NO.	REFERENCE NO.	AC	ATP	ARPAC	SERVICE CHAMP	FRAM	HASTINGS	MOTORCRAFT	NAPA	PUROLATOR	SPX FILTRAN	MIGHTY	WIX
428402	F6DZ-7A098A	--	--	--	84143	--	--	--	--	P1247	--	--	--
428405	35330-33010	--	--	--	89179	FT1196	TF146	--	--	P1245	--	T309	--
428406	35330-32022	--	--	FP219	89152	FT1169	TF117	--	--	P1231	--	P1231	58994
428409	24208847, 24210956	--	--	--	82140	FT1203	TF144	--	1-8564	P1263	--	--	58608
428410	52118789	--	--	--	86112	FT1206	--	--	--	P1262	--	--	--
428411	6259423 6437741	PF168	B29	AP100	82102	FT1020	TF16	FT20	1-4558	P220	628-106	T20	51881
428412	24208813	--	--	--	--	FT1217	--	--	--	P1267	--	--	--
428413	8640848	PF171	B37	AP101	82100	FT1021	TF6	FT21	1-4888	P221	628-146	T21	51878
428415	8679416, 8680700	TF305	--	--	82139	FT1172	TF136	--	--	P1227	--	--	51895
428417	8123042	PF189	B42	AP105/06	86101	FT1031, FT1032, FT1039	TF25	FT71	1-4942	P232, P233	628-104	T39	51707
428419	D5AZ-7A098BA	PF910	B44	AP108	84106	FT1037	TF29	FT45	1-4948	P235	628-115	T37	51929
428422	8631621	PF201	B56	AP120	82110	FT1047	TF47	FT60	1-5144	P254	628-147	--	51952
428427	8634931	TF215	B64	AP125	82112	FT1057B	TF55	FT79	1-7216	P1194	628-156	T57A	51896
428428	E0AZ-7A098A	TF212	B62	AP121	84114	FT1056	TF51	FT58	1-5037	P255	--	T56	51939
428429	E9FZ-7A098A	TF217	B63	AP127	84116	FT1058	TF54	FT57	1-7299	P1150	628-154	T58	51921
428432	8662853	TF236	B72	AP140	82138	FT1072	TF72	--	1-7804	P1185	F165A	T72	51942
428433	4269649	TF221	B71	AP132	86106	FT1065	TF64	--	1-7466	P1175	628-164	T65	51705
428436	8667689	TF216	B67/B96	AP124	82117	FT1074	TF60	FT79	1-7936	P1195	628-158	T74	51897, 51898
428446	E6SP-7G186AB	TF251	B95	AP150	84143	FT1073A	TF81	FT87	1-7937	P1193	F176	T73	51956
428451	E6TZ-7A098B	TF238	B93	AP137	84131	FT1088	TF84	FT86	1-7938	P1182	F192	T88	51957
428454	4504048	TF242	B102	AP153	86108	FT1122	TF88	--	1-7940	P1198	--	T122	51934
428457	E5TZ-7A098-A	TF243	B92	AP139	84115	FT1086	TF74	FT81, FT84	1-7801	P1184	F186	T86	51949
428458	E9TZ-7A098	TF266	B103	AP154	84135	FT1131	TF92	FT88	1-7953	P1213	--	T130	51967
428459	E9TZ-7A098-B	TF283	B104	AP155	84136	FT1130	TF93	FT89	1-7954	P1214	--	--	51968
428460	8666665	TF230	B56	AP180	82131	FT1047	TF77	FT69	1-5147	P254	628-147	T47	51952
428461	8651651	TF248	B106	AP171	82132	FT1129A	TF90	--	1-8096	P1201	F217	T248	51918
428463	21002303	TF298	--	AP189	82134	P6646	HP956	--	--	P1215	--	T293	51546
428464	83504032	TF271	B112	FP181	86110	FT1102	TF95	--	1936	P1206	--	T102X	51936
428466	8675545	TF249	B105	AP172	82133	FT1134	TF91	--	1-7590	P1202	--	T249	51836
428473	31728-41X00	TF254	B131	FP193	89154	FT1124	TF125	--	1974	P1230	--	P1230	51974
428476	31728-80X03	TF309	--	AP226	89158	FT1151	TF131	--	--	P1234	--	P1234	58602
428478	35330-12020	TF253	B-111	AP145	89127	FT1077	TF80	--	1-7818	P1224	--	T104	51902
428479	35330-32022	--	B84	FP144	89125	FT1137	TF117	--	1-7971	P1189	B-180	--	51960
428483	F4DZ-7A098A	--	--	--	84140	--	--	FT87	--	--	F251	--	--
428484	8681082	TF256	B126	AP200	82135	FT1146	TF113	--	1-7589	P1211	F243A	T292	51904
428485	4567070	TF258	--	AP213	86111	FT1141	TF114	--	1993	P1220	F253	T294	51933
428487	E2VY-7A098A	TF286	B-118	AP199	84137	FT1144	TF110	FT100	1877	P1217	F230	T290	51877
428491	F5DZ-7A098A	--	--	--	84138	--	--	--	--	P1243	--	--	--
428492	F6DZ-7A098A	--	--	--	--	FT1160	--	--	--	P1242	--	--	--
428493	F5TZ-7A098A	--	--	--	84141	--	--	FT-102	--	P1236	--	--	--
428494	F6TZ-7A098A	TF240	B94	FP138	84142	FT1087A	TF140	FT-103	1-7939	P1237	--	P1237	51841
428495	F4TZ-7A098A	TF302	--	AP230	84139	FT1167	TF128	FT-101	--	P1232, P1417	--	P1232	51955
428498	35330-12030	--	--	FP145	89177	FT1162	TF145	--	--	P1251	--	T304	58605
428500	8689918, 8662853, 8682471	TF236	B72	FP140	82138	FT1072	HTF-21	--	1-7804	P1185	F165A	T72	58942
428625	8685185	--	--	--	82143	FT1166	--	--	--	P1268	--	T315	--
428626	XS4Z-7A098-AB FN01-21-500	--	--	--	84144	FT1210	--	--	--	--	--	T320	--
428627	4799507	--	--	--	86113	FT1223	--	--	--	--	--	T321	--
428628	4800029AA	--	--	--	86114	--	--	--	--	--	--	T322	--
428632	29537965	--	--	--	82145	FT1228	--	--	--	--	50440	--	--

*** STANDARD FILTER KIT**

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TRANSMISSION FILTER INTERCHANGE

PART NUMBER	CAR MAKER	TRANSMISSION TYPE	POPULARITY RATING
428402	Ford	AX4N	N
428405	Lexus/Toyota	A-541E	B
428406	Toyota	A140E, A140L	A
428409	GM	4L80E	B
428410	Chrysler	42, 44, 46, 47RE	A
428411	GM	TH400	A
428412	GM	4L60E-RWD	B
428413	GM	TH250 & 350	AA
428415	GM	4T80-E	B
428417	Chrysler	Torque Flite 6 & 8	A
428419	Ford	C-6	A
428422	GM	TH125	AA
428427	GM	TH200-4R	AA
428428	Ford	AOT	AA
428429	Ford	ATX	AA
428432	GM	TH440-T4	AA
428433	Chrysler	A404, 413, 415, 470, 670	B
428436	GM	TH700-4R	AA
428446	Ford	AXOD	AA
428451	Ford	A4LD	A
428454	Chrysler	A604	AA
428457	Ford	AOT	A
428458	Ford	E40D	A
428459	Ford	E40D	A
428460	GM	3T40	AA

PART NUMBER	CAR MAKER	TRANSMISSION TYPE	POPULARITY RATING
428461	GM	4T60	AA
428463	GM	Saturn	A
428464	Jeep	AW4	B
428466	GM	4L80-E	A
428473	Nissan	RE4-R01A	C
428476	Nissan	RL4-R01A	C
428478	Toyota	A240L/240E	B
428479	Toyota	A140E/L	A
428483	Ford	AXOD-E	A
428484	GM	4L60-E	A
428485	Chrysler	A606	N
428487	Ford	AODE	N
428491	Ford	AX4N	N
428492	Ford	AX4S	N
428493	Ford	A4LD-E-2WD	N
428494	Ford	A4LD-E-4WD	N
428495	Ford	AODE-W	N
428498	Toyota	A245,A246E	B
428500	GM	4T60-Late	B
428625	GM	4T40E	A
428626	Ford/Mazda	4F27E	B
428627	Chrysler/Jeep	45RFE (4WD)	A
428628	Chrysler/Jeep	45RFE (2WD)	A
428632	Allison/GMC	1000/2000	B

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EXHAUST SYSTEM HANGERS & COMPONENTS

GM OE STYLE HEAVY DUTY MUFFLER CLAMPS

Heavy duty for all maximum strength applications.

- **Hardened 3/8" U-bolt & 1/16" thick saddle to absorb higher tightening torques.**
- **Case-hardened, flanged, & serrated WHIZ-LOCK nut for non-distorting bearing surface, higher torque limits, extra tight locking power.**

SIZE	PART NUMBER	QTY
1-1/2	**41301**	12
1-3/4	**41302**	12
1-7/8	**41303**	12
2	**41304**	12
2-1/8	**41305**	12
2-1/4	**41306**	12
2-1/2	**41307**	12

Fits GM OE hangers / GM OE design

STANDARD MUFFLER CLAMPS

Improved design provides 360 leak-proof seal.

- **Strong 5/16" U-bolt complete with hex nuts.**
- **Heavy gauge cold-rolled steel saddles with reinforcing ribs and gussets for extra strong connections.**
- **Full circle clamp action for a rigid,gas tight connection.**

SIZE	PART NUMBER	QTY
1-1/2	**41101**	24
1-7/8	**41104**	24
2	**41105**	24
2-1/4	**41107**	24
2-1/2	**41108**	24

WELDED TRUCK CLAMPS

- **Tab welded saddle design provides maximum clamping force with virtually no twisting or spreading.**
- **Extra-long 3/8" U-bolts are heat-treated.**
- **Case-hardened, flanged, & serrated WHIZ-LOCK nut for non-distorting bearing surface, higher torque limits, extra tight locking power.**

PIPE SIZE	PART NUMBER	QTY
3	**41325**	12
4	**41326**	12

FLAT SADDLE
Required for mounting on GM hangers

HEAVY DUTY TRUCK MUFFLER CLAMPS

- **3/8" U-bolt.**
- **Heat treated, 3/8" locking flange nut.**
- **Saddle design provides a positive seal without cutting pipe.**
- **Heavy gauge steel provides additional rigidity and durability.**

SIZE	PART NUMBER	QTY
2-3/4	**41230**	1
3	**41231**	1
3-1/2	**41232**	1
4	**41233**	1
4-1/2	**41234**	1
5	**41235**	1

UNIVERSAL TAILPIPE HANGER

- **Heavy duty for fast, safe installation.**
- **Heavy gauge steel.**
- **Rubberized sound & vibration absorber.**
- **Perforated strap for easy installation, 6" long.**
- **Fits all 1-1/2" to 2" O.D. pipes.**
- **Supplied with 5/16" carriage bolts for one wrench installation.**

Part No. 41412 (12)

SWINGER HANGERS

The Original Swinger Hanger

- **Super heavy duty.**
- **Ideal for trucks, buses, auto's, RV's.**
- **Specially engineered to swivel left or right up to 45° and turn 360°.**
- **Will fit any and all configurations to meet any installation problems you encounter.**
- **1/8" (11 ga.) thick steel construction makes the Super H.D. hanger the strongest made.**

Part No. 41418 (12)
Length: 9-1/2"

Part No. 41419
Length: 17"

• Our most popular style •

The Short Swinger

- **Modification of the original 360 Swinger.**
- **Designed specifically for today's newer cars with tightly channeled exhaust systems where clearances are a problem.**
- **Same design features as the original but with a shorter, pre-bent strap and a convenient slot for minor adjustment.**

Part No. 41416 (12)

EMISSION SYSTEM CLAMP

Diagram shows example of a replacement three-way converter with the air tube attachment.

Connects OE air injection line to the catalytic converter.

General Motors
Air Tube Size: 1/2"

Part No. 425201 3

Fits:
3.8L (231 CI) V6 w/A.I.R System
4.4L (267 CI) V8 w/A.I.R. System
5.0L (305, 307 CI) V8 w/A.I.R System
Replaces: GM 2250516

UNIVERSAL AIR TUBE CLAMP

1" O.D.
Part No. 321547 2

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EMISSION COMPONENTS & HARDWARE

NEW CHRYSLER SPLIT FLANGES

- Designed to replace the engine pipe flange in front of the catalytic converter.
- Just remove the old burnt-out flange and install.
- Direct fit replacements - when assembled, will exactly duplicate OE flanges.
- Each flange includes OE spring package.

1989-83 All Chrysler Products (ex. Turbo)
1983-80 Omni Horizon (1.7, 2.2L)
1983-81 Aries, Reliant, LeBaron (2.2, 2.6L)

Part No. 825186 (3)

FORD SPLIT FLANGE KIT

Fits Ford Tempo/Taurus and Mercury Topaz/Sable from 1982-up.

- Designed primarily as a replacement for the flange on the inlet side of the converter.
- Includes O.E. equivalent shoulder bolts, ground springs and retaining nuts.
- Replaces: Midas X1333.

Part No. 825199 3

CATALYTIC CONVERTER LAMINATED STEEL SPLIT FLANGE KIT

- No disassembly required easy replacement without cutting or damaging the converter.
- Each flange kit includes 3/8" heat treated locking flanged nuts & tap bolts.

PART NUMBER	FITS PIPE SIZE	QTY
41428	1-3/4 - 2	6
41429	2 - 2-1/4	6

PART NUMBER	FITS PIPE SIZE	QTY
41431	2-1/4 - 2-1/2	6

EXHAUST MANIFOLD HARDWARE

1990-78 Chrysler, Dodge, Plymouth, All Front Wheel Drive exc. Turbo

OE #52170035, 4301631, 6100499

- **Also part of kit #825186**

Part No. 825188 6

1990-78 Chrysler, Dodge, Plymouth, All Front Wheel Drive w/ Turbo

OE # 5217003, 4301631, 4301350

Part No. 825202 6

1991-80 Ford Escort, Lynx
1990-89 Ranger, Bronco
1990-84 Taurus, Sable
1989-88 Continental w/ 230
1989-84 Tempo or Topaz w/ 140
1985-83 T-Bird, Cougar Continental w/ 302

OE # F9FZ-5F246, N802641-S

Part No. 825201 6

1996-88 Honda various models

Replacement for OE #18231-SB2-000, 18231-SR3-J01, 18231-SH3-J31, 18231-SR3-A22, 90115-SB2-003, 90115-SH3-J30, 18230-SA0-930

Part No. 825128 6

DOUBLE END METRIC STUDS

- Class 5.6 - Din 939.
- Black oxide finish.

Part No. 501395
152 pieces • 23 items
12017 steel tray

51186	532313	532317	532321	553166	702135
51198	532314	532318	532322	553161	702136
532311	532315	532319	532323	553162	702137
532312	532316	532320	532324	553163	

Numbers in assortment

DIAMETER & PITCH	LENGTH	PART NUMBER	A/B	QTY
6mm x 1.0	25mm	**532311**	18/7.5mm	25
6mm x 1.0	30mm	**532312**	18/7.5mm	25
6mm x 1.0	40mm	**532313**	18/7.5mm	25
6mm x 1.0	50mm	**532321**	18/7.5mm	25
8mm x 1.25	25mm	**532314**	22/10mm	25
8mm x 1.25	30mm	**532315**	22/10mm	25
8mm x 1.25	40mm	**532316**	22/10mm	25
8mm x 1.25	50mm	**532322**	22/10mm	25
10mm x 1.25	28mm	**532323**	20/14mm	24*
10mm x 1.25	32mm	**532324**	25/16mm	24*
10mm x 1.5	30mm	**532317**	26/12mm	25
10mm x 1.5	40mm	**532318**	26/12mm	25
10mm x 1.5	50mm	**532319**	26/12mm	25
10mm x 1.5	80mm	**532320**	26/12mm	25

* Plated

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EXHAUST HARDWARE

EXHAUST BOLT ASSORTMENT

- Muffler shop time saver.
- Most popular exhaust bolts, self-tapping screws, oversize washers and nuts.
- All the hardware needed to hang every exhaust system.

Part No. 501454
320 pieces • 24 items
12017 steel tray

41425	41445	41449	717144	825136	825141
41426	41446	50621	825133	825137	825142
41441	41447	50622	825134	825138	825143
41442	41448	717143	825135	825139	825144

Numbers in assortment

FULLY THREADED EXHAUST BOLTS

SIZE	PART NUMBER	QTY
5/16 x 1-1/4	**825141**	50
5/16 x 1-1/2	**825142**	50
5/16 x 2	**825133**	50
5/16 x 2-1/2	**825134**	50
5/16 x 3	**825135**	50
3/8 x 1	**825143**	50
3/8 x 1-1/2	**825136**	50
3/8 x 2	**825144**	50
3/8 x 2-1/2	**825137**	50
3/8 x 3	**825138**	50
3/8 x 3-1/2	**825139**	50
3/8 x 4	**825140**	50

- Oiled finish.
- Grade 2.
- USS coarse thread.

*See page A12-8 & 9 for additional sizes and grades.

SELF TAPPING EXHAUST SYSTEM MOUNTING SCREWS

SIZE	PART NUMBER	QTY
6 x 20mm	**41427**	25
5/16 x 3/4	**41425**	100
5/16 x 1	**41426**	100
5/16 x 1-1/2	**41445**	50
5/16 x 1-3/4	**41446**	50
3/8 x 3/4	**41441**	25
3/8 x 1-1/4	**41442**	25
3/8 x 1-1/2	**41447**	25
3/8 x 1-3/4	**41448**	25
3/8 x 2	**41449**	25

- UNIVERSAL - use to mount any bracket or hanger.
- Hardened Steel - cuts its own threads.
- Hex washer head.
- Lusterplated.

OVERSIZED EXHAUST HANGER WASHER

- Prevents hanger failure.
- Provides large bearing surface to prevent bolt pulling through hole.

I.D.	O.D.	PART NUMBER	QTY
5/16	1-1/4	**825148**	50
3/8	1-1/4	**825149**	50

JIS SMALL HEAD FLANGE BOLTS & NUTS

- Class 10.9
- Import car exhaust systems.
- 14mm wrench size.
- 20mm flange O.D.

SIZE	PART NUMBER	QTY
10 x 1.25 x 16mm	**825204**	10
10 x 1.25 x 20mm	**825205**	10
10 x 1.25 x 30mm	**825206**	10
10 x 1.25 x 40mm	**825207**	10
10 x 1.25mm (nut)	**825208**	10

"WHIZ LOCK" MUFFLER CLAMP NUTS

- Flanged, serrated, self-locking case-hardened.
- Replacement nuts for all clamps & brackets.

USS COARSE THREAD	PART NUMBER	QTY
5/16	**825145**	50
3/8	**825146**	50

METRIC LOCK NUTS

- Used on VW Manifold and Exhaust Systems.
- Copper plated steel.

SIZE PITCH	WIDTH ACROSS FLATS	OEM NUMBER	PART NUMBER	QTY
8mm-1.25	13mm	043-101-457L	**716889**	25
10mm-1.50	14mm	021-101-4575	**716890**	25

BRASS MANIFOLD NUTS

- Corrosion resistant. Burr-free threads.
- High strength copper-zinc formulation.
- 7 different domestic sizes, 5/16" to 1/2" USS & SAE.
- Six different metric sizes, 6 mm to 10mm.

USS STOCK NO.	WRENCH SIZE	NUT SIZE	HEIGHT	QTY
51178	5/16	1/2	17/64	50
51180	3/8	9/16	11/32	50
51186	3/8 HI	9/16	5/8	50
51182	7/16	11/16	3/8	50
51190	7/16	5/8*	3/8	50
51184	1/2	3/4	7/16	24

*Undersized

METRIC STOCK NO.	THREAD SIZE x PITCH	WRENCH SIZE	NUT HEIGHT	QTY
553161	6mm x 1.00	10mm	5mm	50
553162	8mm x 1.25	13mm	6mm	50
553165	8mm x 1.25	13mm	15mm	50
553163	10mm x 1.50	17mm	8mm	50

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EXHAUST HARDWARE and TRUCK/BUS/FARM/INDUSTRIAL

EXHAUST MANIFOLD CLAMP-A-STUD

THE CLAMP-A-STUD IS NOT A TEMPORARY CLAMP! IT'S MADE OF FORGED STEEL.

Clamp-A-Stud is a permanent, durable, professional alternative to the time and expense of drilling and tapping out broken studs. It even works on some manifolds with cracked or broken tangs.

PART NUMBER	SIZE RANGE (INCHES)	FITS MOST
825501	1-1/4 - 2-3/4	Domestic w/o Heat Riser

Give Clamp-A-Stud a try. No One's Lucky All The Time

You know the problem: broken or impossible to get at manifold studs. Hey, it happens, If you're lucky, it's a half-an-hour job. If you're not, it means extra time on the bench (or at the machine shop) and extra costs that somebody's got to absorb. Now there's a new way to deal with broken or problem studs. Clamp-A-Stud. The Clamp-A-Stud comes in four sizes which fit almost every manifold made. There's also a special Clamp-A-Stud for GM and Chevrolet 350 and 400 Heat-Riser Type Manifolds. And the price won't break you. So why take an hour or more to do a ten-minute job? Be smart.

EXHAUST SYSTEM SEALCLAMPS

Easy-To-Install

Most states require school buses to use sealclamps on all exhaust system joints for extra safety and protection.

The sure way to seal exhaust system joints.

- **Stainless steel.**
- **Grade 8 hardware included.**
- **No need for welding.**
- **Installs on already assembled exhaust.**
- **Flat band.**

PART NUMBER	SIZE	PART NUMBER	SIZE
425221	2	**425226**	3-1/2
425223	2-1/2	**425227**	4
425225	3	**425228**	5

All sizes 3-1/2" wide.

FLEXTITE "LAPJOINT" BAND CLAMPS

Joins straight pipe to flexible tube, providing a leak-proof secure seal.

Pre-formed with raised center ridge for perfect alignment and improved sealing.

- **Stainless steel.**
- **Invidually boxed.**
- **Completely assembled ready for installation.**

PART NUMBER	SIZE	PART NUMBER	SIZE
425241	2-1/2	**425244**	4
425242	3	**425245**	5
425243	3-1/2		

WEATHERCAPS®

Vertical Exhaust Stack Protection from Dirt, Weather and Insects.

For use on farm tractors, diesel engines, combines, hay balers, stationary power units, pumps, road pavers, irrigation wells, compressors, concrete mixers, rock crushers, earth movers, trucks: over-the-road, local delivery and construction.

ONLY WEATHERCAP® OFFERS THESE FEATURES:

- There is an engineered Weathercap size for each stack diameter. Over 20 different sizes to choose from. Fit vertical exhaust stacks from 1" to 7-15/16" O.D.
- Weathercap's proven design opens to full vertical position. The slightest pressure inside the stack operates Weathercap so engine breathes freely.
- Easy installation. Simply position and tighten one bolt. No holes to drill. No clamps needed.
- Closes instantly when exhaust pressure stops. Proper counter-balancing and high hinge point, allow Weathercap to close tightly even in abnormal parking angles.

PART NUMBER	TYPE NO.	MIN. EXHAUST O.D. (INCHES)	MAX. EXHAUST O.D. (INCHES)
425331	1	1-1/4	1-7/16
425333	3	1-3/4	1-15/16
425334	4	2	2-3/16
425335	5	2-1/4	2-7/16
425338	8	3	3-3/16
425340	10	3-1/2	3-11/16

PART NUMBER	TYPE NO.	MIN. EXHAUST O.D. (INCHES)	MAX. EXHAUST O.D. (INCHES)
425341	11	3-3/4	3-15/16
425342	12	4	4-3/16
425346	16	5	5-3/16
425348	18	5-1/2	5-11/16
425351	21	6-5/8	6-3/4

NOTE: Mounting band adjusts for differences of 3/32" over or under stack size.

Use only ORIGINAL Weathercaps.® Don't depend on substitutes. PROTECT YOUR EQUIPMENT INVESTMENT!

Be Aware Of The Dangers And Risks Of An Open Vertical Exhaust Stack
• Reduced engine performance • Income loss due to equipment down time • Repair expenses • Unplanned work rescheduling •

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B11	PNEUMATIC ACCESSORIES	B11
B12	HOSE CLAMPS	B12
B13	BRASS FITTINGS	B13
B14	O-RINGS	B14
B15	LUBRICATION FITTINGS	B15
B29	*HYDRAULICS BY WEATHERHEAD	B29

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Copper Sweat Fittings B10-7
Gate Valves B10-8
Malleable Iron Pipe Fittings B10-1-2
Black B10-1-2
Schedule 80 . . . . . .B10-2-3
PVC Schedule 40 Pipe Fittings B10-5
PVC Schedule 80 Pipe Fittings B10-6
Stainless Steel Pipe Fittings B10-3-4
Sweat Fittings B10-7
Valves B10-8

B11-PNEUMATIC ACCESSORIS

Air Hose Connectors B11-9
Air Hose Fittings B11-9
Air Hoses B11-1
Air Line Chucks B11-3
Air Line Couplers B11-5-9
ARO 210 . . . . . .B11-7
Brass Push Lock B11-7
Double Shut Off B11-8
Industrial B11-6-7
Lincoln Long Stem B11-8
Milton Style B11-5-6
Tru-Flate B11-7
Air Line Filter B11-2
Air Line Gauge B11-2
Replacement Parts B11-2
Air Line Nipples B11-6-8
Air Line Plugs B11-5-6
Air Line Regulator B11-2
Ball Swivel Air Hose
Connectors & Fittings B11-9
Blow Guns B11-3-4
Pocket B11-3
Chucks B11-3
Couplers B11-5-9
Cross Reference B11-10
Safety B11-9
Universal B11-8
Dust Caps & Plugs B11-9
Hydraulic Quick Couplers B11-9
Inflator Gauge B11-2
Nipples B11-6-8
Non-Kink Air Hose B11-1
Non-Marking Couplers B11-8
Perma Hose B11-1
Plugs B11-5-6
Pocket Blo-Guns B11-3
Polyurethane Air Hose B11-1
Pressure Gauge B11-2
Quick Couplers B11-9
Cross Reference B11-10
Quick Disconnect Couplers B11-8
Regulator B11-2
Self Coiling Air Hose B11-1
Universal Couplers B11-8
Whip Hose B11-1

B12-HOSE CLAMPS

Constant Torque Hose Clamps B12-2
Ear Clamps (2") B12-3
Hi-Torque Heavy Duty
Liner Hose Clamps B12-2
Hose Ferrules B12-4
Crimping Tool B12-4
Lined Hose Clamps B12-2
Make-A-Clamp B12-3
Micro Clamps B12-2
Norma Torro® Hose Clamps
(European Style) B12-3
Pincers (Plier Tools) B12-4
Spring Action B12-3
Stainless Steel 100%
(Band - Screw - Drive) B12-1
Standard Hose Clamps B12-1
Stepless Ear Clamps B12-4
T-Bolt Hose Clamps B12-2
Type G Fuel Injection Hose Clamps .B12-3

B13-BRASS FITTINGS, TUBING

Air Brake Fittings
Copper B13-26
Fastube Instant B13-23-24
Hose B13-27-28
Nylon B13-24-25
Adapters B13-22
Assortments B13-5, 13, 15, 17-18,
. . . . . .20-21, 23, 25
Barb B13-18
Caplugs B13-32
Composite Push-To-Conn Fittngs B13-14-15
Compression Fittings B13-5, 10
Cutters B13-31
Discharge Hose B13-27
Drain Cocks . . . . . .Section L15-4
Dubl-Barb Hose Fittings B13-21
Fastube
Air Brake Fittings B13-23-24
Compression Fittings B13-12-13
Fuller Transmission Fittings B13-18
Hose Fittings B13-20
Air Brake B13-27-28
Assemblies B13-27
Barb-Tite Clampless B13-21
Hydraulic Brake Fittings . .Section H15-1-6
Hydraulic Fittings . . .Weatherhead Catalog
Identification Guide B13-1
Inserts B13-29
Inverted Flare Fittings B13-5, 7-8
Oil Cooler Repair Fittings (GM) B13-19
Pipe Fittings B13-5-7
Push Connect Fittings B13-16-17
Push-On Hose B13-22
Quick Visual Reference B13-2-4
SAE 45 Degree Flare Fittings . .B13-5, 8-9
Selfalign Fittings B13-11
Threaded Sleeve Fittings B13-19
Tools B13-31
Tubing B13-29-30
Valves B13-28-29

B14-O-RINGS

O-Rings
Assortments B14-4-5
Buna-N B14-2-3
Caterpillar B14-4
Ethylene Propylene B14-2-3
Hydraulic B14-5
Metric B14-3
Nitrile B14-3
Splicing Kits B14-5
Square Cut B14-3
Technical Data B14-1
Viton B14-2-3

B15-LUBRICATION

Brake Bleeder Screw Caps B15-1
Grease Fittings
Actual Size Illustrations B15-3
Assortments B15-1
Caps B15-1
Fractional B15-4
Hydraulic B15-2
Metric B15-2
Self-Tapping B15-2
Steel B15-4
Tool B15-1
Pipe Plugs B15-4
Steel Plugs B15-4

NOTES

MALLEABLE IRON PIPE FITTINGS

BLACK MALLEABLE IRON PIPE FITTINGS

Use for piping systems. For air, gas, oil, water, steam, boilers, trucks, solvents, hydraulics and odd jobs.

- **Made in U.S.A.**
- **150 lbs. continuous pressure rating.**
- **Chamfered threads for easier assembly.**
- **Meets schedule 40 specifications.**

Federal Specifications:

Elbows, tees and reducers: WW-P-521
Caps, plugs and bushings: WW-P-471
Unions: WW-U-531

American Standard Specifications:

ANSI B16.3

Malleable Iron Pipe Fitting Assortment
Part No. 501468
391 pieces • 54 items
Sizes 1/8 thru 1"
80 bin compartment combination cabinet
(2) #12021 40 bins

330100	330138	330163	330221
330101	330139	330165	330223
330102	330140	330172	330231
330103	330141	330173	330233
330104	330145	330174	330240
330105	330146	330176	330242
330109	330147	330179	330249
330110	330148	330181	330251
330111	330149	330212	330259
330112	330150	330213	330260
330113	330154	330214	330267
330114	330156	330215	330268
330136	330158	330216	
330137	330159	330217	

Numbers in assortment

Assortment photo for illustration purposes only. Actual contents may vary.

Malleable Iron Pipe Fitting Steel Tray Assortment
Part No. 501467
57 pieces • 24 items
12017 steel tray

330100	330119	330145	330157	330213
330101	330127	330146	330158	330221
330109	330128	330154	330174	330222
330110	330136	330155	330209	330231
330118	330137	330156	330212	

Numbers in assortment

PIPE NIPPLES ON NEXT PAPE

GROUND JOINT UNIONS

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330187	330387	1/8
330188	330388	1/4
330189	330389	3/8
330190	330390	1/2
330191	330391	3/4
330192	330392	1
330193	330393	1-1/4
330194	330394	1-1/2
330195	330395	2

SQUARE HEAD PLUGS

*Steel

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330212	330412	1/8*
330213	330413	1/4*
330214	330414	3/8*
330215	330415	1/2
330216	330416	3/4
330217	330417	1
330218	330418	1-1/4
330219	330419	1-1/2
330220	330420	2

CAPS

*Steel

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330196	330396	1/8*
330197	330397	1/4*
330198	330398	3/8*
330199	330399	1/2
330200	330400	3/4
330201	330401	1
330202	330402	1-1/4
330203	330403	1-1/2
330204	330404	2

STREET TEES

(Black)

PART NUMBER	SIZE (INCHES)
330209	1/4
330210	3/8
330211	1/2

ALLOY STEEL SOCKET HEAD PLUGS

(Black)

PART NUMBER	SIZE (INCHES)
330205	1/8
330206	1/4
330207	3/8
330208	1/2

90° ELBOWS

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330100	330300	1/8
330101	330301	1/4
330102	330302	3/8
330103	330303	1/2
330104	330304	3/4
330105	330305	1
330106	330306	1-1/4
330107	330307	1-1/2
330108	330308	2

45° ELBOWS

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330118	330318	1/8
330119	330319	1/4
330120	330320	3/8
330121	330321	1/2
330122	330322	3/4
330123	330323	1
330124	330324	1-1/4
330125	330325	1-1/2
330126	330326	2

TEES

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330145	330345	1/8
330146	330346	1/4
330147	330347	3/8
330148	330348	1/2
330149	330349	3/4
330150	330350	1
330151	330351	1-1/4
330152	330352	1-1/2
330153	330353	2

REDUCERS

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330172	330372	1/4 x 1/8
330173	330373	3/8 x 1/8
330174	330374	3/8 x 1/4
330175	330375	1/2 x 1/4
330176	330376	1/2 x 3/8
330177	330377	3/4 x 1/4
330178	330378	3/4 x 3/8
330179	330379	3/4 x 1/2
330180	330380	1 x 1/2
330181	330381	1 x 3/4
330182	330382	1-1/4 x 3/4
330183	330383	1-1/4 x 1
330184	330384	1-1/2 x 1-1/4
330185	330385	2 x 1-1/4
330186	330386	2 x 1-1/2

90° STREET ELBOWS

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330109	330309	1/8
330110	330310	1/4
330111	330311	3/8
330112	330312	1/2
330113	330313	3/4
330114	330314	1
330115	330315	1-1/4
330116	330316	1-1/2
330117	330317	2

45° STREET ELBOWS

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330127	330327	1/8
330128	330328	1/4
330129	330329	3/8
330130	330330	1/2
330131	330331	3/4
330132	330332	1
330133	330333	1-1/4
330134	330334	1-1/2
330135	330335	2

STEEL COUPLINGS

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330136	330336	1/8
330137	330337	1/4
330138	330338	3/8
330139	330339	1/2
330140	330340	3/4
330141	330341	1
330142	330343	1-1/4
330143	330343	1-1/2
330144	330344	2

HEX BUSHINGS

*Steel

PART NUMBER BLACK	PART NUMBER GALVANIZED	SIZE (INCHES)
330154	330354	1/4 x 1/8*
330155	330355	3/8 x 1/8*
330156	330356	3/8 x 1/4*
330157	330357	1/2 x 1/8*
330158	330358	1/2 x 1/4*
330159	330359	1/2 x 3/8*
330160	330360	3/4 x 1/8
330161	330361	3/4 x 1/4
330162	330362	3/4 x 3/8
330163	330363	3/4 x 1/2
330164	330364	1 x 1/2
330165	330365	1 x 3/4
330166	330366	1-1/4 x 3/4
330167	330367	1-1/4 x 1
330168	330368	1-1/2 x 3/4
330169	330369	1-1/2 x 1
330170	330370	1-1/2 x 1-1/4
330171	330371	2 x 1-1/2

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SCHEDULE 80 MALLEABLE IRON PIPE FITTINGS

BLACK MALLEABLE IRON PIPE FITTINGS

PIPE NIPPLES

- Welded steel.
- Federal specifications WWP-404D ASTM spec A-53F.

PART NUMBER BLACK	GALVANIZED	SIZE M x F (INCHES)
330221	330421	1/8 x Close
330222	330422	1/8 x 1-1/2
330223	330423	1/8 x 2
330224	330424	1/8 x 2-1/2
330225	330425	1/8 x 3
330226	330426	1/8 x 3-1/2
330227	330427	1/8 x 4
330228	330428	1/8 x 4-1/2
330229	330429	1/8 x 5
330230	330430	1/8 x 5-1/2
330231	330431	1/4 x Close
330232	330432	1/4 x 1-1/2
330233	330433	1/4 x 2
330234	330434	1/4 x 2-1/2

PART NUMBER BLACK	GALVANIZED	SIZE M x F (INCHES)
330235	330435	1/4 x 3
330236	330436	1/4 x 3-1/2
330237	330437	1/4 x 4
330238	330438	1/4 x 5
330239	330439	1/4 x 6
330240	330440	3/8 x Close
330241	330441	3/8 x 1-1/2
330242	330442	3/8 x 2
330243	330443	3/8 x 2-1/2
330244	330444	3/8 x 3
330245	330445	3/8 x 3-1/2
330246	330446	3/8 x 4
330247	330447	3/8 x 5
330248	330448	3/8 x 6

PART NUMBER BLACK	GALVANIZED	SIZE M x F (INCHES)
330249	330449	1/2 x Close
330250	330450	1/2 x 1-1/2
330251	330451	1/2 x 2
330252	330451	1/2 x 2-1/2
330253	330453	1/2 x 3
330254	330454	1/2 x 3-1/2
330255	330455	1/2 x 4
330256	330456	1/2 x 4-1/2
330257	330457	1/2 x 5
330258	330458	1/2 x 6
330259	330459	3/4 x Close
330260	330460	3/4 x 2
330261	330461	3/4 x 2-1/2
330262	330462	3/4 x 3
330263	330463	3/4 x 3-1/2
330264	330464	3/4 x 4
330265	330465	3/4 x 5
330266	330466	3/4 x 6
330267	330467	1 x Close
330268	330468	1 x 2

PART NUMBER BLACK	GALVANIZED	SIZE M x F (INCHES)
330269	330469	1 x 3
330270	330470	1 x 4
330271	330471	1 x 5
330272	330472	1 x 6
330273	330473	1-1/4 x Close
330274	330474	1-1/4 x 3
330275	330475	1-1/4 x 4
330276	330476	1-1/4 x 5
330277	330477	1-1/4 x 6
330278	330478	1-1/2 x Close
330279	330479	1-1/2 x 3
330280	330480	1-1/2 x 4
330281	330481	1-1/2 x 5
330282	330482	1-1/2 x 6
330283	330483	2 x Close
330284	330484	2 x 3
330285	330485	2 x 4
330286	330486	2 x 5
330287	330487	2 x 6

SCHEDULE 80 MALLEABLE IRON PIPE FITTINGS

Use for piping systems. For air, gas, oil, water, steam, boilers, trucks, solvents, hydraulics and odd jobs.

- Made in U.S.A.
- 300 lbs. continuous pressure rating.
- Chamfered threads for easier assembly.
- Meets schedule 80 specifications.

American Standard Specifications:

ANSI B16.3 and B16.39 unions

Schedule 80 Malleable Iron Pipe Fitting Assortment
Part No. 501727
189 pieces • 39 items • Sizes 1/4 thru 1"
40 bin cabinet #12021

330800	330830	330859	330913
330801	330831	330861	330922
330802	330832	330864	330924
330803	330833	330866	330933
330804	330834	330888	330935
330808	330838	330889	330944
330809	330839	330890	330946
330810	330840	330891	330955
330811	330841	330892	330956
330812	330842	330911	

Assortment photo for illustration purposes only. Actual contents may vary.

Numbers in assortment

Malleable Iron Pipe Fitting Steel Tray Assortment
Part No. 501728
48 pieces • 18 items
12071 steel tray

330800	330830	330859	330888	330922
330801	330831	330861	330889	330924
330808	330838	330880	330911	
330809	330839	330881	330913	

Numbers in assortment

90° ELBOWS

PART NUMBER	SIZE (INCHES)
330800	1/4
330801	3/8
330802	1/2
330803	3/4
330804	1
330805	1-1/4
330806	1-1/2
330807	2

90° STREET ELBOWS

PART NUMBER	SIZE (INCHES)
330808	1/4
330809	3/8
330810	1/2
330811	3/4
330812	1
330813	1-1/4
330814	1-1/2
330815	2

45° ELBOWS

PART NUMBER	SIZE (INCHES)
330816	1/4
330817	3/8
330818	1/2
330819	3/4
330820	1
330821	1-1/4
330822	1-1/2
330823	2

45° STREET ELBOWS

PART NUMBER	SIZE (INCHES)
330824	1/2
330825	3/4
330826	1
330827	1-1/4
330828	1-1/2
330829	2

TEES

PART NUMBER	SIZE (INCHES)
330838	1/4
330839	3/8
330840	1/2
330841	3/4
330842	1
330843	1-1/4
330844	1-1/2
330845	2

COUPLINGS

PART NUMBER	SIZE (INCHES)
330830	1/4
330831	3/8
330832	1/2
330833	3/4
330834	1
330835	1-1/4
330836	1-1/2
330837	2

SQUARE HEAD PLUGS

Forged Steel

PART NUMBER	SIZE (INCHES)
330888	1/4
330889	3/8
330890	1/2
330891	3/4
330892	1
330893	1-1/4
330894	1-1/2
330895	2

CAPS

PART NUMBER	SIZE (INCHES)
330880	1/4
330881	3/8
330882	1/2
330883	3/4
330884	1
330885	1-1/4
330886	1-1/2
330887	2

GROUND JOINT UNIONS

PART NUMBER	SIZE (INCHES)
330872	1/4
330873	3/8
330874	1/2
330875	3/4
330876	1
330877	1-1/4
330878	1-1/2
330879	2

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SCHEDULE 80 & 304 STAINLESS STEEL PIPE FITTINGS

SCHEDULE 80 BLACK MALLEABLE IRON PIPE FITTINGS

HEX BUSHINGS

Forged Steel

PART NUMBER	SIZE (INCHES)
330846	1/2 x 1/4
330847	1/2 x 3/8
330848	3/4 x 1/4
330849	3/4 x 3/8
330850	3/4 x 1/2
330851	1 x 1/2
330852	1 x 3/4
330853	1-1/4 x 3/4
330854	1-1/4 x 1
330855	1-1/2 x 3/4
330856	1-1/2 x 1
330857	1-1/2 x 1-1/4
330858	2 x 1-1/2

REDUCERS

PART NUMBER	SIZE (INCHES)
330859	3/8 x 1/4
330860	1/2 x 1/4
330861	1/2 x 3/8
330862	3/4 x 1/4
330863	3/4 x 3/8
330864	3/4 x 1/2
330865	1 x 1/2
330866	1 x 3/4
330867	1-1/4 x 3/4
330868	1-1/4 x 1
330869	1-1/2 x 1-1/4
330870	2 x 1-1/4
330871	2 x 1-1/2

PIPE NIPPLES

- Welded steel.
- Meets ASTM spec A-53F schedule 80.

PART NUMBER	SIZE (INCHES)
330900	1/8 x Close
330901	1/8 x 1-1/2
330902	1/8 x 2
330903	1/8 x 2-1/2
330904	1/8 x 3
330905	1/8 x 3-1/2
330906	1/8 x 4
330907	1/8 x 4-1/2
330908	1/8 x 5
330909	1/8 x 5-1/2
330910	1/8 x 6
330911	1/4 x Close
330912	1/4 x 1-1/2
330913	1/4 x 2
330914	1/4 x 2-1/2
330915	1/4 x 3
330916	1/4 x 3-1/2
330917	1/4 x 4
330918	1/4 x 4-1/2

PART NUMBER	SIZE (INCHES)
330942	1/2 x 5-1/2
330943	1/2 x 6
330919	1/4 x 5
330920	1/4 x 5-1/2
330921	1/4 x 6
330922	3/8 x Close
330923	3/8 x 1-1/2
330924	3/8 x 2
330925	3/8 x 2-1/2
330926	3/8 x 3
330927	3/8 x 3-1/2
330928	3/8 x 4
330929	3/8 x 4-1/2
330930	3/8 x 5
330931	3/8 x 5-1/2
330932	3/8 x 6
330933	1/2 x Close
330934	1/2 x 1-1/2
330935	1/2 x 2
330936	1/2 x 2-1/2
330937	1/2 x 3
330938	1/2 x 3-1/2
330939	1/2 x 4
330940	1/2 x 4-1/2
330941	1/2 x 5

PART NUMBER	SIZE (INCHES)
330944	3/4 x Close
330945	3/4 x 1-1/2
330946	3/4 x 2
330947	3/4 x 2-1/2
330948	3/4 x 3
330949	3/4 x 3-1/2
330950	3/4 x 4
330951	3/4 x 4-1/2
330952	3/4 x 5
330953	3/4 x 5-1/2
330954	3/4 x 6
330955	1 x Close
330956	1 x 2
330957	1 x 2-1/2
330958	1 x 3
330959	1 x 3-1/2
330960	1 x 4
330961	1 x 4-1/2
330962	1 x 5
330963	1 x 5-1/2
330964	1 x 6
330965	1-1/4 x Close
330966	1-1/4 x 2
330967	1-1/4 x 2-1/2
330968	1-1/4 x 3

PART NUMBER	SIZE (INCHES)
330969	1-1/4 x 3-1/2
330970	1-1/4 x 4
330971	1-1/4 x 4-1/2
330972	1-1/4 x 5
330973	1-1/4 x 5-1/2
330974	1-1/4 x 6
330975	1-1/2 x Close
330976	1-1/2 x 2
330977	1-1/2 x 2-1/2
330978	1-1/2 x 3
330979	1-1/2 x 3-1/2
330980	1-1/2 x 4
330981	1-1/2 x 4-1/2
330982	1-1/2 x 5
330983	1-1/2 x 5-1/2
330984	1-1/2 x 6
330985	2 x Close
330986	2 x 2-1/2
330987	2 x 3
330988	2 x 3-1/2
330989	2 x 4
330990	2 x 4-1/2
330991	2 x 5
330992	2 x 5-1/2
330993	2 x 6

304 STAINLESS STEEL PIPE FITTINGS

Use for piping systems. For air, gas, oil, water, steam, boilers, trucks, solvents, hydraulics and odd jobs.

- Made in U.S.A.
- 150 lbs. continuous pressure rating.
- Chamfered threads for easier assembly.
- Screw Type.

American Standard Specifications:

ASTM-A351

Assortment photo for illustration purposes only. Actual contents may vary.

304 Stainless Steel Pipe Fitting Assortment
Part No. 501694
169 pieces • 54 items • Sizes 1/8 thru 1"
80 bin compartment combination cabinet (2) #12021 40 bins

330500	330514	330549	330576	330631
330501	330536	330550	330579	330633
330502	330537	330554	330581	330640
330503	330538	330556	330612	330642
330504	330539	330558	330613	330649
330505	330540	330559	330614	330651
330509	330541	330563	330615	330659
330510	330545	330565	330616	330660
330511	330546	330572	330617	330667
330512	330547	330573	330621	330668
330513	330548	330574	330623	

Numbers in assortment

304 Stainless Steel Pipe Fitting Steel Tray Assortment
Part No. 501693
54 pieces • 22 items
12017 steel tray

330500	330519	330554	330572	330622
330501	330536	330555	330574	330631
330509	330537	330556	330612	
330510	330545	330558	330613	
330518	330546	330559	330621	

Numbers in assortment

90° ELBOWS

PART NUMBER	SIZE (INCHES)
330500	1/8
330501	1/4
330502	3/8
330503	1/2
330504	3/4
330505	1
330506	1-1/4
330507	1-1/2
330508	2

90° STREET ELBOWS

PART NUMBER	SIZE (INCHES)
330509	1/8
330510	1/4
330511	3/8
330512	1/2
330513	3/4
330514	1
330515	1-1/4
330516	1-1/2
330517	2

45° ELBOWS

PART NUMBER	SIZE (INCHES)
330518	1/8
330519	1/4
330520	3/8
330521	1/2
330522	3/4
330523	1
330524	1-1/4
330525	1-1/2
330526	2

CAPS

PART NUMBER	SIZE (INCHES)
330596	1/8
330597	1/4
330598	3/8
330599	1/2
330600	3/4
330601	1
330602	1-1/4
330603	1-1/2
330604	2

TEES

PART NUMBER	SIZE (INCHES)
330545	1/8
330546	1/4
330547	3/8
330548	1/2
330549	3/4
330550	1
330551	1-1/4
330552	1-1/2
330553	2

COUPLINGS

PART NUMBER	SIZE (INCHES)
330536	1/8
330537	1/4
330538	3/8
330539	1/2
330540	3/4
330541	1
330542	1-1/4
330543	1-1/2
330544	2

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304 STAINLESS STEEL PIPE FITTINGS

304 STAINLESS STEEL PIPE FITTINGS

PIPE NIPPLES

- 304 stainless steel.
- Material conforms to ASTM-A312-83.
- Threading conforms to USAS-B12.1-1968.
- 150 lbs. rated.

PART NUMBER	SIZE (INCHES)
330621	1/8 x Close
330622	1/8 x 1-1/2
330623	1/8 x 2
330624	1/8 x 2-1/2
330625	1/8 x 3
330626	1/8 x 3-1/2
330627	1/8 x 4
330628	1/8 x 4-1/2
330629	1/8 x 5
330630	1/8 x 5-1/2
330631	1/4 x Close
330632	1/4 x 1-1/2
330633	1/4 x 2
330634	1/4 x 2-1/2
330635	1/4 x 3
330636	1/4 x 3-1/2
330637	1/4 x 4
330638	1/4 x 5
330639	1/4 x 6
330640	3/8 x Close
330641	3/8 x 1-1/2

PART NUMBER	SIZE (INCHES)
330642	3/8 x 2
330643	3/8 x 2-1/2
330644	3/8 x 3
330645	3/8 x 3-1/2
330646	3/8 x 4
330647	3/8 x 5
330648	3/8 x 6
330649	1/2 x Close
330650	1/2 x 1-1/2
330651	1/2 x 2
330652	1/2 x 2-1/2
330653	1/2 x 3
330654	1/2 x 3-1/2
330655	1/2 x 4
330656	1/2 x 4-1/2
330657	1/2 x 5
330658	1/2 x 6
330659	3/4 x Close
330660	3/4 x 2
330661	3/4 x 2-1/2
330662	3/4 x 3

PART NUMBER	SIZE (INCHES)
330663	3/4 x 3-1/2
330664	3/4 x 4
330665	3/4 x 5
330666	3/4 x 6
330667	1 x Close
330668	1 x 2
330669	1 x 3
330670	1 x 4
330671	1 x 5
330672	1 x 6
330673	1-1/4 x Close
330674	1-1/4 x 3
330675	1-1/4 x 4
330676	1-1/4 x 5
330677	1-1/4 x 6
330678	1-1/2 x Close
330679	1-1/2 x 3
330680	1-1/2 x 4
330681	1-1/2 x 5
330682	1-1/2 x 6
330683	2 x Close
330684	2 x 3
330685	2 x 4
330686	2 x 5
330687	2 x 6

HEX BUSHINGS

PART NUMBER	SIZE (INCHES)
330554	1/4 x 1/8
330555	3/8 x 1/8
330556	3/8 x 1/4
330558	1/2 x 1/4
330559	1/2 x 3/8
330560	3/4 x 1/8
330561	3/4 x 1/4
330562	3/4 x 3/8
330563	3/4 x 1/2
330564	1 x 1/2
330565	1 x 3/4
330566	1-1/4 x 3/4
330567	1-1/4 x 1
330568	1-1/2 x 3/4
330569	1-1/2 x 1
330570	1-1/2 x 1-1/4
330571	2 x 1-1/2

REDUCERS

PART NUMBER	SIZE (INCHES)
330572	1/4 x 1/8
330573	3/8 x 1/8
330574	3/8 x 1/4
330575	1/2 x 1/4
330576	1/2 x 3/8
330577	3/4 x 1/4
330578	3/4 x 3/8
330579	3/4 x 1/2
330580	1 x 1/2
330581	1 x 3/4
330582	1-1/4 x 3/4
330583	1-1/4 x 1
330584	1-1/2 x 1-1/4
330585	2 x 1-1/4
330586	2 x 1-1/2

SOCKET HEAD PLUG

PART NUMBER	SIZE (INCHES)
330605	1/8
330606	1/4
330607	3/8
330608	1/2

SQUARE HEAD PLUGS

PART NUMBER	SIZE (INCHES)
330612	1/8
330613	1/4
330614	3/8
330615	1/2
330616	3/4
330617	1
330618	1-1/4
330619	1-1/2
330620	2

GROUND JOINT UNIONS

PART NUMBER	SIZE (INCHES)
330587	1/8
330588	1/4
330589	3/8
330590	1/2
330591	3/4
330592	1
330593	1-1/4
330594	1-1/2
330595	2

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PVC SCHEDULE 40 PIPE FITTINGS

PVC SCHEDULE 40 PIPE FITTINGS

Used in chemical processing, water distribution, deionized water lines, drainage and irrigation systems.

- **PVC is a polyvinylchloride Type 1, Grade 1.**
- **Meets ASTM D-2466 and D-1784 specifications.**
- **Maximum temperature 140°F.**
- **NSF certified for potable water applications.**
- **Outstanding chemical resistance to nearly all acids,alkalis, alcohols, halogens, and many other corrosive materials.**
- **Less moisture condensation, reduced heat loss, more uniform fluid temperature than metallics.**
- **Used in many industrial, commercial, residential and institutional applications.**
- **Joined by solvent cementing.**
- **White in color.**
- **Not recommended for use in air or compressed gases.**
- **Burst pressure 220 PSI.**

PVC Schedule 40 Pipe Fitting Assortment
Part No. 501703
183 pieces • 37 items
40 bin cabinet #12021

330700	330714	330730	330744
330701	330715	330731	330745
330702	330718	330732	330748
330703	330719	330733	330749
330706	330720	330736	330750
330707	330721	330737	330751
330708	330724	330738	
330709	330725	330739	
330712	330726	330742	
330713	330727	330743	

Numbers in assortment

Assortment photo for illustration purposes only. Actual contents may vary.

TEES

Slip x Slip x Slip

PART NUMBER	SIZE (INCHES)	QTY
330712	1/2	10
330713	3/4	10
330714	1	5
330715	1-1/4	5
330716	1-1/2	2
330717	2	2

COUPLINGS

Slip x Slip

PART NUMBER	SIZE (INCHES)	QTY
330718	1/2	10
330719	3/4	10
330720	1	10
330721	1-1/4	5
330722	1-1/2	5
330723	2	5

UNIONS

Slip x Slip

PART NUMBER	SIZE (INCHES)	QTY
330730	1/2	2
330731	3/4	2
330732	1	2
330733	1-1/4	1
330734	1-1/2	1
330735	2	1

CAPS

PART NUMBER	SIZE (INCHES)	QTY
330724	1/2	10
330725	3/4	10
330726	1	10
330727	1-1/4	5
330728	1-1/2	5
330729	2	5

FEMALE ADAPTERS

Slip x Female Pipe Thread

PART NUMBER	SIZE (INCHES)	QTY
330736	1/2	10
330737	3/4	10
330738	1	10
330739	1-1/4	5
330740	1-1/2	5
330741	2	5

90° ELBOWS

Slip x Slip

PART NUMBER	SIZE (INCHES)	QTY
330700	1/2	10
330701	3/4	10
330702	1	5
330703	1-1/4	5
330704	1-1/2	2
330705	2	2

45° ELBOWS

Slip x Slip

PART NUMBER	SIZE (INCHES)	QTY
330706	1/2	5
330707	3/4	5
330708	1	5
330709	1-1/4	5
330710	1-1/2	2
330711	2	2

MALE ADAPTERS

Slip x Male Pipe Thread

PART NUMBER	SIZE (INCHES)	QTY
330742	1/2	10
330743	3/4	10
330744	1	10
330745	1-1/4	5
330746	1-1/2	5
330747	2	5

BUSHINGS

Slip x Slip

PART NUMBER	SIZE (INCHES)	QTY
330748	3/4 x 1/2	10
330749	1 x 3/4	5
330750	1-1/4 x 1	5
330751	1-1/2 x 1	5
330752	1-1/2 x 1-1/4	5
330753	2 x 1-1/2	5

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PVC SCHEDULE 80 PIPE FITTINGS

PVC SCHEDULE 80 PIPE FITTINGS

Used in chemical processing, water distribution, deionized water lines, drainage and irrigation systems.

- **Formulated with UV screens for long term outdoor exposure.**
- **PVC is a polyvinylchloride Type 1, Grade 1.**
- **Meets ASTM D-2466 and D-1784 specifications.**
- **Maximum temperature 140°F.**
- **NSF certified for potable water applications.**
- **Outstanding chemical resistance to nearly all acids,alkalis, alcohols, salt solutions, halogens, & many other corrosive materials.**
- **Less moisture condensation, reduced heat loss, more uniform fluid temperature than metallics.**
- **Used in many industrial, commercial, residential and institutional applications.**
- **Joined by solvent cementing.**
- **Grey in color.**
- **Not recommended for use in air or compressed gases.**
- **Burst pressure 320 PSI.**

PVC Schedule 80 Pipe Fitting Assortment
Part No. 501732
106 pieces • 37 items
40 bin cabinet #12021

331000	331014	331030	331044
331001	331015	331031	331045
331002	331018	331032	331048
331003	331019	331033	331049
331006	331020	331036	331050
331007	331021	331037	331051
331008	331024	331038	331052
331009	331025	331039	
331012	331026	331042	
331013	331027	331043	

Numbers in assortment

Assortment photo for illustration purposes only. Actual contents may vary.

TEES
Slip x Slip x Slip

PART NUMBER	SIZE (INCHES)
331012	1/2
331013	3/4
331014	1
331015	1-1/4
331016	1-1/2
331017	2

COUPLINGS
Slip x Slip

PART NUMBER	SIZE (INCHES)
331018	1/2
331019	3/4
331020	1
331021	1-1/4
331022	1-1/2
331023	2

90° ELBOWS
Slip x Slip

PART NUMBER	SIZE (INCHES)
331000	1/2
331001	3/4
331002	1
331003	1-1/4
331004	1-1/2
331005	2

UNIONS
Slip x Slip

PART NUMBER	SIZE (INCHES)
331030	1/2
331031	3/4
331032	1
331033	1-1/4
331034	1-1/2
331035	2

CAPS

PART NUMBER	SIZE (INCHES)
331024	1/2
331025	3/4
331026	1
331027	1-1/4
331028	1-1/2
331029	2

45° ELBOWS

PART NUMBER	SIZE (INCHES)
331006	1/2
331007	3/4
331008	1
331009	1-1/4
331010	1-1/2
331011	2

TEES
Slip x Male Pipe Thread

PART NUMBER	SIZE (INCHES)
331042	1/2
331043	3/4
331044	1
331045	1-1/4
331046	1-1/2
331047	2

BUSHINGS
Slip x Slip

PART NUMBER	SIZE (INCHES)
331048	3/4 x 1/2
331049	1 x 3/4
331050	1-1/4 x 1
331051	1-1/2 x 1
331052	1-1/2 x 1-1/4
331053	2 x 1-1/2

FEMALE ADAPTERS
Slip x Female Pipe Thread

PART NUMBER	SIZE (INCHES)
331036	1/2
331037	3/4
331038	1
331039	1-1/4
331040	1-1/2
331041	2

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COPPER SWEAT FITTINGS

COPPER SWEAT FITTINGS

NPT (National Pipe Thread)

- Manufactured from high quality copper.
- Meets ANSI B-16.22 specifications.
- Pressure ratings equal to copper tubing, chamfered edges.

FLUSH BUSHINGS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360375	1/4x1/8	5
4360380	3/8x1/8	5
4360385	3/8x1/4	5
4360395	1/2x1/4	5
4360400	1/2x3/8	5
4360405	3/4x3/8	5
4360410	3/4x1/2	2
4360415	1x3/8	2
4360420	1x1/2	2
4360425	1x3/4	2
4360430	1-1/4x1/2	2
4360432	1-1/4x3/4	2
4360445	1-1/2x1/2	2
4360450	1-1/2x3/4	2
4360455	1-1/2x1	2

REDUCER BUSHINGS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360411	3/4x1/2	5
4360426	1x3/4	2
4360441	1-1/4x1	2
4360460	1-1/2x1-1/4	2
4360466	2x3/4	1
4360471	2x1	1
4360476	2x1-1/4	1
4360478	2x1-1/2	1

CAPS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360548	1/8	10
4360550	1/4	10
4360555	3/8	10
4360560	1/2	25
4360565	3/4	10
4360570	1	5
4360575	1-1/4	5
4360580	1-1/2	2
4360585	2	1

MALE ADAPTERS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360140	1/8	2
4360145	1/4	2
4360150	3/8	5
4360155	1/2	5
4360160	3/4	5
4360165	1	2
4360170	1-1/4	1
4360175	1-1/2	1
4360180	2	1

FEMALE ADAPTERS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360005	1/8	2
4360010	1/4	2
4360015	3/8	2
4360020	1/2	5
4360025	3/4	5
4360030	1	1
4360035	1-1/4	1
4360040	1-1/2	1
4360045	2	1

UNIONS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4362235	3/8	1
4362240	1/2	2
4362245	3/4	2
4362250	1	1
4362255	1-1/4	1
4362260	1-1/2	1
4362265	2	1

COUPLINGS with STOPS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360660	1/8	25
4360665	1/4	25
4360670	3/8	10
4360675	1/2	20
4360680	3/4	10
4360685	1	5
4360690	1-1/4	2
4360695	1-1/2	2
4360700	2	1

FEMALE TEES

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4362160	1/2	2
4362165	3/4	1
4362170	1	1

90° FITTING ELBOWS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4361245	3/8	5
4361250	1/2	5
4361255	3/4	5
4361260	1	1
4361265	1-1/4	1
4361270	1-1/2	1
4361275	2	1

45° FITTING ELBOWS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360990	3/8	2
4361000	1/2	5
4361005	3/4	5
4361010	1	1
4361015	1-1/4	1
4361020	1-1/2	1
4361025	2	1

TEES

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4361675	1/8	2
4361680	1/4	2
4361685	3/8	5
4361690	1/2	10
4361760	1/2x1/2x3/8	2
4361761	1/2x1/2x3/4	2
4361695	3/4	5
4361780	3/4x1/2x1/2	5
4361785	3/4x1/2x3/4	5
4361788	3/4x3/4x3/8	5
4361790	3/4x3/4x1/2	5
4361700	1	1
4361795	1x1/2x1/2	1
4361800	1x1/2x3/4	1
4361802	1x1/2x1	1
4361810	1x3/4x1/2	1
4361820	1x3/4x1	1
4361830	1x1x1/2	1
4361835	1x1x3/4	1
4361705	1-1/4	1
4361895	1-1/4x1-1/4x3/4	1
4361900	1-1/4x1-1/4x1	1
4361710	1-1/2	1
4361715	2	1

STRAPS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4250160	3/8	25
4250165	1/2	25
4250173	3/4	25
4250175	1	25

90° ELBOWS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4361040	1/4	5
4361045	3/8	5
4361050	1/2	10
4361055	3/4	5
4361060	1	2
4361065	1-1/4	1
4361070	1-1/2	1
4361075	2	1

45° ELBOWS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360935	1/4	2
4360940	3/8	2
4360945	1/2	5
4360950	3/4	5
4360955	1	1
4360960	1-1/4	1
4360965	1-1/2	1
4360970	2	1

FEMALE 90° ELBOWS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4361295	1/2	2
4361300	3/4	2

MALE 90° ELBOWS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4361430	1/2	2
4361435	3/4	2

REDUCING COUPLINGS without STOPS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360605	3/8	5
4360610	1/2	10
4360615	3/4	5
4360620	1	5

PLUGS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4361585	3/8	1
4361590	1/2	1
4361595	3/4	1

MALE FITTING ADAPTERS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360335	3/8	2
4360340	1/2	2
4360345	3/4	2
4360350	1	1
4360355	1-1/4	1
4360360	1-1/2	1
4360365	2	1

FEMALE FITTING ADAPTERS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360295	3/8	2
4360300	1/2	2
4360305	3/4	2
4360310	1	1
4360315	1-1/4	1
4360320	1-1/2	1
4360325	2	1

MALE FITTING ADAPTERS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360335	3/8	2
4360340	1/2	2
4360345	3/4	2
4360350	1	1
4360355	1-1/4	1
4360360	1-1/2	1
4360365	2	1

REDUCING COUPLINGS with STOPS

PART NUMBER	NPT/ TUBE SIZE (INCHES)	QTY
4360725	1/4x1/8	2
4360730	3/8x1/8	2
4360735	3/8x1/4	10
4360740	1/2x1/4	10
4360745	1/2x3/8	10
4360750	3/4x1/4	5
4360755	3/4x3/8	5
4360760	3/4x1/2	5
4360765	1x3/8	2
4360770	1x1/2	2
4360775	1x3/4	2
4360780	1-1/4x1/2	2
4360785	1-1/4x3/4	2
4360790	1-1/4x1	2
4360795	1-1/2x1/2	1
4360800	1-1/2x3/4	1
4360805	1-1/2x1	1
4360810	1-1/2x1-1/4	1
4360815	2x1/2	1
4360820	2x3/4	1
4360825	2x1	1
4360830	2x1-1/4	1
4360835	2x1-1/2	1

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VALVES

BALL VALVES - BRONZE

For water, oil or gaslines in mines, factories, apartment complexes, farms, hospitals, nursing homes, hotels, office buildings, prisons.

- 2-piece, bronze construction.
- Hard chrome plated ball - for smooth operation.
- Durafill seats (80%PTFE, 10% glass fiber, 10% carbon/graphite mix) provide positive seal & durability.
- Bottom loaded stem & packing nut threaded to body - provide extra margin of safety.
- 600 PSI water, oil & gas, 150 PSI steam.
- Vinyl coated handle - protects hand in high temperature application.
- Female pipe thread - NPTF.

PART NUMBER	NPTF (INCHES)
508370	1/4-18
508371	3/8-18
508372	1/2-14
508373	3/4-14
508374	1-11-1/2
508364	1-1/4-11-1/2
508365	1-1/2-11-1/2
508366	2-11-1/2
508367	2-1/2-8
508368	3-8
508369	4-8

BALL VALVES - BRASS

For use as fuel line shutoffs for gasoline and diesel powered over the highway, off highway, and construction equipment vehicles. Water and air service lines on capital equipment and plant design plumbing that require total shutoff capability.

- Forged brass bodies.
- PTFE seats and seals, provide resistance to chemical corrosion.
- Blow-out proof stem.
- Chrome plated brass ball.
- Specially designed handle for increased turning leverage for ease of opening and closing.
- Female pipe thread NPT.
- 600 PSI water, oil & gas, 150 PSI. steam.
- 400°F.
- Vacuum, 29 inches of mercury.
- Vented up to 250 P.S.I. for vented valves.
- Locking handles use s 5/16" diameter shackle padlock.

UNVENTED

PART NUMBER WITHOUT LOCKING HANDLE	PART NUMBER WITH LOCKING HANDLE	PIPE THREAD SIZE (NPTF) (INCHES)
508750	508763	1/4-18
508751	508764	3/8-18
508752	508765	1/2-14
508753	508766	3/4-14
508754	508767	1-11-1/2
508755	508768	1-1/4-11-1/2
508756	508769	1-1/2-11-1/2
508757	508770	2-11-1/2

VENTED

PART NUMBER WITHOUT LOCKING HANDLE	PART NUMBER WITH LOCKING HANDLE	PIPE THREAD SIZE (NPTF) (INCHES)
508758	508771	1/4-18
508759	508772	3/8-18
508760	508773	1/2-14
508761	508774	3/4-14
508762	508775	1-11-1/2

FULL PORT BALL VALVES - BRASS

For use as shutoffs for highway, off highway, and construction equipment vehicles. Water and air service lines on capital equipment and plant design plumbing that require total shutoff capability.

- Forged brass.
- Full follow design assures maximum system efficiency.
- PTFE seats provides resistance to chemical corrosion.
- Two Viton o-rings at the stem provide maximum safety with no maintenance.
- Blow-out proof system.
- Chrome plated brass ball.
- Specifically designed handle enables increased turning leverage for ease of opening and closing.
- Female pipe thread (NPTF) ports.
- 600 PSI, saturated steam 150 PSI.
- 0°F - 350°F.
- Vacuum, 29 inches of mercury.

PART NUMBER	PIPE THREAD SIZE (NPTF)
508776	1/4-18
508777	3/8-18
508778	1/2-14
508779	3/4-14*
508780	1-11.5*
508781	1-1/4-11.5
508782	1-1/2-11.5
508783	2-11.5

*UL® listed

UL® BALL VALVES - BRASS

These are hand operated ball valves, intended for use as a gas line service valve suitable for flammable liquids (YRBX), LP gas (YSDT), and compressed gas (YQNZ).

- Forged brass construction.
- Handles stamped UL® and 250 P.S.I.G.
- 250 P.S.I.G. maximum working pressure.
- 0°F - 250°F.
- Female pipe thread (NPTF) ports.
- UL® listed #842 test spec.

PART NUMBER	PIPE THREAD SIZE (NPTF)
508784	1/4-18
508785	3/8-18
508786	1/2-14
508787	3/4-14
508788	1-11.5

MINI BALL VALVES - BRASS

For use on water and air service lines on capital equipment and plant design plumbing that requires total shutoff capability.

- Ideal for confined and hard-to-reach applications.
- Chrome plated extruded brass construction.
- Blow-out proof stem.
- Hard chrome plate ball.
- PTFE seats.
- Viton stem seals.
- Temperature range 0°F to 200°F.
- Working pressure 450 P.S.I. max. depending on temperature being used.
- Female pipe threads - NPTF.

PART NUMBER LEVER HANDLE	PART NUMBER COMPACT HANDLE	PIPE THREAD SIZE (INCHES)
508789	508793	1/8-27
508790	508794	1/4-18
508791	508795	3/8-18
508792	508796	1/2-14

GATE VALVES - BRONZE

- Heavy duty bronze construction.
- Stem and packing nut made from brass rod.
- Cast iron handles.
- Valves are air-tested in open and closed position under water to insure leakproof casting and tight closure.
- Female pipe threads.
- Used for cold water, oil & gas.
- 200 P.S.I. water, oil & gas, 125 P.S.I. steam.

PART NUMBER	NPTF SIZE (INCHES)
508354	3/8-18
508355	1/2-14
508362	3/4-14
508363	1-11-1/2

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AIR HOSES

PERMA HOSE

The ultimate, premium air hose

- Nylon reinforced neoprene won't swell from oil contact (inside or outside) like regular EPDM air hose.
- Use where air tools are lubricated through the line, or where the cover comes in contact with oil.
- 1/4" NPT male brass fittings with spring guards on each end. Full 3/8" I.D. bore fittings.
- 3/8" I.D. bore, 23/32" O.D. 300 lbs. w/p, 1200 lbs. burst.

PART NUMBER	LENGTH
109110	3/8 I.D. x 25'
109111	3/8 I.D. x 50'

NYLON RECOIL AIR HOSE

- Bright yellow for safe visibility.
- Instantly recoils for easy storage
- Male fittings with spring guards.
- Live swivel on one end.

PART NUMBER	LENGTH	W/P	NPT MALE FITTING
113138	1/4 I.D. x 25'	170 PSI	1/4
113139	3/8 I.D. x 25'	170 PSI	3/8

FLEXCOIL® POLYURETHANE SELF COILING AIR HOSE

• Auto repair • automotive assembly • blow gun users • • nut runners • robotics • textile plants • • aerospace manufacturers • assembly stations • air ratchets • • machine shops • mobile equipment • nailing & stapling • • boat building • car lube shops • car wash systems • • impact wrenches • tire shops • vacuum pick-up tools • • water purification • water washdown system •

- Toughest recoil hose available.
- Working pressure: 125 psi @ 75°F.
- Outstanding coil memory.
- Highly link and abrasion resistant.
- Straight tails provide built in whip hose.
- Resistant to most oils and fuels.
- Male pipe fittings swivel one end and rigid other end.
- Transparent blue allows inspection of hose interior.
- Compact - smaller coiled O.D. than nylon.
- Outlast nylon hose 10-1.

PART NUMBER	TUBING I.D. x O.D.	LENGTH	COILED O.D.	NPT MALE FITTING
113180	1/4 x 3/8	15'	2-1/2	1/4
113181	1/4 x 3/8	25'	2-1/2	1/4
113182	3/8 x 9/16	15'	4-1/8	3/8
113183	3/8 x 9/16	25'	4-1/8	3/8

5 FOOT WHIP HOSE WITH SWIVEL FITTING

Swivel feature helps to prolong hose life. Prevents hose twisting and kinking.

- 1/4" x 5 feet.
- 1/4" NPT Swivel male x 1/4".
- NPT female .
- 200 P.S.I. working pressure.

Part No. 213232

FLEXEEL® REINFORCED POLYURETHANE STRAIGHT AIR HOSE

Temperature Range -40° F to +65°

- Offers an excellent alternative to much bilkier rubber and plastic hoses.
- Extremely lightweight and tough, it is ideal for either outdoor contractor use or indoor industrial use.
- Retains its flexibility even in cold environments.
- The reinforced construction eliminates the possibility of having the various layers separate due to constant expansion and contraction during pulsating operations, such as with staple or nail guns.

PART NUMBER	LENGTH	FITTING	HOSE I.D.	HOSE O.D.	WORKING PRESSURE @ 70 °F
113184	25'	1/4 MPT	3/8	9/16	200 PSI
113185	50'	1/4 MPT	3/8	9/16	200 PSI

NON - KINK AIR HOSE

- Three sizes and two pressure ratings for all air hose applications.
- Red rubber cover resists oil, grease, and weathering.
- Reinforced for maximum performance under extreme operating conditions.
- Applications include pneumatic tools and paint spraying.
- Male brass couplings on each end.

2 Braid
(3/8" & 1/2" Hose)

1 Braid
(1/4" Hose)

HOSE SIZE	PART NUMBER	BRASS COUPLING	WORKING PRESSURE	LENGTH
1/4" ID x 1/2" OD	**10901**	1/4" m x m NPT	1 Braid-200 lbs.PSI	25 ft.
3/8" ID x 23/32" OD	**10915**	1/4" m x m NPT	2 Braid-250 lbs.PSI	25 ft.
3/8" ID x 7/8" OD	**10916**	1/4" m x m NPT	2 Braid-250 lbs.PSI	50 ft.
1/2" ID x 7/8" OD	**10940**	1/2" m x m NPT	2 Braid-250 lbs.PSI	25 ft.
1/2" ID x 7/8" OD	**10941**	1/2" m x m NPT	2 Braid-250 lbs.PSI	50 ft.

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FILTERS, REGULATORS, GAUGES

IN-LINE WATER SEPARATOR AND AIR FILTER

- Removes water and foreign particles from compressed air stream.
- Attaches directly to paint spray gun or air tool.
- Reservoir accumulates water on a daily basis.
- Filter can be removed and cleaned periodically.
- 1/4" female (outlet).

Part No. 213235

1/4" STANDARD AIR LINE REGULATOR

- For General Purpose applications.
- Ideal where pressure must be held constant.

Part No. 113761

1/4" STANDARD AIR LINE FILTER

- 2 stage filtration - cyclone separation & residual filtration.
- Removes impurities such as scale, dirt & moisture.
- Clear transparent bowl permits inspection at a glance.
- Plastic bowl and metal guard.

Part No. 113757

2" PRESSURE GAUGE 1/4" BACK

- Unbreakable lens.
- Corrosion resistant.
- For air, oil, gas & water service.

Part No. 113756

INFLATOR GAUGE (Bayonet Type)

Part No. 813167

Reads from 10 lbs. to 120 lbs, graduations. Complete with dual head chuck. Nylon indicator bar with large black letters is easy to read and will not rust or corrode.

BAYONET AIRLINE GAUGE

The FIRST Single Replacement Cartridge Airline Gauge VALVE and GAUGE are Combined in
ONE REPLACEMENT CARTRIDGE
Measures from 10lbs. to 200 lbs. in 2 lb. increments!

Part No. 813165

MADE IN USA

LIMITED WARRANTY

This product is covered by a limited warranty for **repair only** for 1 year from date of purchase. This is the manufacturer's policy and only applies to units that are defective in materials or workmanship. Units that have been **abused** or are beyond the 1 year warranty **may not** be returned for repair. With proper care this item will provide long and trouble free service.

REPLACEMENT PARTS

WHIP HOSE ASSEMBLY

Part No. 813166

Complete with dual head chuck and 15" hose 3/8-24 thread. Replaces hose and chuck on 813165 and 813166.

GAUGE CARTRIDGE

Part No. 813164

For inflator gauge #813165.

VALVE CARTRIDGE

Part No. 813171

For inflator gauge #813165.

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AIR-LINE CHUCKS, BLOW GUNS

E-Z GRIP CHUCK FOR DIRECT AIRLINES

Works like "Quick Coupler". Snaps onto any standard tire valve and stays put until released. Built-in shut-off valve for use in air supply lines that come directly from the compressor with no other valve in line. Not for use with inflator gauges. 1/4" female pipe threads.

Part No. 11325

DUAL FOOT CHUCK

For 1/4" I.D. Hose. 1/4" female pipe threads.
No shutoff valve.

Part No. 11343

SNAP-ON CHUCK FOR DIRECT AIRLINES

Snap-on clip holds chuck to any standard tire valve. Built-in shut-off valve for use in air supply lines that come directly from the compressor with no other valves in line. Not for use with inflator gauges. 1/4" female pipe threads.

Part No. 11319

CHUCK REPAIR WASHER

Rubber replacement washer for Snap-on Chuck No. 11319.

Part No. 11327

BALL FOOT CHUCK

For 1/4" I.D. Hose. 1/4" female pipe threads.
No shutoff valve.

Part No. 11344

DUAL HEAD STRAIGHT FOOT, CHUCK

For inner duals, both ends lock on threads.
1/4" female NPT.

Part No. 10693

SAFETY BLOW GUN

Conforms to OSHA standards.
Tamper proof nozzle. 1/4" NPT female inlet.

Part No. 113750

SAFETY BLOW GUN

Same as 113750 but with 6" extension.

Part No. 113751

SAFETY BLOW GUN

Same as 113750 but with 10" extension.

Part No. 113752

RUBBER TIPPED BLOW GUN

Provides leakproof connection between gun and fluid line. Tip will not damage molds.

Part No. 113753

STRAIGHT LOCK-ON, CHUCK

U.S. style chuck. 1/4" FPT.

Part No. 11908

E-Z GRIP ADJUSTABLE POCKET BLO-GUN

- Fully adjustable two-finger air control adjusts from a mere whisper to full volume air flow.
- Pocket clip keeps Blo-gun handy. No need to stop to look for conventional style.
- Knurled tip allows secure handling at all times, even with oily or greasy hands.
- 4 sizes fit over 90% of 1/4" basic size couplers.

Part No. 213480
Fits All M-Style
Or Any Industrial
Interchange Coupler

Part No. 213481
Fits All A-Style
Or Any ARO(#210)
Style Coupler

Part No. 213482
Fits All T-Style
Or Any Tru-Flate
Or Parker-Hannifin Style

Part No. 213483
Fits All L-Style
Or Any
Lincoln Coupler

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BLOW GUNS

READY JET® INLINE BLOW GUN

"Handiest tool in the shop - always there, ready to use."

USING OUR READY JETS

Ready Jets fit permanently between the air hose and the coupler. The Ready Jet Inline Blow gun is a sealed unit and is virtually trouble free. The button is brass for a quality product. The valve seal is a neoprene o-ring which is impervious to water, oil, etc.

- **Save time, energy, & money.**
- **Always there, ready to use.**
- **Small, compact, & handy.**
- **Fits permanently between air hose & coupler.**
- **Never gets lost or misplaced.**
- **Natural angle for easy use.**
- **Durable and weighs only 2 oz.'s**
- **Precision machined for a quality tool.**
- **Deliver more air.**
- **Made in America.**
- **Female 1/4 NPT.**
- **Made of aircraft aluminum for toughness and light weight.**
- **Accepts 1/4" MPT fittings.**

RUBBER TIPPED INLINE BLOW GUN

- **Non-scratch tip.**
- **Inlet and outlet pressure the same.**
- **To meet OSHA requirements airline pressure must be reduced to 30 psi.**

Part No. 113740

REPLACEMENT RUBBER TIP

Part No. 113742

SAFETY INLINE BLOW GUN

- **Meets OSHA requirements with special relief hole in nozzle which limits pressure to 30 psi when dead ended and used on air line of 150 psi or less.**

Part No. 113741

REPLACEMENT SAFETY TIP

Part No. 113743

THE STAR TIP BLOW GUN

A variable-flow blow gun featuring a nozzle that complies with OSHA requirements.

"Star-tip" nozzle offers many safety features not found in other blow gun tips:

- **Ultra slim nozzle reduces noise level.**
- **Thinner tip, along with a special bent tube, for hard-to-reach places.**
- **"Star-tip" design allows full air flow through six separate outlets and still complies with OSHA requirements. Reduces noise levels when used with compressed air.**

New "star-tip" nozzle is a powerful, yet quiet, performer.

Six outlet tip offers an even distribution of air.

Part No. 113773

- **Female 1/4 NPT.**
- **Built-in silencer tip ensures low noise level, 79 dBA.**
- **Low air consumption, 5 CFM.**
- **Unique valve design allows a fully variable flow.**
- **Comfortable handling by using latest ergonomic design.**
- **High tensile materials for tough handling.**

Part No. 113772

PINPOINT AIR CONCENTRATOR TIP
Mount on STAR TIP BLOW GUN for concentrated, direct, pinpoint air flow for cleaning carburetor passages, orifices, pressurizing transmission valve bodies, etc.

MULTIFLOW

The Professional's Must-Have Air & Fluid Gun

Whether the job calls for cleaning with air or with fluid, drying or cooling, MultiFLOW - Air & Fluid Gun provides power on demand when and where it's needed.

Part No. 113771

- **Female 1/4 NPT.**
- **Cleans with air or fluids.**
- **Offers unmatched blowing force.**
- **Provides adjustable flow control.**
- **Reduces hose whip and noise.**
- **Prevents occupational injuries with non-slip grip.**
- **Withstands tough handling.**

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AIR TOOLS / AIR-LINE COUPLERS & PLUGS

HOW TO IDENTIFY INTERCHANGE DESIGNS

Interchangeability of pneumatic couplings is determined by NIPPLE DESIGN. Learn to identify the basic nipple types and coupler and nipple interchange will become easy. There are SEVEN different designs currently used in the automotive market. Four of these seven cover 97% of all quick couplings used today. We provides complete interchange to the four primary designs. The three designs NOT covered are shown at the bottom of the page.

INDUSTRIAL / MILTON DESIGN

This design has been adopted by many coupler manufacturers, including Milton, Hansen, Aro, Lincoln, and Schrader. It will work with either "sleeve" type or "push" type couplers. No matter what the coupler looks like, if it mates with this nipple, it is an "Industrial / Milton Interchange" design. It can be identified by its 3/16" pilot and its flat-bottomed, "V"-shaped ball groove.

TRU-FLATE DESIGN

This design is easily recognized because it has the shortest nipple pilot in the industry; however, it has the widest metal section between the ball groove and the pilot. In addition, the sealing surface on the end of the nipple is wider than other "interchange" designs. This design provides better sealing characteristics and longer seal life.

ARO DESIGN

This design is characteristic of the Aro-210 series, and requires a coupler of proper matching design. Although similar in appearance to the "Industrial / Milton Interchange" design, it can be easily distinguished because its pilot is 1/8" longer and its ball groove is nearly round.

LINCOLN DESIGN

The "Lincoln Long-Stem" design is the most easily identified design. The long 3/4" pilot is so distinctive it cannot be confused with the other designs. It will only mate with couplers of matching design.

OTHER DESIGNS

SCHRADER STANDARD

DIAMOND "U"

GRACO

HOW TO INTERCHANGE COUPLERS AND NIPPLES

1. **The Design Selection**
   Like name designs, no matter which manufacturer, are inter-changeable.
   NOTE: One DESIGN will NOT interchange with another design.
2. **The Size Selection**
   There are three BODY SERIES sizes— Standard 1/4" and Heavy Duty 3/8" and 1/2". To interchange, the coupler and nipple must have the same body size.
3. **Thread Size**
   To check size of pipe thread fittings, refer to catalog page B13-2.

HOW TO DETERMINE BODY SIZE/ COUPLER SIZE/BASIC SIZE

Coupler size is important, since too small a coupling can act as a restriction in the air line, reducing both the pressure and volume of air reaching the end of the hose. It is generally recommended that the body size of the coupler be matched to the I.D. of the hose being used. Thus 1/4" I.D. hose should be fitted with 1/4" I.D. couplings. Generally speaking, 3/16" I.D. hose should be fitted with 1/4" couplings, while 5/16" I.D. hose may be fitted with either 1/4" or 3/8" couplings, depending on the volume and pressure required at the end of the hose. 1/2" I.D. hose should be fitted with 1/2" couplings.

- **Maximum Inlet Pressure: 300PSI**
- **Seals: Buna-N**
- **Maximum Temperature: 250°F**

WARNING: COUPLERS IN THIS SECTION ARE FOR USE WITH SHOP AIR ONLY.

MILTON M-STYLE INDUSTRIAL INTERCHANGE SERIES

1/4" BASIC SIZE

Milton M-style "kwik-change" couplers and plugs will interchange with all manufacturers who comply with the dimensional requirements of military specification MIL-C-4109.

- **Coupler bodies are brass with brass sleeves.**
- **Plugs are case hardened steel plated to resist rust.**
- **Air flow: 40 SCFM**

	COUPLERS		PLUGS	
CONNECTION	PART NUMBER	QTY	PART NUMBER	QTY
1/4 NPT Female	**100715**	5	**100728**	10
1/4 NPT Male	**100716**	5	**100727**	10

STEEL SLEEVE w/DRAG GUARD

CONNECTION	PART NUMBER	QTY
1/4 NPT Female	**100755**	5

MILTON P-STYLE TRU-FLATE/PARKER INTERCHANGE SERIES

3/8" BASIC SIZE

- **Coupler bodies are heavy duty steel.**
- **Plugs are case hardened steel plated to resist rust.**
- **Bodies have 8 locking balls.**
- **Air flow: 68 SCFM**

	COUPLERS		PLUGS	
CONNECTION	PART NUMBER	QTY	PART NUMBER	QTY
1/4 NPT Female	**101803**	5	**101810**	10
1/4 NPT Male	**101804**	5	**101809**	10
3/8 NPT Female	**101805**	5	**101808**	10
3/8 NPT Male	**---**	-	**101807**	10

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AIR-LINE COUPLERS & PLUGS

MILTON A-STYLE "210" STYLE SERIES

1/4" BASIC SIZE

- Coupler is push type.
- Coupler bodies are steel plated to resist rust.
- Air flow: 34 SCFM
- Plugs are case hardened steel plated to resist rust.

	COUPLERS		PLUGS	
CONNECTION	PART NUMBER	QTY	PART NUMBER	QTY
1/4 NPT Female	**100775**	5	**100778**	10
1/4 NPT Male	**100776**	1	**100777**	10

MILTON T-TRU-FLATE/PARKER INTERCHANGE SERIES

1/4" BASIC SIZE

- Coupler bodies are brass.
- Air flow: 40 SCFM
- Plugs are case hardened steel plated to resist rust.

	COUPLERS		PLUGS	
CONNECTION	PART NUMBER	QTY	PART NUMBER	QTY
1/4 NPT Female	**100785**	5	**100784**	10
1/4 NPT Male	**100786**	5	**100783**	10

MILTON L-STYLE LINCOLN INTERCHANGE SERIES

1/4" BASIC SIZE

- Coupler is push type.
- Coupler bodies are steel plated to resist rust.
- Air flow: 32 SCFM
- Plugs are case hardened steel plated to resist rust.

	COUPLERS		PLUGS	
CONNECTION	PART NUMBER	QTY	PART NUMBER	QTY
1/4 NPT Female	**100790**	5	**100792**	10
1/4 NPT Male	**100794**	1	**100791**	10

MILTON H-STYLE INDUSTRIAL INTERCHANGE SERIES

3/8" BASIC SIZE

- Coupler bodies are steel plated to resist rust.
- Air flow: 67 SCFM
- Plugs are case hardened steel plated to resist rust.

	COUPLERS		PLUGS	
CONNECTION	PART NUMBER	QTY	PART NUMBER	QTY
1/4 NPT Male	**101834**	1	**101839**	1
3/8 NPT Female	**101835**	1	**101837**	1
3/8 NPT Female	**---**	-	**101838**	1

INDUSTRIAL INTERCHANGE

FEATURES
Full opening tubular valve design permits maximum flow while protecting and supporting the seal. A built-in sleeve guard minimizes accidental disconnect.

APPLICATION
Industrial Interchange Quick Couplings are designed for air, water and other low pressure fluid systems and are used throughout industry. Most common is the connection of air tools to compressed air supplies. They are noted for their high flow capacity, reliability, compact size and rugged design.

INTERCHANGEABILITY
Quick Couplings are completely interchangeable with push-type couplings and with similar "Industrial interchange" couplings manufactured by Hansen, Foster, ARO, Brecco, Dyna-Quip, Hoffman, Lincoln and others that conform to MILC-4109 dimensional specifications.

FEMALE PIPE THREAD

COUPLERS

PART NO.	SIZE (IN.)	TYPE	FITS
108606	1/4	FPT	1/4" Hose
108670	3/8	FPT	1/4" Hose
108607	3/8	FPT	3/8" Hose
108608	1/2	FPT	1/2" Hose

FEMALE PIPE THREAD

NIPPLES

PART NO.	SIZE (IN.)	TYPE	FITS
108656	1/4	FPT	1/4" Couplers
108672	3/8	FPT	1/4" Couplers
108657	3/8	FPT	3/8" Couplers
108658	1/2	FPT	1/2" Couplers

MALE PIPE THREAD

COUPLERS

PART NO.	SIZE (IN.)	TYPE	FITS
108609	1/4	MPT	1/4" Hose
108671	3/8	MPT	1/4" Hose
108610	3/8	MPT	3/8" Hose
108611	1/2	MPT	1/2" Hose

MALE PIPE THREAD

NIPPLES

PART NO.	SIZE (IN.)	TYPE	FITS
108659	1/4	MPT	1/4" Couplers
108673	3/8	MPT	1/4" Couplers
108660	3/8	MPT	3/8" Couplers
108661	1/2	MPT	1/2" Couplers

STANDARD HOSE BARB

COUPLER

PART NO.	SIZE (IN.)	TYPE	FITS
108612	1/4	Couplers	1/4" Hose

STANDARD HOSE BARB

NIPPLE

PART NO.	SIZE (IN.)	TYPE	FITS
108662	1/4	Nipple	1/4" Couplers

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AIR-LINE COUPLERS

INDUSTRIAL INTERCHANGE BRASS PUSH LOCK

FEATURES
Push-type design allows one hand connection with the nipple, provided the coupler half is rigidly mounted. Featured are solid brass coupler bodies with full opening steel tubular valves that provide high air flow and 360° seal support.

APPLICATION
Push-Type Quick Couplings are designed for air, water and other low pressure fluid systems and are used throughout industry. Most common is the connection of air tools to the compressed air supplies. They are noted for their high flow capacity, reliability, compact size and rugged design.

INTERCHANGEABILITY
Completely interchangeable with industrial interchange couplings and with similar "Industrial Interchange" couplings manufactured by Hansen, Foster, Dyna-Quip and others that conform to MILC-4109 dimensional specifications.

FEMALE PIPE THREAD

COUPLER

PART NO.	SIZE (IN.)	TYPE	FITS
108613	1/4	FPT	1/4" Hose

FEMALE PIPE THREAD

NIPPLE

PART NO.	SIZE (IN.)	TYPE	FITS
108656	1/4	FPT	1/4" Couplers

MALE PIPE THREAD

COUPLER

PART NO.	SIZE (IN.)	TYPE	FITS
108614	1/4	MPT	1/4" Hose

MALE PIPE THREAD

NIPPLE

PART NO.	SIZE (IN.)	TYPE	FITS
108659	1/4	MPT	1/4" Couplers

TRU-FLATE

FEATURES
Couplings feature full-opening tubular valves for maximum flow while protecting and supporting the seal. A protective sleeve guard minimizes accidental disconnection.

APPLICATION
Tru-Flate Couplings are the original Tru-Flate design that is widely accepted in the automotive aftermarket. They feature a large diameter nipple bore and wider sealing area for longer valve seal life and improved flow rate. The most common application is the connection of air tools to compressed air supplies.

INTERCHANGEABILITY
Tru-Flate Couplers may be used only with Tru-Flate design nipples.

FEMALE PIPE THREAD

COUPLERS

PART NO.	SIZE (IN.)	TYPE	FITS
108600	1/4	FPT	1/4" Hose
108601	3/8	FPT	3/8" Hose
108602	1/2	FPT	1/2" Hose

FEMALE PIPE THREAD

NIPPLES

PART NO.	SIZE (IN.)	TYPE	FITS
108650	1/4	FPT	1/4" Couplers
108651	3/8	FPT	3/3" Couplers
108652	1/2	FPT	1/2" Couplers

MALE PIPE THREAD

COUPLERS

PART NO.	SIZE (IN.)	TYPE	FITS
108603	1/4	MPT	1/4" Hose
108604	3/8	MPT	3/8" Hose
108605	1/2	MPT	1/2" Hose

MALE PIPE THREAD

NIPPLES

PART NO.	SIZE (IN.)	TYPE	FITS
108653	1/4	MPT	1/4" Couplers
108654	3/8	MPT	3/8" Couplers
108655	1/2	MPT	1/2" Couplers

ARO 210 INTERCHANGE

FEATURES
ARO Series couplings feature tubular valve in a coupler body that interchanges only with ARO 210 design couplers and nipples. Couplings are available only in 1/4" body size.

APPLICATIONS
ARO 210 Quick couplings are designed for air, water & other low pressure fluid systems.

FEMALE PIPE THREAD

COUPLER

PART NO.	SIZE (IN.)	TYPE	FITS
108615	1/4	FPT	1/4" Hose

FEMALE PIPE THREAD

NIPPLE

PART NO.	SIZE (IN.)	TYPE	FITS
108665	1/4	FPT	1/4" Couplers

MALE PIPE THREAD

COUPLER

PART NO.	SIZE (IN.)	TYPE	FITS
108616	1/4	MPT	1/4" Hose

MALE PIPE THREAD

NIPPLE

PART NO.	SIZE (IN.)	TYPE	FITS
108666	1/4	MPT	1/4" Couplers

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AIR-LINE COUPLERS

DOUBLE SHUT-OFF BRASS SLEEVE

APPLICATION
Couplings incorporate valves in both the body and nipple halfs to prevent fluid loss when the coupling is disconnected. These couplings are normally referred to as "Hydraulic Couplings" but they are used extensively with other media where fluid loss on disconnect is objectionable.

FEMALE PIPE THREAD

COUPLER

PART NO.	SIZE (IN.)	TYPE	FITS
108617	3/8	FPT	3/8" Hose

FEMALE PIPE THREAD

NIPPLE

PART NO.	SIZE (IN.)	TYPE	FITS
108667	3/8	FPT	3/8" Coupler

LINCOLN LONG STEM

APPLICATION
Lincoln Long Stem Series Couplings interchange with Lincoln's "Long Stem" series couplings. Couplings feature a full opening tubular cage for maximum flow and built-in sleeve guard to minimize accidental disconnect. Available only in 1/4" body size.

FEMALE PIPE THREAD

COUPLER

PART NO.	SIZE (IN.)	TYPE	FITS
108618	1/4	FPT	1/4" Hose

FEMALE PIPE THREAD

NIPPLE

PART NO.	SIZE (IN.)	TYPE	FITS
108668	1/4	FPT	1/4" Coupler

MALE PIPE THREAD

COUPLER

PART NO.	SIZE (IN.)	TYPE	FITS
108619	1/4	MPT	1/4" Hose

MALE PIPE THREAD

NIPPLE

PART NO.	SIZE (IN.)	TYPE	FITS
108669	1/4	MPT	1/4" Coupler

E-Z MATE QUICK-DISCONNECT COUPLERS

Used with standard or industrial interchange design nipples for: air, water and other low pressure fluid systems not exceeding 300 PSI.

- **Vent allows connection or disconnections at "zero" PSI.**
- **Minimizes hazardous hose whip.**
- **Valve sleeve allows air to be turned on and off with fingertips.**
- **O-Ring seal assures bubble tight seal.**
- **Built in sleeve-lok locks the valve sleeve to help prevent accidental disconnects.**
- **Female pipe thread.**

PIPE THREAD SIZE	PART NUMBER	BODY SIZE I.D.
1/4 - 18	**108675**	1/4
3/8 - 18	**108676**	3/8
1/2 - 14	**108677**	1/2
3/4 - 14	**108678**	3/4

UNIVERSAL COUPLERS

One coupler fits: Tru-flate, ARO, or industrial interchange 1/4 nipples.

- **150 PSI pressure rating.**
- **Temperature range - 40°F to +250°F.**
- **All brass body and sleeve.**
- **Push to connect style makes coupling quick and easy.**
- **Takes the guess work out of identifying various interchanges.**
- **Reduces inventory requirements, only 1 coupler needed for the 3 most popular 1/4" interchanges.**

Part No. 108679
1/4" Female NPT
1/4 Body Size I.D.

Part No. 108680
1/4" Male NPT
1/4 Body Size I.D.

NON-MARKING COUPLERS

Used with industrial interchange design nipples.
For air, water, and other low pressure fluid systems.

- **Non-marking-polyamide construction.**
- **Lightweight - easy to use.**
- **Push to connect - locking fingers are made of polyacetate.**
- **Durable - constructed of stainless steel springs, balls and pins.**
- **Allows trapped pressure to be vented prior to disconnection.**
- **300 lbs. maximum pressure.**
- **Temperature range: 5° to 180°F.**
- **Meets ISO 4414 specification.**
- **National pipe thread.**

Female

FEMALE PIPE THREAD

BODY SIZE	THREAD SIZE NPTF	PART NUMBER
1/4	1/4-18	**108691**
1/4	3/8-18	**108692**
3/8	1/4-18	**108693**
3/8	3/8-18	**108694**
3/8	1/2-14	**108695**

Male

MALE PIPE THREAD

BODY SIZE	THREAD SIZE NPTM	PART NUMBER
1/4	1/4-18	**108696**
1/4	3/8-18	**108697**
3/8	1/4-18	**108698**
3/8	3/8-18	**108699**

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AIR-LINE / HYDRAULIC QUICK COUPLERS

SAFETY COUPLERS

Allows 360° rotation of pneumatic tools.

1/4" BODY SIZE - FEMALE NPT

Put safety first by making dangerous hose whips a thing of the past, all with the push of a button.

Use for: Air tools, blow guns, or anywhere compressed air is used.

- Vents the air circuit & prevents injury.
- Prevents leakage, saves money on energy usage.
- May be used with existing plugs of the same profile type.
- Connect & disconnect with one hand.
- High impact composite maetrial, will not scratch surfaces.
- Superior nitrile o-ring design.
- One push of a button, rapid & effortless use.
- Anti-static & lightweight.

Part No. 100697
Industrial Series
Same style as Milton 715
Replaces our
Part No.'s 100715 & 108606
BLUE button

Part No. 100699
ARO 210 Series
Same style as Milton 775
Replaces our
Part No.'s 100775 & 108615
YELLOW button

Part No. 100698
Tru-Flate Style
Same style as Milton 785
Replaces our
Part No.'s 100785 & 100600
RED button

Just one push of the button first releases air line pressure, then releases the fitting.

HYDRAULIC QUICK COUPLING DUST CAPS AND PLUGS

Used to protect hydraulic couplers and nipples.

- Keeps mating surface clean and free of contamination.
- Protects critical mating elements of the coupling halves when disconnected.
- Damaged nipples make coupling unusable.
- HD Rubber (Geolast) for durability and flexibility.
- No hydraulic quick coupling purchase is complete without a dust cap and plug.
- Dust plug: used on coupler (female side). Dust cap: used on nipple (male side).

Dust Cap

Dust Plug

BODY / HOSE SIZE	DUST PLUG PART NUMBER	QTY	DUST CAP PART NUMBER	QTY
1/4	**108640**	5	**108645**	5
3/8	**108641**	5	**108646**	5
1/2	**108642**	5	**108647**	5
3/4	**108643**	5	**108648**	5
1	**108644**	5	**108649**	5

BALL SWIVEL AIR HOSE CONNECTORS & FITTINGS

Used between tool and air supply hose.

- Eliminates kinking and twisting.
- Increase tool maneuverability - increased production capacity.
- Minimizes user fatigue - increases worker safety.
- Extend the life of hose - minimizes cost.
- Lightweight - connector portion is plated hardened steel, fitting is brass.
- No additional fittings needed.
- 360° rotation.
- Provides a 20 - 25% greater bend angle.
- Ball swivels provide a more natural range of motion.

Industrial Interchange

Conversion

Barbed

SIZE	PART NUMBER	DESCRIPTION (COUPLER STYLE)
1/4 Body x 1/4 MPT	**108630**	Industrial Interchange Connector
1/4 Body x 1/4 MPT	**108631**	Tru-Flate Connector
1/4 Body x 1/4 MPT	**108632**	ARO Connector
1/4 FPT x 1/4 MPT	**108633**	Conversion Fitting
1/4 Barb x 1/4 MPT	**108634**	Barbed Fitting
5/16 Barb x 1/4 MPT	**108635**	Barbed Fitting
3/8 Barb x 1/4 MPT	**108636**	Barbed Fitting

HYDRAULIC QUICK COUPLINGS

Used to connect and disconnect fluid transfer lines primarily used with hydraulic fluid, chemicals, water, steam, and some gases.

- Double shut-off minimizes fluid loss.
- Coupler and nipple both have shut-off valves to ensure automatic opening and closing.
- Ideal for frequently connected and disconnected lines.
- Meets dimensional requirements for Series B in ISO 7241-1.
- Buna-N-seals w/Teflon back up rings.
- Hardened steel provides maximum resistance to damage from hydraulic and mechanical shock.
- Industrial interchange design.
- Used on construction equipment, machinery, snow plows, dump trucks, refuse hauling.
- Temperature range: -40° to +250°F.

Coupler

Nipple

		COUPLERS		NIPPLES		
BODY/HOSE SIZE	THREAD SIZE NPTF	PART NUMBER	PARKER NUMBER	PART NUMBER	PARKER NUMBER	WORKING PRESSURE
1/4	1/4-18	**108620**	H2-62	**108685**	H2-63	5,000
3/8	3/8-18	**108617**	H3-62	**108667**	H3-63	4,000
1/2	1/2-14	**108621**	H4-62	**108686**	H4-63	4,000
3/4	3/4-14	**108622**	H6-62	**108687**	H6-63	2,500
1	1-11-1/2	**108623**	H8-62	**108688**	H8-63	2,000

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QUICK COUPLINGS CROSS REFERENCE

QUICK COUPLINGS CROSS REFERENCE

Part Number	Acme	Dill	Amflo	ARO	Balkamp NAPA	Camel	Coilhose	Foster	Hansen	Lincoln	Milton	Parker	Schrader	TRW	Tru-flate
100776	--	--	C37, C45	210-210	--	61-527, 61-581	--	--	--	--	776	B-50	--	--	13-324/325
100794	--	--	C27	LNCM22-000	90-645	61-486	--	--	--	--	794	--	--	--	13-424/425
101803	A944B	D15-C	C8	TFCF32-000	90-686	61-476	592	--	--	--	1803	15C	3521	670065	13-610/611
101804	--	--	C7	TFCM32-000	90-684	61-478	--	--	--	--	1804	--	--	--	13-602
101809	A944N	D-0E	CP7	TFPM32-000	90-685	61-480	5903	--	--	--	1809	0E	3519	670059	12-602/603
101810	A945N	--	CP8	TFPF32-000	90-687	61-481	5904	--	--	--	1810	1E	3520	670061	12-610
101834	--	--	C25-02	--	90-625	--	--	--	--	--	1834	--	--	--	--
101837	--	10022	CP25	23902-310	90-683	61-484	5801	42-4	42	640106	1837	H2E	3542	670069	12-526/527, 12-525
101839	--	10020	CP2502	23903-210	90-605	--	5803	40-4	40	640104	1839	H03	--	--	--
100785, 108600	A925B	D-13	C2	--	90-608	61-523	160	TF3003	--	--	785	13	3504	670035	13-134
101805, 108601	A940B	D-15	C6	--	90-654	61-553	590	--	--	--	1805	15	3516	670066	13-612
108602	A942B	D-17	C10	23104-400	90-662	61-563	120	5205	520	652008	1815	17	3512	670067	13-712
100786, 108603	A926B	D-12	C1	--	90-610	61-524	162	TF3101	--	--	786	12	3503	670049	13-124
108604	--	--	C5	--	90-656	61-554	591	--	--	--	1806	14	3515	--	13-604
108605	--	D-16	C9	23104-014	90-664	61-564	122	5305	530	651008	1816	16	3511	--	13-704
100715, 108606	A937B	10002	C20	23101-200	90-670	61-573	150	3003	3000/1000	632004	715	23	5142-12	670039	13-536
101835, 108607	--	10017	C26	23103-300	90-680	61-482	580	4204	4200	642006	1835	25	5341	670072	13-712
108608	A942B	D-17	C10	23140-400	90-662	61-563	120	5205	520	652008	1815	17	3512	670067	13-224
100716, 108609	A938B	1003	C21	23102-012	90-672	61-574	152	3103	3100/1000	611004	716	22	5141-12	670052	13-526
108610	--	10018	C25	23103-313	90-682	61-483	581	4304	4300	641006	1836	24	6006-12	--	13-526
108611	--	D-16	C9	23104-014	90-664	61-564	122	5305	530	651008	1816	16	3511	--	13-704
108612	--	1004	C20-42	23102-022	90-671	61-575	153	3603	3600/1600	637004	717	20-3B	4204-12	--	13-264
108613	--	--	--	--	--	--	--	--	--	--	--	B-33	--	--	--
108614	--	--	--	--	--	--	--	--	--	--	--	B-32	--	--	--
100775, 108615	A918B	8888	C38	210	90-612	61-526	140	210-3003	102	862	775	53	3526	670034	13-334
108616	--	--	C37	210-012	90-614	61-527	142	210-3103	103	--	--	52	3525	--	13-324
108617	--	--	--	--	--	--	--	--	--	--	--	H3-62	--	--	--
100790, 108618	A935B	10023	C28	--	90-644	61-548	--	--	--	815	790	73	3528	670038	13-434
100784, 108650	A929N	D-3C	CP2	--	90-626	61-539	1602	TF11	--	--	784	3C	3507	670050	12-134
101808, 108651	A941N	D-3E	CP6	--	90-660	61-559	5902	--	--	--	1808	3E	3518	670062	12-612
108652	--	--	--	--	--	--	--	--	--	--	--	3F	--	--	--
100783, 108653	A928N	D-2C	CP1	--	90-624	61-538	1601	TF10	--	--	783	2C	3506	670036	12-124
108654	A940N	D-2E	CP5	--	90-658	61-558	5901	--	--	--	1807	2E	3517	670060	12-604
108655	--	--	--	--	--	--	--	--	--	--	--	2F	--	--	--
100728, 108656	A911N	10009	CP20	23901-200	90-676	61-579	1502	11-3	11	630204	728	H3C	5139-11	670047	12-234
108657	--	10021	CP26	23903-300	90-681	61-485	5802	43-4	43	640206	1838	H3E	3543	--	12-536
108658	A943N	D-3F	CP10	--	90-668	61-569	1202	55-5	55	650208	1818	H3F	3514	670064	12-712
100727, 108659	A910N	10010	CP21	23902-210	90-674	61-578	1501	10-3	10	630104	727	H2C	5138-11	670032	12-712
108660	--	10022	CP25	23903-310	90-683	61-484	5801	42-4	42	640106	1937	H2E	3542	670069	12-224
108661	A942N	D-2F	CP9	23904-410	90-666	61-568	1201	54-5	54	650108	1817	H2F	3513	670063	12-526
108662	--	10011	CP21-42	23902-220	--	61-576	1506	10-3	16	630704	736	H8C	5223-11	--	12-264
100778, 108665	A916N	8889	CP38	2609	90-620	61-529	1402	210-11	162	13331	778	A3C	3530	670048	12-334
100777, 108666	A914N	8891	CP37	2608	90-618	61-528	1401	210-10	163	13329	777	A2C	3529	670033	12-324
108667	--	--	--	--	--	--	--	--	--	--	--	H3-63	--	--	--
100792, 108668	A934N	10025	CP28	--	90-650	61-551	1702	--	--	11661	792	L3C	3532	670051	12-434
100791, 108669	933N	10026	CP27	--	--	61-550	--	--	--	11659	791	--	3531	670037	12-424

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HOSE CLAMPS

STANDARD HOSE CLAMPS

All popular applications covered. Exceeds SAE J1508.

INTERLOCKED CONSTRUCTION
One-piece housing locks directly into band. Strengthens under tension for maximum torque application. No spot welds to rupture or corrode.

STAINLESS STEEL BAND
SAE 301 (18-8) series stainless steel band and housing for maximum corrosion protection.

WORM DRIVE
For tight, quick sealing.

SLOTTED HEX SCREW
SAE 1018 steel, case hardened, zinc plated, chromate dipped. Extra-long head for non-interference tightening. Use screwdriver, wrench, or nutdriver to tightenor loosen. 5/16 hex head.

Full 1/2 inch Wide Band

PART NUMBER	SAE SIZE	FITS HOSE ID FROM	TO	QTY
10205*	04	3/16	5/16	50
10206*	06	1/4	3/8	50
10204	06	5/16	3/8	50
10207	08	5/16	1/2	50
10208	10	3/8	5/8	50
10209	12	5/8	3/4	50
10210	16	3/4	1	50
10211	20	1	1-1/4	50
10212	24	1-1/4	1-1/2	50
10213	28	1-1/4	1-3/4	50
10214	32	1-1/2	2	50
10215	36	1-3/4	2-1/4	50
10216	40	2	2-1/2	24
10217	44	2-1/4	2-3/4	24
10218	48	2-1/2	3	24
10219	52	3	3-1/4	24
10220	56	3-1/4	3-1/2	24
10221	64	3-3/4	4	24
10222	72	4	4-1/2	24
10224	80	4-1/2	5	10
10225	88	5	5-1/2	10
10226	96	5-1/2	6	10
10223	104	6	6-1/2	10
10227	128	7	8	5
10228	152	8	9-1/2	5
10229	188	10-1/2	11-1/2	5

100% STAINLESS STEEL HOSE CLAMPS

All popular applications covered. Complete corrosion resistance.

STAINLESS STEEL BAND
SAE 301 (18-8) series stainless steel band and housing for maximum corrosion protection.

ROUNDED EDGES
Prevent cutting into hose.

WORM DRIVE
For tight, quick sealing. Extra-long head for non-interference tightening.

SLOTTED HEX SCREW
SAE 305 stainless steel. Use screwdriver, wrench, or nutdriver to tighten or loosen. 5/16 hex head.

Full 1/2 inch Wide Band

PART NUMBER	SAE SIZE	FITS HOSE ID FROM	TO	QTY
10256	06	1/4	3/8	24
10257	08	5/16	1/2	12
10258	10	3/8	5/8	24
10259	12	5/8	3/4	24
10260	16	3/4	1	12
10261	20	1	1-1/4	24
10262	24	1-1/4	1-1/2	12
10263	28	1-1/4	1-3/4	24
10264	32	1-1/2	2	12
10265	36	1-3/4	2-1/4	12
10266	40	2	2-1/2	6
10267	44	2-1/4	2-3/4	6
10268	48	2-1/2	3	12
10269	52	3	3-1/4	6
10270	56	3-1/4	3-1/2	6
10271	64	3-3/4	4	12
10272	72	4	4-1/2	6
10273	80	4-1/2	5	6
10274	88	5	5-1/2	6
10275	96	5-1/2	6	6
10276	104	6	6-1/2	6
10277	116	6-1/2	7	6
10278	128	7	8	5
10279	152	8	9-1/2	5
10280	188	10-1/2	11-1/2	5

– ASSORTMENTS AVAILABLE –

MOST POPULAR SIZES COVERAGE
Part No. 10201
100 pieces • 10 items
12124 display rack

10204 10208 10211 10215
10205 10209 10213
10206 10210 10214

Numbers in assortment

MOST POPULAR SIZES COVERAGE
Part No. 10250
88 pieces • 10 items
12124 display rack

10185 10258 10261 10265
10186 10259 10263
10256 10260 10264

Numbers in assortment

LARGER SIZES FOR COMPLETE COVERAGE
Part No. 10251
33 pieces
5 items
12125 display rack

10266 10269 10272
10268 10270

Numbers in assortment

LARGER SIZES FOR COMPLETE COVERAGE
Part No. 10203
33 pieces
5 items
12125 display rack

10216 10219 10222
10218 10220

Numbers in assortment

100% STAINLESS STEEL ASSORTMENT
Part No. 501393
67 pieces
7 items
12051 display rack

10256 10259 10263 10268
10258 10261 10265

Numbers in assortment

STANDARD ASSORTMENT
Part No. 501394
126 pieces
7 items
12051 steel tray

10205 10208 10211
10206 10209 10213

Numbers in assortment

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HOSE CLAMPS

100% STAINLESS STEEL MICRO CLAMPS

Narrow and compact for easy installation in tight locations.

- **5/16" band width.**
- **410 stainless steel 1/4" hex head screw.**
- **301 stainless steel housing and band.**

PART NUMBER	SAE SIZE	FITS HOSE ID FROM	TO	QTY
10185	004	3/16	5/16	10
10186	006	1/4	3/8	10
10187	008	5/16	1/2	10
10188	010	3/8	5/8	10
10189	012	5/8	3/4	10
10190	016	3/4	1	10
10191	020	1	1-1/4	10

Part No. 10202
72 pieces • 7 items
12124 display rack

10185 10187 10189 10191
10186 10188 10190

Numbers in assortment

LINED HOSE CLAMPS

Specially constructed lined hose clamp for silicone and other soft hoses. Inner liner prevents damage to hose.

- **Stainless steel band and liner - SAE 301 (18-8) series stainless steel band and housing for maximum corrosion protection. Rounded band edges prevent hose damage.**
- **Worm drive - For tight, quick sealing.**
- **Slotted hex screw - SAE 1018 steel, case hardened, zinc plated, chromate dipped, extra-long head for non-interference tightening.**
- **9/16" band width - 12-1/2% wider than most clamps for more sealing area.**

PART NUMBER	SAE SIZE	FITS HOSE ID FROM	TO	QTY
10285	08	5/16	1/2	12
10286	10	3/8	5/8	12
10287	12	5/8	3/4	12
10288	16	3/4	1	12
10289	20	1	1-1/4	12
10290	24	1-1/4	1-1/2	12
10291	28	1-1/4	1-3/4	12
10292	32	1-1/2	2	12
10293	36	1-3/4	2-1/4	12
10294	40	2	2-1/2	12
10295	44	2-1/4	2-3/4	12
10296	48	2-1/2	3	12

HI-TORQUE HEAVY DUTY LINER HOSE CLAMPS

Single-piece band is extended underneath the adjustment slots to protect silicone and other soft-surface materials.

- **5/8" band width.**
- **Highest strength worm-drive clamps made.**
- **3 times stronger than other clamps.**
- **Eliminates double and triple clamping.**
- **100% stainless steel - greater corrosion resistance.**

PART NUMBER	EFFECTIVE DIAMETER RANGE MINIMUM INCHES	MINIMUM MM	MAXIMUM INCHES	MAXIMUM MM	IND. NO.	QTY
102009	1	5	1-3/4	45	175	10
102010	1-1/4	32	2-1/8	54	200	10
102012	1-3/4	44	2-5/8	67	250	10
102014	2-1/4	57	3-1/8	79	300	10
102016	2-3/4	70	3-5/8	92	350	10
102017	3-1/4	83	4-1/8	105	400	2
102018	3-3/4	95	4-5/8	118	450	2
102019	4-1/4	108	5-1/8	130	500	2
102020	4-3/4	121	5-5/8	143	550	2
102021	5-1/4	133	6-1/8	156	600	2
102022	5-3/4	146	6-5/8	168	650	2
102023	6-1/4	159	7-1/8	181	700	2

CONSTANT TORQUE HOSE CLAMPS

Used to stop rupture problems or cold flow leaks on trucks, buses, heavy duty equipment, air intake and coolant connections.

- **5/8" wide 304 stainless steel lined band protects soft hose from damage.**
- **Carbon steel plated 3/8 hex head screw.**
- **Increases or decreases its diameter as system expands or contracts.**
- **Torques 50-125 inch lbs.**

PART NUMBER	EFFECTIVE DIAMETER MIN-MAX	IND. NO.	QTY
10108	9/16 - 1-1/16	9410	10
10109	11/16 - 1-1/4	9412	10
10110	1 - 1-3/4	175	1
10111	1-1/4 - 2-1/8	200	1
10112	1-3/4 - 2-5/8	250	1
10113	2-1/4 - 3-1/8	300	1
10114	2-3/4 - 3-5/8	350	1
10115	3-1/4 - 4-1/8	400	1
10116	3-3/4 - 4-5/8	450	1
10117	4-1/4 - 5-1/8	500	1
10118	4-3/4 - 5-5/8	550	1
10119	5-1/4 - 6-1/8	600	1
10120	5-3/4 - 6-5/8	650	1
10121	6-1/4 - 7-1/8	700	1
10122	6-3/4 - 7-5/8	750	1
10123	7-1/4 - 8-1/8	800	1
10124	7-3/4 - 8-5/8	850	1

T-BOLT HOSE CLAMPS

Pumps, irrigation systems, coolant systems, dairy industry, sanitary systems, ducting, lab equipment.

- **3/4" wide 301 stainless steel band .025 thick.**
- **1/4-28 T-Bolt and lock nut steel plated.**
- **Welded liner.**

PART NUMBER	EFFECTIVE DIAMETER MIN-MAX	SAE SIZE	
10125	2 - 2-5/16	36	2
10126	2-1/4 - 2-9/16	44	2
10127	2-1/2 - 2-13/16	52	2
10128	2-3/4 - 3-1/16	60	2
10129	3 - 3-5/16	68	2
10130	3-1/4 - 3-9/16	76	2
10131	3-1/2 - 3-13/16	84	2
10132	4 - 4-5/16	100	2
10133	4-1/2 - 4-13/16	116	2
10134	5 - 5-5/16	132	2
10135	5-1/2 - 5-13/16	148	2
10136	6 - 6-5/16	164	2
10137	6-1/2 - 6-13/16	180	2
10138	7 - 7-5/16	196	2
10139	7-1/2 - 7-13/16	212	2
10140	8 - 8-5/16	228	2
10141	8-1/2 - 8-13/16	244	2

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HOSE CLAMPS

100% STAINLESS STEEL MAKE-A-CLAMP®

A unique, multi-purpose "fix-it-kit" for farms, maintenance & repair shops, off road vehicles, motor homes, trucks & buses, construction equipment, and marine.

- **Reduces inventory-broadens coverage.**
- **Nothing else like it.**
- **Adjustable in diameter from 2 inches to many feet.**
- **Saves costly time-quickly makes exact size.**

Each kit contains:
1. Slotted fasteners.
2. Screw housing assemblies.
3. Band splices.
4. Roll of perforated band.

MAK-A-CLAMP KITS & REFILLS

PART NUMBER	KIT CONTAINS	PART NUMBER	REFILL CONTENTS
10240	Shop Kit - containing 50 ft. (15.2m) band, 10 adjustable fasteners* and 5 band splices.	**10242**	box of 10 adjustable fasteners*.
10241	Tool Box Kit - with 8.5 ft. (2.6m) band, 3 adjustable fasteners*, 1 band splice.	**10243**	box of 10 band splices.

Mak-A-Clamp® is a registered trademark.

*** Each adjustable fastener includes 1 slotted fastener and 1 screw housing assembly.**

SPRING ACTION

Use on rubber or plastic hose connections.

- **Heat treated spring steel, phosphate and paint.**
- **Easy to use - just squeeze together to open, let go to close.**
- **No special tools needed - use ordinary wide nose pliers.**

PART NUMBER	HOSE O.D.	COLOR	WIDTH	QTY
102150	3/8	Black	5/16	50
102151	7/16	Green	5/16	50
102152	1/2	Red	5/16	50
102153	9/16	Black	5/16	50
102154	5/8	Olive	5/16	50
102155	11/16	Red	5/16	50
102156	3/4	Black	3/8	50

TYPE "G" FUEL INJECTION

Use on rubber or plastic hose connections.

- **Full 360° liner - unbroken inner band.**
- **Required for fuel injection hoses.**
- **Rounded edges, with hex slotted screw head.**
- **Zinc plated.**

PART NUMBER	HOSE I.D. MM	HOSE I.D. INCHES	QTY
10244	4mm	5/32	12
10245	5.6mm	7/32	12
10297*	6.3mm	1/4	12
10246	7.2mm	9/32	12
10298	8mm	5/16	12
10299	9.6mm	3/8	12

*** Zinc and Black Dichromate**

Part No. 10300
36 pieces • 6 items
12032 plastic tray

10244 10297
10245 10298
10246 10299

Numbers in assortment

"2" EAR CLAMPS

A medium pressure clamp used on rubber hose, plastic tubing, coaxial and electrical cable, rope, etc.

PART NUMBER	NOMINAL SIZE	WIDTH (INCHES)	QTY
102175	5/32	.138	25
102176	11/64	.138	25
102177*	3/16	.197	25
102178*	1/4	.236	25
102179*	5/16	.276	25
102180*	3/8	.276	25
102182*	1/2	.276	25
102183*	9/16	.295	25
102184	19/32	.315	25
102185*	5/8	.315	25
102186*	3/4	.335	25
102187	13/16	.354	25
102188*	7/8	.354	10
102189*	15/16	.394	10
102190*	1	.394	10
102191	1-1/16	.394	10
102192	1-1/8	.394	10
102193	1-3/16	.394	10
102194	1-5/16	.394	10
102195	1-7/16	.394	10
102196	1-1/2	.394	10
102197	1-5/8	.394	10
102198	1-3/4	.394	10

*** Contained in Assortment**

Note: When ordering your 2-Ear Clamps select nominal clamp size nearest to, but always larger than, O.D. of material to be clamped after insert has been fitted.

- **One piece design offers a positive tamperproof seal without damage to hose.**
- **Widely used for maintenance and OEM applications, and on heavily vibrating equipment.**
- **Suitable for low pressure hydraulic applications.**
- **Zinc plated 1010 carbon steel.**
- **Assures adequate closure and compensates for tolerance variations in hose sizes.**

Part No. 501559
156 pieces • 12 items
12051 steel tray

102001 102183
102177 102185
102178 102186
102179 102188
102180 102189
102182 102190

Numbers in assortment

NORMA TORRO® (European Style)

Used for fuel, vacuum, water, emission and heater hoses.

- **Short housing saddle for a smooth underside ensuring high sealing efficiency.**
- **Stainless steel band & housing, Zinc & Yellow steel screw.**
- **Unique off set non-welded design of the housing provides resistance to over-tightening damage to the hose.**
- **Original equipment on both domestic and import vehicles.**
- **DIN 3017.**

PART NUMBER	CLAMPING RANGE MIN - MAX	CLAMPING RANGE MIN - MAX	HEX SIZE	BAND WIDTH	QTY
421205	8mm - 12mm	5/16 - 1/2	5mm*	8mm (5/16)	12
421206	10mm - 16mm	3/8 - 5/8	5mm*	8mm (5/16)	12
421207	12mm - 18mm	1/2 - 3/4	5mm*	8mm (5/16)	12
421208	8mm - 16mm	5/16 - 5/8	6mm	9mm (11/32)	12
421209	12mm - 20mm	1/2 - 3/4	6mm	9mm (11/32)	12
421210	16mm - 25mm	5/8 - 1	6mm	9mm (11/32)	12
421211	20mm - 32mm	3/4 - 1-1/4	6mm	9mm (11/32)	6
421212	25mm - 40mm	1 - 1-5/8	6mm	9mm (11/32)	6
421213	30mm - 45mm	1-3/16 - 1-3/4	6mm	9mm (11/32)	6
421214	32mm - 50mm	1-1/4 - 2	6mm	9mm (11/32)	6
421215	40mm - 60mm	1-5/8 - 2-3/8	6mm	9mm (11/32)	6
421216	50mm - 70mm	1-31/32 - 2-3/4	6mm	9mm (11/32)	6
421217	60mm - 80mm	2-3/8 - 3-1/8	6mm	9mm (11/32)	6
421218	70mm - 90mm	2-3/4 - 3-9/16	6mm	9mm (11/32)	6

*** Phillips Hex Drive**

Part No. 501508
62 pieces • 11 items
12050 steel tray

421212 421215 421211 421207
421213 421209 421205 421208
421214 421210 421206

Numbers in assortment

Flexible Nut Driver
For 6mm hex fits
European Style Hose Clamps
No.'s 421208 thru 421215
Part No. 213135

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HOSE CLAMPS, HOSE FERRULES & TOOLS

STEPLESS® EAR CLAMPS

Used on thin wall hose or tubing, perfect for silicon, vinyl, polyurethane, nylon braided, synthetic hose, polyethylene pipe, fuel injection lines, water pipingand thermo plastic material.

- 360° seal - prevents leaks - tongue & groove design.
- No gaps, steps, or non-bridged sections.
- Smooth inner band eliminates gaps, and pinching on soft hose and tubing.
- Reinforced dimple in ear creates spring like action for vibration resistance.
- Breathes without loosening during temperature changes.
- No retighten needed.
- One ear design - allows easy accessibility.
- Stainless steel construction provides corrosion resistance.
- Not reusable.
- Installed with pinches on B12-8 #102001 or # 102002.
- Low pressure applications up to 500 psi max.

PART NUMBER	SIZE (MM)	NOMINAL SIZE (FRACTIONAL)	BAND WIDTH (MM)	BAND THKNS (MM)	QTY
102160	6.5	1/4	5.0	.5	25
102161	8	5/16	5.0	.5	25
102170	8.7	11/32	5.0	.5	25
102162	9.5	3/8	5.0	.5	25
102163	11.3	7/16	5.0	.5	25
102164	13.3	1/2	7.0	.6	25
102171	13.8	17/32	7.0	.6	25
102165	14.5	9/16	7.0	.6	25
102166	15.7	5/8	7.0	.6	25
102167	19.8	3/4	7.0	.6	20
102168	22.6	7/8	7.0	.6	20
102169	25.6	1	7.0	.6	20

Note: Select nominal clamp size nearest to, but always larger than, O.D. of material to be clamped.

Part No. 501700
115 pieces • 10 items
12051 steel tray

102160	102164	102168
102161	102165	102169
102162	102166	
102163	102167	

Numbers in assortment

Part No. 501701
116 pieces • 10 items
12051 steel tray
(Includes #102001 Pincer)

102160	102164	102168
102161	102165	102169
102162	102166	
102163	102167	

Numbers in assortment

PINCERS

Heavy Duty Side Jaw Pincers

This dual purpose, side jaw design allows clamps to be applied or removed in confined areas with pincers held parallel to the hose. Also used like standard pincers.

Part No. 102002

Heavy Duty Straight Jaw Pincers

Part No. 102001

BRASS HOSE FERRULES

Economical and dependable brass ferrules to make custom hose assemblies.

PART NUMBER	MILTON NUMBER	IND. NUMBER	HOSE OD (INCHES)	QTY
101652	1654-2	7324	1/2	10
101653	1654-3	7325	9/16	10
101654	1654-4	7326	19/32	10
101655	1654-5	7327	5/8	10
101656	1654-6	7328	21/32	10
101657	1654-7	7329	11/16	10
101658	1654-8	7330	23/32	10
101659	1654-9	7331	3/4	10

Note: Because rubber hose tolerances vary up to +/-1/32" on the ID and OD, it is necessary to fit ferrules and fittings to each individual hose being assembled.

HOSE FERRULE CRIMPING TOOL

This tool makes professional quality hose assembly fast and easy.

Part No. 101626

- **Crimps ferrules on hose ranging from 1/4" single braid to 3/8" two braid hose.**
- **Made of high strength ductile iron casting has 5 hardened steel ribbed dies ready fir instant use.**
- **Can be bench-mounted or used as a portable tool at the job site.**

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IDENTIFICATION GUIDE

PIPE FITTINGS

A. No inside or outside beveling.
B. Slight taper on threads.
C. Square Cut.

INVERTED FLARE

A. Raised cone seat in fitting body.
B. Tubing is flared.
C. Male nut has 45° internal seat.

SAE 45° FLARE

A. Tapered nose on fitting body.
B. Tubing is flared.
C. Female nut has 45° seat.

COMPRESSION

A. Double beveled separate sleeve.
B. Straight seat in fitting body.
C. Female nut has beveled seat.
D. No flare on tubing.

DOUBLE COMPRESSION

A. Male nut end acts as half sleeve.
B. Tapered seat in fitting body.
C. Tubing is slightly flared.

SELFALIGN®

A. Single bevel sleeve with flange.
B. Similar to Compression fitting, except for sleeve.
C. No flare on tubing.

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QUICK VISUAL REFERENCE

PIPE	PIPE	INVERTED FLARE	INVERTED FLARE	SAE 45° FLARE
Cap	45° Street Elbow	Nuts: Steel & Brass	Female Branch Tee	Short & Long Nut
Square Plug	Elbow	Long Nut, Steel	Plug, Steel	Union
Hex Head Plug	Street Tee	Union	Male Flare Connector	Male Connector
Socket Plug	Male Branch Tee	Male Connector		Female Connector
Adapter Bushing	Tee	Female Connector		45° Male Elbow
Reducing Bushing	Cross	45° Male Elbow		Union Elbow
Coupling	PIPE THREAD SIZES	Union Elbow		90° Male Elbow
Reducing Coupling	1/8”	90° Male Elbow		90° Female Elbow
Hex Nipple	1/4”	90° Female Elbow		Union Tee
Close Nipple	3/8”	Union Tee		Male Run Tee
Long Nipple	1/2”	Male Run Tee		Male Branch Tee
90° Street Elbow	3/4”	Male Branch Tee		

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QUICK VISUAL REFERENCE

COMPRESSION	DOUBLE SELFALIGN ®	AIR BRAKE COMPRESSION	AIR BRAKE NYLON	NYLON
Sleeve	Sleeve	Male Nut	Sleeve	Male Run Tee
Nut	Nut	Male Connector	Insert	Male Branch Tee
Long Nut	Nut & Sleeve Assembly	90° Male Elbow	Nut	
Union	Union		Union	
Male Connector	Male Connector		Bulkhead Union	
Female Connector	Female Connector		Male Connector	
Union Elbow	Union Elbow		Female Connector	
90° Male Elbow	Male Elbow		45° Male Elbow	
90° Female Elbow	Union Tee		Union Elbow	
Union Tee			90° Male Elbow	
Male Run Tee			90° Female Elbow	
Male Branch Tee			Union Tee	

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QUICK VISUAL REFERENCE

AIR BRAKE COPPER	FASTUBE INSTANT	FULLER TRANSMISSION	HOSE FITTINGS	BARB
Sleeve	Plastic Plug	Sleeve	Male Adapter	Union
Nut	Union	Nut	Male Pipe End	Male Connector
Union	Bulkhead Union	Union	Male Pipe 90° Elbow	Female Connector
Male Connector	Male Connector	Male Connector	Male Straight Thread Connector	90° Male Elbow
45° Male Elbow	Female Connector	Male Elbow	Inverted Male Connector	90° Female Elbow
Union Elbow	Union Elbow	Collet	Inverted Male Elbow Swivel	Union Tee
90° Male Elbow	90° Male Elbow	Insert	Hose Splicer	Union Elbow
90° Female Elbow	Union Tee		SAE 45° Flare Connector	
Union Tee	Male Run Tee		Reusable Male Rigid Fitting	
Male Branch Tee	Male Branch Tee		Reusable Splicer	
Male Run Tee	Tube End Reducer			
	Plastic Sleeve			

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BRASS FITTING ASSORTMENTS

COMBINATION BRASS FITTINGS

- FREE Brass Identification Kit.
- Stock Organizer for parts location.
- Labels for quick identification.
- Tube Fittings Guide - contains valuable information about the tube fittings most frequently used.
- Brass Fitting Gauge.

Part No. 501062
382 pieces • 105 items
12020 18 drawer cabinet
Numbers in assortment

STYLE FITTING	SIZES
	Compression 3/16 tube - 1/8 pipe through 3/8 tube - 1/4 pipe
	Inverted Flare 3/16 tube - 1/8 pipe through 3/8 tube - 1/4 pipe
	Pipe 1/8 pipe through 1/2 pipe
	SAE 45° Flare 1/4 tube - 1/8 pipe through 1/2 tube - 3/8 pipe
	Barbed Connector 5/16 tube - 5/16 hose

COMBINATION BRASS FITTINGS

Tube Sizes: 3/16" through 3/8"
Includes Inverted Flare, SAE 45° Flare, Compression, Pipe fitings and Drain cocks.
Part No. 508001
226 pieces • 84 items • 12017 steel tray

508101	508115	508128	508144	508159	508183	508200	508226
508102	508116	508129	508145	508160	508185	508201	508227
508103	508117	508132	508147	508171	508187	508202	508233
508104	508118	508133	508150	508172	508190	508203	508234
508106	508119	508134	508151	508173	508191	508215	508235
508107	508120	508135	508152	508174	508193	508216	508244
508108	508121	508138	508153	508176	508194	508217	508245
508110	508122	508139	508155	508177	508195	508219	
508112	508123	508140	508156	508178	508196	508221	
508113	508126	508141	508157	508179	508197	508223	
508114	508127	508143	508158	508182	508198	508225	

Numbers in assortment

AUTOMOTIVE BRASS FITTINGS

Sizes: 1/8" through 5/16"
Part No. 508017
108 pieces • 19 items • 12039 steel tray

508120	508125	508128	508133	508138	508215	508245
508121	508126	508131	508134	508139	508216	
508122	508127	508132	508137	508140	508244	

Numbers in assortment

Sizes: 3/16" through 3/8"
Part No. 508002
118 pieces • 45 items • 12040 steel tray

508101	508108	508120	508128	508138	508173	508217	508227
508102	508109	508121	508129	508139	508182	508219	508244
508103	508112	508122	508132	508140	508183	508221	508245
508104	508113	508123	508133	508141	508185	508223	
508106	508114	508126	508134	508171	508215	508225	
508107	508115	508127	508135	508172	508216	508226	

Numbers in assortment

SAE 45° FLARE FITTINGS

Sizes: 1/8" through 3/8"
Part No. 501034
98 pieces • 24 items • 12017 steel tray

508170	508173	508177	508182	508185	508191	508195	508200
508171	508175	508178	508183	508189	508192	508196	508201
508172	508176	508181	508184	508190	508193	508197	508202

Numbers in assortment

MECHANICS BRASS FITTINGS

The fastest moving fittings.

Sizes: 3/16" through 3/8"
Part No. 508901
175 pieces • 19 items • 12040 steel tray

508120	508125	508128	508133	508138	508244	508262
508121	508126	508131	508134	508139	508245	
508122	508127	508132	508137	508140	508261	

Numbers in assortment

BRASS PIPE FITTINGS

Sizes: 1/8" through 1/2"
Includes plugs, caps and couplings
Part No. 501699
78 pieces • 19 items • 12017 steel tray

508215	508218	508235	508262	508910	508913	510182
508216	508233	508236	508263	508911	510180	
508217	508234	508261	508264	508912	510181	

Numbers in assortment

Part No. 501023
108 pieces • 24 items • 12017 steel tray

508215	508218	508221	508226	508229	508232	508237	508240
508216	508219	508222	508227	508230	508233	508238	508241
508217	508220	508225	508228	508231	508234	508239	508242

Numbers in assortment

INVERTED FLARE FITTINGS

(SMALL & LARGE DIAMETER) Sizes: 1/8" through 1/2"
Part No. 501035
175 pieces • 32 items • 12062 steel tray

508101	508105	508112	508117	508122	508832	508839	508844
508102	508107	508113	508118	508123	508834	508840	508845
508103	508108	508115	508120	508830	508837	508842	508846
508104	508111	508116	508121	508831	508838	508843	508847

Numbers in assortment

COMPRESSION FITTINGS

(SMALL DIAMETER) Sizes: 1/8" through 5/16"
Part No. 508008
156 pieces • 22 items • 12017 steel tray

508125	508128	508133	508138	508143	508150	508158	508169
508126	508131	508134	508139	508144	508151	508159	
508127	508132	508137	508140	508145	508152	508168	

Numbers in assortment

(LARGE DIAMETER) Sizes: 3/8" through 1/2"
Part No. 508009
119 pieces • 15 items • 12050 steel tray

508129	508136	508147	508154	508801
508130	508141	508149	508160	508806
508135	508142	508153	508800	508811

Numbers in assortment

(SMALL & LARGE DIAMETER) Sizes: 1/8" through 1/2"
Part No. 501019
164 pieces • 32 items • 12062 steel tray

508125	508129	508133	508137	508141	508145	508151	508159
508126	508130	508134	508138	508142	508147	508152	508160
508127	508131	508135	508139	508143	508149	508153	508800
508128	508132	508136	508140	508144	508150	508154	508801

Numbers in assortment

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BRASS FITTINGS

BRASS PIPE FITTINGS

Applications:
Low to Medium pressure; hazardous fuels, LP & natural gas, air and water. Instrumentation, hydraulic systems, refrigeration.
Advantages:
Dryseal threads. Large range of styles and sizes.
Disadvantages:
Not a good seal in severe vibration applications. Not as versatile as tubing. Pipe requires threading.

Pressure: To 1200 PSI.
Used with: Brass, iron, bronze pipe.
Assembly Notes:
1. Use sealing compound on threads for lubrication.
2. Tighten a minimum of 2-1/2 turns past hand tight.
Identifying characteristics:
Threaded areas on pipes are characteristically tapered.

SQUARE HEAD PLUG

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508215	3151X2	1/8	10
508216	3151X4	1/4	10
508217	3151X6	3/8	5
508218	3151X8	1/2	5

ADAPTER BUSHING

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD (MALE X FEMALE)	QTY
508380	3200X2	1/8 x 1/8	10
508381	3200X4X2	1/8 x 1/4	10
508382	3200X4	1/4 x 1/4	5
508383	3200X6X2	1/8 x 3/8	5
508384	3200X6X4	1/4 x 3/8	5
508385	3200X6	3/8 x 3/8	5
508387	3200X8X6	3/8 x 1/2	1
508388	3200X8	1/2 x 1/2	1
508389	3200X12X8	1/2 x 3/4	1

MALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508285	3600X2	1/8	5
508286	3600X4	1/4	5
508287	3600X6	3/8	5
508919	3600X8	1/2	1

CAP

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
510180	3129X2	1/8	5
510181	3129X4	1/4	5
510182	3129X6	3/8	5
510190	--	1/2	2

HEX HEAD PLUG

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508261	3152X2	1/8	10
508262	3152X4	1/4	10
508263	3152X6	3/8	5
508264	3152X8	1/2	5
510183	3152X12	3/4	2

REDUCING BUSHING

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD (MALE X FEMALE)	QTY
508219	3220X4X2	1/4 x 1/8	10
508220	3220X6X2	3/8 x 1/8	10
508221	3220X6X4	3/8 x 1/4	10
508222	3220X8X2	1/2 x 1/8	5
508223	3220X8X4	1/2 x 1/4	5
508224	3220X8X6	1/2 x 3/8	5
508199	3220X12X6	3/4 x 3/8	1
508214	3220X12X8	3/4 x 1/2	1

TEE

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508942	3700X2	1/8	5
508943	3700X4	1/4	5
508944	3700X6	3/8	1
508945	3700X8	1/2	1

SOCKET HEAD PLUG

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
510350	--	1/8	25
510351	--	1/4	10
510352	--	3/8	10
510353	--	1/2	10

REDUCING COUPLING

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508910	3300X4X2	1/4 x 1/8	5
508911	3300X6X2	3/8 x 1/8	5
508912	3300X6X4	3/8 x 1/4	5
508913	3300X8X6	1/2 x 3/8	5

REF. SAE NO. 130138

COUPLING

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508233	3300X2	1/8 x 1/8	10
508234	3300X4	1/4 x 1/4	10
508235	3300X6	3/8 x 3/8	5
508236	3300X8	1/2 x 1/2	5
508956	3300X12	3/4 x 3/4	5

LONG NIPPLE

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD (MALE X FEMALE)	QTY
508231	3327X2	1/8 x 1-1/2	10
508232	3327X4	1/4 x 1-1/2	10
508923	3327X6	3/8 x 1-1/2	5
508924	3328X2	1/8 x 2	5
508925	3328X4	1/4 x 2	5
508926	3328X6	3/8 x 2	5
508927	3328X8	1/2 x 2	5
510184	3329X2	1/8 x 2-1/2	5
510185	3329X4	1/4 x 2-1/2	5
508928	3330X2	1/8 x 3	5
508929	3330X4	1/4 x 3	5
508930	3330X6	3/8 x 3	1
508931	3330X8	1/2 x 3	1

HEX NIPPLE

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508229	3325X2	1/8 x 1/8	10
508916	3325X4X2	1/4 x 1/8	10
508230	3325X4	1/4 x 1/4	10
508917	3325X6X2	3/8 x 1/8	5
508918	3325X6X4	3/8 x 1/4	5
508920	3325X6	3/8 x 3/8	5
508921	3325X8	1/2 x 1/2	5

CLOSE NIPPLE

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508225	3326X2	1/8	10
508226	3326X4	1/4	10
508227	3326X6	3/8	5
508228	3326X8	1/2	5
508915	3326X12	3/4	5

90° STREET ELBOW

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508237	3400X2	1/8	5
508932	3400X4X2	1/4F x 1/8M	5
508238	3400X4	1/4	5
508933	3400X6	3/8	1
508934	3400X8	1/2	1

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BRASS FITTINGS

BRASS PIPE FITTINGS

STREET TEE

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508947	3750X2	1/8	5
508948	3750X4	1/4	5
508949	3750X6	3/8	1
508950	3750X8	1/2	1

CROSS

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508952	3950X2	1/8	5
508953	3950X4	1/4	5
508954	3950X6	3/8	1
508955	3950X8	1/2	1

45° STREET ELBOW

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508239	3350X2	1/8	5
508240	3350X4	1/4	5
508936	3350X6	3/8	1
508937	3350X8	1/2	1

ELBOW

PART NUMBER	INDUSTRY NUMBER	PIPE THREAD	QTY
508241	3500X2	1/8	5
508242	3500X4	1/4	5
508939	3500X6	3/8	1
508940	3500X8	1/2	1

INVERTED FLARE TUBE FITTINGS

Applications:
Where vibration is a factor; automotive brake, fuel, and oil lines. Also air, water, gases and hazardous chemicals.

Advantages:
Low cost and reusable. Seats and threads protected. Short nut for tight spaces. Excellent vibration resistance.

Disadvantages:
Tubing must be flared.

Pressure: To 2000 PSI, depending on size and tubing.

Used with: Tubing that can be flared; copper, brass, aluminum, steel, and Bundy tubing.

Assembly Notes:
1. Use 45° flaring tool on squarely cut tubing.
2. Wrench tighten 1/6th turn past solid feel.

Identifying characteristics:
External threads on nuts. Flared tubing.

90° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508836	402X2	1/8	1/8	20
508112	402X3	3/16	1/8	20
508113	402X4	1/4	1/8	20
508837	402X4X4	1/4	1/4	20
508114	402X5	5/16	1/8	20
508838	402X5X4	5/16	1/4	20
508115	402X6	3/8	1/4	10
508839	402X6X6	3/8	3/8	10
510198	402X8X4	1/2	1/4	10
508840	402X8	1/2	3/8	10
508841	402X8X8	1/2	1/2	10

MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508831	202X2	1/8	1/8	20
508106	202X3	3/16	1/8	20
508107	202X4	1/4	1/8	20
508832	202X4X4	1/4	1/4	20
508108	202X5	5/16	1/8	20
508109	202X5X4	5/16	1/4	20
508833	202X6X2	3/8	1/8	10
508110	202X6	3/8	1/4	10
508834	202X6X6	3/8	3/8	10
510202	202X8X4	1/2	1/4	5
508111	202X8	1/2	3/8	10
508835	202X8X8	1/2	1/2	10
510204	202X10	5/8	1/2	2
510205	202X12	3/4	3/4	2

STANDARD NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508830	100X2	1/8	20
508101	100X3	3/16	20
508102	100X4	1/4	20
508103	100X5	5/16	20
508104	100X6	3/8	10
508105	100X8	1/2	10

UNION

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510187	302X2	1/8	10
508120	302X3	3/16	20
508121	302X4	1/4	20
508122	302X5	5/16	20
508123	302X6	3/8	10
508842	302X8	1/2	10

STEEL NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510191	105X2	1/8	5/16-28	10
508375	105X3	3/16	3/8-24	10*
508376	105X4	1/4	7/16-24	10*
508377	105X5	5/16	1/2-20	10*
510192	105X6	3/8	5/8-18	10
510194	105X8	1/2	3/4-18	5
510195	105X10	5/8	7/8-18	2

FEMALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508843	252X3X2	3/16	1/8	20
508844	252X4X2	1/4	1/8	20
508845	252X5X2	5/16	1/8	20
508846	252X6X4	3/8	1/4	10
508847	252X8X6	1/2	3/8	10

FEMALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510375	652X3	3/16	1/8	1

MALE RUN TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510366	752X4	1/4	1/8	2

45° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508116	352X3	3/16	1/8	20
508117	352X4	1/4	1/8	20
508118	352X5	5/16	1/8	20
508119	352X6	3/8	1/4	10
510196	352X8	1/2	3/8	5

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BRASS FITTINGS

INVERTED FLARE TUBE FITTINGS

MALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510370	602X3	3/16	1/8	2
510371	602X4	1/4	1/8	2
510372	602X5	5/16	1/8	2
510373	602X6	3/8	1/4	2
510374	602X8	1/2	3/8	1

UNION TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510188	702X3	3/16	5
510189	702X4	1/4	5

UNION ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510355	502X4	1/4	2

STEEL PLUG

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	THREAD	QTY
508265	131X3	3/16	3/8-24	10
508266	131X4	1/4	7/16-24	10
508267	131X5	5/16	1/2-20	10
508268	131X6	3/8	5/8-18	10

LONG STEEL NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	THREAD	QTY
508378	7896X3	3/16	3/8-24	10*
508379	7896X4	1/4	7/16-24	10*

NOTE: Hydraulic brake fittings are located in section H15.

* Steel nut and Long steel nut sizes 3/16, 1/4, & 5/16 are available in packages of 10 each, as well as 25 each.

90° FEMALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510359	452X3	3/16	1/8	2
510360	452X4	1/4	1/8	2
510361	452X5	5/16	1/8	2
510362	452X6	3/8	1/4	2

MALE FLARE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	HOSE/TUBE SIZE	THREAD	QTY
508269	05705B-1560	5/16 x 5/16	1/2-20	5

SAE 45° FLARE TUBE FITTINGS

Applications:
Air, water, oil, gas, and hazardous liquids. Refrigeration, power steering, hydraulic & pneumatic systems.

Advantages:
Low cost & reusable. Forged nut for refrigeration. Vibration resistant.

Disadvantages:
Tubing must be flared. Seat body threads are exposed.

Pressure: To 2000 PSI, depending on size and tubing.

Used with: Tubing that can be flared; copper, brass steel, aluminum, plastic and Bundy tubing.

Assembly Notes:
1. Use 45° flaring tool on squarely cut tubing.
2. Wrench tighten 1/6th turn past solid feel.

Identifying characteristics:
Flared tubing. Concave long nut. Internal threads on nut.

UNION

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510108	42X2	1/8	10
508175	42X3	3/16	10
508176	42X4	1/4	10
508177	42X5	5/16	10
508178	42X6	3/8	10
508179	42X8	1/2	5
508562	42X10	5/8	5
508563	42X12	3/4	2

UNION ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508200	55X4	1/4	10
508201	55X5	5/16	10
508202	55X6	3/8	5
508203	55X8	1/2	5

SHORT NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508170	1110X3	3/16	10
508171	1110X4	1/4	10
508172	1110X5	5/16	10
508173	1110X6	3/8	5
510106	1110X7	7/16	5
508174	1110X8	1/2	5
508560	1110X10	5/8	5
508561	1110X12	3/4	2

LONG NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510100	41X3	3/16	10
510101	41X4	1/4	10
510102	41X5	5/16	10
510103	41X6	3/8	5
510104	41X8	1/2	5
510105	41X10	5/8	2

MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508180	48X2	1/8	1/8	10
508181	48X3	3/16	1/8	10
508182	48X4	1/4	1/8	10
508960	48X4X4	1/4	1/4	5
508183	48X5	5/16	1/8	10
508184	48X5X4	5/16	1/4	10
508185	48X6	3/8	1/4	10
508186	48X6X2	3/8	1/8	10
508568	48X6X6	3/8	3/8	5
510120	48X6X8	3/8	1/2	5
510121	48X6X12	3/8	3/4	2
510123	48X8X4	1/2	1/4	5
508187	48X8	1/2	3/8	5
508188	48X8X8	1/2	1/2	5
510124	48X8X12	1/2	3/4	2
510125	48X10X6	5/8	3/8	5
508564	48X10	5/8	1/2	5
510126	48X10X12	5/8	3/4	2
508565	48X12	3/4	1/2	2

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BRASS FITTINGS

SAE 45° FLARE TUBE FITTINGS

90° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510127	49X2	1/8	1/8	10
508189	49X3	3/16	1/8	10
508190	49X4	1/4	1/8	10
508191	49X5	5/16	1/8	10
508961	49X4X4	1/4	1/4	5
508192	49X5X4	5/16	1/4	5
508962	49X6X2	3/8	1/8	3
508193	49X6	3/8	1/4	5
508963	49X6X6	3/8	3/8	3
510128	49X6X8	3/8	1/2	3
510129	49X6X12	3/8	3/4	2
510131	49X8X4	1/2	1/4	5
508194	49X8	1/2	3/8	5
510132	49X8X8	1/2	1/2	3
510133	49X10X6	5/8	3/8	2
508566	49X10	5/8	1/2	2
508567	49X12	3/4	1/2	2

45° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510143	54X4	1/4	1/8	2
510144	54X5	5/16	1/8	2
510145	54X6	3/8	1/4	2
510146	54X8	1/2	3/8	2
510147	54X10	5/8	1/2	2

MALE RUN TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510148	51X3	3/16	1/8	10
508208	51X4	1/4	1/8	10
508209	51X5	5/16	1/8	10
508210	51X6	3/8	1/4	5
508211	51X8	1/2	3/8	5

90° FEMALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510134	50X4	1/4	1/8	5
510135	50X5	5/16	1/8	5
510136	50X6	3/8	1/4	5
510137	50X6X8	3/8	1/2	3
510138	50X8	1/2	3/8	3
510139	50X8X8	1/2	1/2	3
510140	50X8X12	1/2	3/4	2
510141	50X10	5/8	1/2	2
510142	50X10X12	5/8	3/4	2

MALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510109	45X3	3/16	1/8	10
508204	45X4	1/4	1/8	10
508205	45X5	5/16	1/8	10
508206	45X6	3/8	1/4	5
508207	45X8	1/2	3/8	5
510110	45X10	5/8	1/2	2

PLUG

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510610	39X2	1/8	5
510611	39X3	3/16	5
510612	39X4	1/4	5
510613	39X5	5/16	5
510614	39X6	3/8	5
510615	39X8	1/2	5
510616	39X10	5/8	2
510617	39X12	3/4	2

UNION TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510107	44X3	3/16	10
508195	44X4	1/4	10
508196	44X5	5/16	10
508197	44X6	3/8	5
508198	44X8	1/2	5

CAP

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510601	40X2	1/8	5
510602	40X3	3/16	5
510603	40X4	1/4	5
510604	40X5	5/16	5
510605	40X6	3/8	5
510606	40X8	1/2	5
510607	40X10	5/8	2
510608	40X12	3/4	2

FEMALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510111	46X3	3--/16	1/8	5
510112	46X4	1/4	1/8	5
510113	46X4X4	1/4	1/4	5
510114	46X5	5/16	1/8	5
510115	46X5X4	5/16	1/4	5
510116	46X6	3/8	1/4	5
510117	46X6X2	3/8	1/8	5
510118	46X8	1/2	3/8	5
510119	46X10	5/8	1/2	2

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BRASS FITTINGS

STANDARD COMPRESSION TUBING FITTINGS

Applications:
Low/medium pressure, low vibration. Gas, oil, water, vacuum & air. Instrumentation, hydraulics, pneumatics.

Advantages:
Easy to assemble. No flaring. Built-in tubing support.

Disadvantages:
Susceptible to vibration failure. Sleeves not reusable.

Used with: Copper, brass, aluminum & plastic tubing.
Soft plastic tubing requires internal sleeve.

Assembly Notes:
1. Make sure tubing contacts shoulder within fitting body.
2. Hand tighten, then follow with wrench.

Identifying characteristics:
No flare on tubing. Uses brass sleeve for soft tubing.
Nut has internal threads.

NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508131	61X2	1/8	20
508132	61X3	3/16	20
508133	61X4	1/4	20
508134	61X5	5/16	20
508135	61X6	3/8	10
508801	61X7	7/16	10
508136	61X8	1/2	10
508552	61X10	5/8	10
508553	61X12	3/4	5

90° FEMALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510173	70X2	1/8	1/8	5
510174	70X3	3/16	1/8	5
510175	70X4	1/4	1/8	5
510176	70X5	5/16	1/8	5
510177	70X6	3/8	1/4	5
510178	70X8	1/2	3/8	2

90° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508167	69X2	1/8	1/8	10
508150	69X3	3/16	1/8	10
508151	69X4	1/4	1/8	10
508813	69X4X4	1/4	1/4	10
508152	69X5	5/16	1/8	10
508814	69X5X4	5/16	1/4	10
508815	69X6X2	3/8	1/8	5
508153	69X6	3/8	1/4	5
508816	69X6X6	3/8	3/8	5
510171	69X6X8	3/8	1/2	5
510172	69X7	7/16	1/4	5
508817	69X8X4	1/2	1/4	5
508154	69X8	1/2	3/8	5
508818	69X8X8	1/2	1/2	5
508558	69X10	5/8	1/2	2
508559	69X12	3/4	1/2	2

MALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508213	72X3	3/16	1/8	10
508161	72X4	1/4	1/8	10
508162	72X5	5/16	1/8	5
508163	72X6	3/8	1/4	5
508819	72X8	1/2	3/8	5

SLEEVE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508125	60X2	1/8	50
508126	60X3	3/16	50
508127	60X4	1/4	50
508128	60X5	5/16	50
508129	60X6	3/8	20
508800	60X7	7/16	20
508130	60X8	1/2	20
508550	60X10	5/8	20
508551	60X12	3/4	20

MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508168	68X2	1/8	1/8	10
508143	68X3	3/16	1/8	10
508144	68X4	1/4	1/8	10
508810	68X4X4	1/4	1/4	10
508145	68X5	5/16	1/8	10
508146	68X5X4	5/16	1/4	10
508147	68X6	3/8	1/4	5
508148	68X6X2	3/8	1/8	5
508811	68X6X6	3/8	3/8	5
510169	68X6X8	3/8	1/2	5
510170	68X7	7/16	1/4	5
508149	68X8	1/2	3/8	5
508812	68X8X8	1/2	1/2	5
508556	68X10	5/8	1/2	5
508557	68X12	3/4	1/2	2

MALE RUN TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508212	71X3	3/16	1/8	10
508164	71X4	1/4	1/8	10
508165	71X5	5/16	1/8	5
508166	71X6	3/8	1/4	5
510179	71X8	1/2	3/8	5

UNION ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510155	65X2	1/8	5
508124	65X3	3/16	5
508155	65X4	1/4	5
508156	65X5	5/16	5
508157	65X6	3/8	5
510156	65X7	7/16	5
508807	65X8	1/2	5
510157	65X10	5/8	2
510158	65X12	3/4	2

LONG NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510150	1611X3	3/16	10
508802	1611X4	1/4	10
508803	1611X5	5/16	10
508804	1611X6	3/8	10
508805	1611X8	1/2	10
510151	1611X12	3/4	5

FEMALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510159	66X2	1/8	1/8	5
510160	66X3	3/16	1/8	5
510161	66X4	1/4	1/8	5
510162	66X4X4	1/4	1/4	5
508808	66X5	5/16	1/8	5
508809	66X5X4	5/16	1/4	5
510163	66X6X2	3/8	1/8	5
510164	66X6	3/8	1/4	5
510165	66X8	1/2	3/8	2
510166	66X10X6	5/8	3/8	2
510167	66X10	5/8	1/2	2
510168	66X12X8	3/4	1/2	2

UNION

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508137	62X2	1/8	10
508138	62X3	3/16	10
508139	62X4	1/4	10
508140	62X5	5/16	5
508141	62X6	3/8	5
510149	62X7	7/16	5
508142	62X8	1/2	5
508554	62X10	5/8	2
508555	62X12	3/4	2

UNION TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510152	64X2	1/8	5
508169	64X3	3/16	5
508158	64X4	1/4	5
508159	64X5	5/16	5
508160	64X6	3/8	5
508806	64X8	1/2	2
510153	64X10	5/8	2
510154	64X12	3/4	2

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BRASS FITTINGS

SELFALIGN FITTINGS

Applications:
LP and natural gas, hazardous fuels. Low/medium pressure systems; oil, pneumatics, instrumentation.
Advantages:
No flaring. Ridge on sleeve prevents over-tightening. Fitting bodies interchangeable with Compression bodies.
Disadvantages:
Fair resistance to vibration. Sleeves not reusable.
Pressure: 2000 PSI

Used with: Copper, brass, aluminum and thermo-plastic tubing. Not recommended for steel.
Assembly Notes:
1. With nut finger tight, insert tubing until bottomed in the fitting. Complete tightening with wrench.
Identifying characteristics:
Very similar to Compression fittings, except for the sleeve. Sleeve is tapered on one end, with a ridge located at the opposite end.

SLEEVE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510206	601X2	1/8	10
510207	601X3	3/16	10
510208	601X4	1/4	10
510209	601X5	5/16	10
510210	601X6	3/8	10
510211	601X8	1/2	5
510212	601X10	5/8	5
510213	601X12	3/4	5

NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510214	611X2	1/8	5
510215	611X3	3/16	5
510216	611X4	1/4	5
510217	611X5	5/16	5
510218	611X6	3/8	2
510219	611X8	1/2	2
510220	611X10	5/8	2
510221	611X12	3/4	2

UNION

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510222	621X2	1/8	3
510223	621X3	3/16	3
510224	621X4	1/4	3
510225	621X5	5/16	3
510226	621X6	3/8	3
510227	621X8	1/2	2
510228	621X10	5/8	1

UNION TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510230	641X3	3/16	2
510231	641X4	1/4	2
510232	641X5	5/16	2
510233	641X6	3/8	2
510234	641X8	1/2	2

MALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508820	601X2	1/8	20
508821	601X3	3/16	20
508822	601X4	1/4	20
508823	601X5	5/16	10
508824	601X6	3/8	10
508825	601X8	1/2	10

UNION ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510236	651X4	1/4	3
510237	651X5	5/16	3
510238	651X6	3/8	3

MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
508168	68X2	1/8	1/8	10
508143	68X3	3/16	1/8	10
508144	68X4	1/4	1/8	10
508810	68X4X4	1/4	1/4	10
508145	68X5	5/16	1/8	10
508146	68X5X4	5/16	1/4	10
508147	68X6	3/8	1/4	5
508148	68X6X2	3/8	1/8	5
508811	68X6X6	3/8	3/8	5
510169	68X6X8	3/8	1/2	5
510170	68X7	7/16	1/4	5
508149	68X8	1/2	3/8	5
508812	68X8X8	1/2	1/2	5
508556	68X10	5/8	1/2	5
508557	68X12	3/4	1/2	2

MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510173	70X2	1/8	1/8	5
510174	70X3	3/16	1/8	5
510175	70X4	1/4	1/8	5
510176	70X5	5/16	1/8	5
510177	70X6	3/8	1/4	5
510178	70X8	1/2	3/8	2

FEMALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510159	66X2	1/8	1/8	5
510160	66X3	3/16	1/8	5
510161	66X4	1/4	1/8	5
510162	66X4X4	1/4	1/4	5
508808	66X5	5/16	1/8	5
508809	66X5X4	5/16	1/4	5
510163	66X6X2	3/8	1/8	5
510164	66X6	3/8	1/4	5
510165	66X8	1/2	3/8	2
510166	66X10X6	5/8	3/8	2
510167	66X10	5/8	1/2	2
510168	66X12X8	3/4	1/2	2

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FASTUBE INSTANT FITTINGS

A NEW CONCEPT IN BRASS COMPRESSION FITTINGS

A one piece, solid brass fitting.
For nylon, plastic, and soft metal tubing. Just push tubing into the fitting for an instant connection and 100% seal.
Save an average of 75% assembly time. Cuts downtime, labor and inventory.
No special tools. Eliminates nuts, ferrules and trimming tubes. Repairs can be made without disassembly.
Unique 3600 swivel feature makes tubing alignment, without kinking, easy.
Permanent connection, yet reusable.
Once tubing is locked into place, it stays there until you make a deliberate effort to disconnect.
Full flow. No inserts or tube support mechanisms to cause restrictions.
Performance tested before packaging. You are assured of product performance.
Vibration resistant. The tube is sealed by O-ring, and mechanically held into place, making this fitting is an excellent choice for wherever vibration is a factor.

FASTUBE INSTANT FITTINGS

Advantages:
No special tools. Tremendous time savings. Instant connection and disassembly. 360° swivel on elbows and tees. Tubing size marked on release button.
Pressure: To 300 PSI **Used with:** Polyethylene, polyproplene, polyurethane, nylon, and all thermoplastic tubing.
Temperature: 0° to 200°F **Material:** Nickel-plated forged brass body
Assembly Notes:
1. Be sure tubing is cut square and is free of burrs.
2. Insert tubing into fitting until it bottoms. A slight twisting motion will ease the insertion. Pull on tubing to verify it is properly retained in the fitting.
3. To disassemble, simply push the release button against the body and remove tubing.

— NOT FOR AIR BRAKE USE —

UNION

PART NUMBER	TUBE SIZE	QTY
508605	1/8	1
508665	5/32	1
508606	1/4	1
508666	5/16	1
508607	3/8	1
508608	1/2	1

BULKHEAD UNION

PART NUMBER	TUBE SIZE	QTY
508611	1/8	1
508667	5/32	1
508612	1/4	1
508668	5/16	1
508613	3/8	1
508614	1/2	1

MALE CONNECTOR

PART NUMBER	TUBE SIZE	PIPE THREAD	ALLEN WRENCH	QTY
508617	1/8	1/8	3/16	1
508669	5/32	1/8	3/16	1
508670	5/32	1/4	3/16	1
508618	1/4	1/8	3/16	1
508619	1/4	1/4	3/16	1
508620	1/4	3/8	3/16	1
508671	5/16	1/8	3/16	1
508672	5/16	1/4	3/16	1
508621	3/8	1/8	3/16	1
508622	3/8	1/4	1/4	1
508623	3/8	3/8	1/4	1
508624	1/2	3/8	3/8	1
508625	1/2	1/2	3/8	1

UNION TEE

PART NUMBER	TUBE SIZE	QTY
508627	1/8	1
508673	5/32	1
508628	1/4	1
508674	5/16	1
508629	3/8	1
508630	1/2	1

90° MALE ELBOW, SWIVEL

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
508633	1/8	1/8	1
508675	5/32	1/8	1
508676	5/32	1/4	1
508634	1/4	1/8	1
508635	1/4	1/4	1
508677	5/16	1/8	1
508678	5/16	1/4	1
508636	3/8	1/8	1
508637	3/8	1/4	1
508638	3/8	3/8	1
508639	1/2	3/8	1

MALE RUN TEE, SWIVEL

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
508643	1/8	1/8	1
508679	5/32	1/8	1
508644	1/4	1/8	1
508645	1/4	1/4	1
508680	5/16	1/8	1
508681	5/16	1/4	1
508646	3/8	1/4	1
508682	3/8	3/8	1
508647	1/2	3/8	1

MALE BRANCH TEE, SWIVEL

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
508650	1/8	1/8	1
508683	5/32	1/8	1
508651	1/4	1/8	1
508652	1/4	1/4	1
508684	5/16	1/8	1
508685	5/16	1/4	1
508686	3/8	1/4	1
508687	3/8	3/8	1
508653	1/2	3/8	1

PLASTIC PLUG

PART NUMBER	TUBE SIZE	QTY
508656	1/8	1
508688	5/32	1
508657	1/4	1
508689	5/16	1
508658	3/8	1
508659	1/2	1

FEMALE CONNECTOR

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
508690	1/8	1/8	1
508691	5/32	1/8	1
508692	5/32	1/4	1
508693	1/4	1/8	1
508694	1/4	1/4	1
508695	5/16	1/8	1
508696	5/16	1/4	1
508697	3/8	1/4	1
508698	3/8	3/8	1

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FASTUBE INSTANT FITTINGS

FASTUBE INSTANT FITTINGS

TUBE END REDUCER

2 1

PART NUMBER	TUBE SIZE (1)	TUBE SIZE (2)	QTY
508705	1/8	5/32	1
508706	1/8	1/4	1
508707	5/32	1/4	1
508708	5/32	5/16	1
508709	5/32	3/8	1
508710	1/4	5/16	1
508711	1/4	3/8	1
508712	1/4	1/2	1
508713	5/16	3/8	1
508714	3/8	1/2	1

UNION ELBOW

PART NUMBER	TUBE SIZE	QTY
508715	1/8	1
508716	5/32	1
508717	1/4	1
508718	5/16	1
508719	3/8	1
508720	1/2	1

90° MALE ELBOW

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
508721	1/8	1/8	1
508722	5/32	1/8	1
508723	5/32	1/4	1
508724	1/4	1/8	1
508725	1/4	1/4	1
506726	5/16	1/8	1
508727	5/16	1/4	1
508728	3/8	1/4	1
508729	3/8	3/8	1
508730	3/8	1/2	1
508731	1/2	3/8	1

FASTUBE INSTANT FITTING ASSORTMENTS

Sizes: 1/8" and 1/4"
Part No. 508601
48 pieces • 24 items
12017 steel tray

508605	508617	508629	508646
508606	508618	508633	508650
508607	508619	508634	508652
508611	508620	508635	508656
508612	508627	508643	508657
508613	508628	508645	508658

Numbers in assortment

Sizes: 3/8" and 1/2"
Part No. 508602
68 pieces • 20 items
12017 steel tray

508607	508622	508638	508653
508608	508623	508639	508656
508613	508629	508646	508657
508614	508630	508647	508658
508621	508637	508652	508659

Numbers in assortment

Sizes: 1/8"
Part No. 508660
24 pieces • 8 items
12039 plastic tray

508605	508627	508650
508611	508633	508656
508617	508643	

Numbers in assortment

Sizes: 3/8"
Part No. 508662
18 pieces • 6 items
12042 plastic tray

508607	508623	508638
508613	508629	508658

Numbers in assortment

Sizes: 1/4"
Part No. 508661
24 pieces • 8 items
12039 plastic tray

508606	508628	508652
508612	508635	508657
508619	508645	

Numbers in assortment

Sizes: 1/2"
Part No. 508663
18 pieces • 6 items
12042 plastic tray

508608	508630	508653
508614	508639	508659

Numbers in assortment

B13

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COMPOSITE PUSH-TO-CONNECT FITTINGS

COMPOSITE PUSH-TO-CONNECT FITTINGS

Advantages:
An Economical Alternative for Non-Critical Applications. No special tools. Tremendous time savings. Instant connection and disassembly. 360° swivel on elbows and tees. Tubing O.D. size marked on the release button.

Temperature Range: 0° to 140°F.
Pressure: To 150 PSI
Used with: Most thermoplastic tubing.
Material: Shaped fittings have composite bodies and the straight fittings have a nickel plated brass bodies. External pipe threads come with a pre-applied white PCTFE sealant.

NOT FOR AIR BRAKE USE OR LIVE SWIVEL APPLICATIONS

UNION

PART NUMBER	TUBE SIZE	QTY
509211	1/8	1
509212	5/32	1
509213	3/16	1
509214	1/4	1
509215	5/16	1
509216	3/8	1
509217	1/2	1

UNION ELBOW

PART NUMBER	TUBE SIZE	QTY
509218	1/8	1
509219	5/32	1
509220	3/16	1
509221	1/4	1
509222	5/16	1
509223	3/8	1
509224	1/2	1

FEMALE CONNECTOR

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
509228	5/32	1/8	1
509229	5/32	1/4	1
509225	3/16	1/8	1
509226	1/4	1/8	1
509227	1/4	1/4	1
509230	5/16	1/8	1
509231	5/16	1/4	1
509232	3/8	1/4	1
509233	3/8	3/8	1

90° MALE ELBOW

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
509234	1/8	1/8	1
509235	1/8	1/4	1
509236	5/32	1/8	1
509237	5/32	1/4	1
509238	3/16	1/8	1
509239	3/16	1/4	1
509240	1/4	1/8	1
509241	1/4	1/4	1
509242	1/4	3/8	1
509243	5/16	1/8	1
509244	5/16	1/4	1
509245	5/16	3/8	1
509246	3/8	1/8	1
509247	3/8	1/4	1
509248	3/8	3/8	1
509249	3/8	1/2	1
509250	1/2	1/4	1
509251	1/2	3/8	1
509252	1/2	1/2	1

UNION TEE

PART NUMBER	TUBE SIZE	QTY
509253	1/8	1
509254	5/32	1
509255	3/16	1
509256	1/4	1
509257	5/16	1
509258	3/8	1
509259	1/2	1

MALE CONNECTOR

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
509260	1/8	1/8	1
509261	1/8	1/4	1
509262	5/32	1/8	1
509263	5/32	1/4	1
509264	3/16	1/8	1
509265	3/16	1/4	1
509266	1/4	1/8	1
509267	1/4	1/4	1
509268	1/4	3/8	1
509269	5/16	1/8	1
509270	5/16	1/4	1
509271	5/16	3/8	1
509272	3/8	1/8	1
509273	3/8	1/4	1
509274	3/8	3/8	1
509275	3/8	1/2	1
509276	1/2	1/4	1
509277	1/2	3/8	1
509278	1/2	1/2	1

MALE RUN TEE, SWIVEL

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
509279	1/8	1/8	1
509280	1/8	1/4	1
509281	5/32	1/8	1
509282	5/32	1/4	1
509283	3/16	1/8	1
509284	3/16	1/4	1
509285	1/4	1/8	1
509286	1/4	1/4	1
509287	1/4	3/8	1
509288	5/16	1/8	1
509289	5/16	1/4	1
509290	5/16	3/8	1
509291	3/8	1/8	1
509292	3/8	1/4	1
509293	3/8	3/8	1
509294	3/8	1/2	1
509295	1/2	1/4	1
509296	1/2	3/8	1
509297	1/2	1/2	1

MALE BRANCH TEE, SWIVEL

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
509298	1/8	1/8	1
509299	1/8	1/4	1
509300	5/32	1/8	1
509301	3/16	1/8	1
509302	3/16	1/4	1
509303	1/4	1/8	1
509304	1/4	1/4	1
509305	1/4	3/8	1
509306	5/16	1/8	1
509307	5/16	1/4	1
509308	5/16	3/8	1
509309	3/8	1/8	1
509310	3/8	1/4	1
509311	3/8	3/8	1
509312	3/8	1/2	1
509313	1/2	1/4	1
509314	1/2	3/8	1
509315	1/2	1/2	1

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COMPOSITE PUSH-TO-CONNECT FITTINGS

COMPOSITE PUSH-TO-CONNECT FITTINGS

90° FEMALE ELBOW

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
509316	1/8	1/8	1
509317	1/8	1/4	1
509318	5/32	1/8	1
509319	5/32	1/4	1
509320	1/4	1/8	1
509321	1/4	1/4	1
509322	1/4	3/8	1
509323	5/16	1/8	1
509324	5/16	1/4	1
509325	3/8	1/8	1
509326	3/8	1/4	1
509327	3/8	3/8	1
509328	3/8	1/2	1
509329	1/2	3/8	1
509330	1/2	1/2	1

UNION "Y" CONNECTOR

PART NUMBER	TUBE SIZE	QTY
509331	1/8	1
509332	5/32	1
509333	3/16	1
509334	1/4	1
509335	5/16	1
509336	3/8	1
509337	1/2	1

UNION "Y" MALE CONNECTOR

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
509338	1/8	1/8	1
509339	1/8	1/4	1
509342	5/32	1/8	1
509343	5/32	1/4	1
509340	3/16	1/8	1
509341	3/16	1/4	1
509344	1/4	1/8	1
509345	1/4	1/4	1
509346	1/4	3/8	1
509347	5/16	1/8	1
509348	5/16	1/4	1
509349	3/8	1/8	1
509350	3/8	1/4	1
509351	3/8	3/8	1
509352	3/8	1/2	1
509353	1/2	1/4	1
509354	1/2	3/8	1
509355	1/2	1/2	1

COMPOSITE PUSH-TO-CONNECT FITTING ASSORTMENTS

Sizes: 1/8" and 1/4"
Part No. 509601
48 pieces • 24 items
12017 steel tray

508656	509234	509260	509292
508657	509240	509266	509298
508658	509241	509267	509304
509211	509253	509268	509331
509214	509256	509279	509334
509216	509258	509286	509336

Numbers in assortment

Sizes: 3/8" and 1/2"
Part No. 509602
68 pieces • 20 items
12017 steel tray

508656	509217	509259	509296
508657	509247	509272	509304
508658	509248	509273	509314
508659	509251	509274	509336
509216	509258	509292	509337

Numbers in assortment

Sizes: 1/8"
Part No. 509660
24 pieces • 8 items
12039 plastic tray

508656	509253	509298
509211	509260	509331
509234	509279	

Numbers in assortment

Sizes: 3/8"
Part No. 509662
18 pieces • 6 items
12042 plastic tray

508658	509248	509274
509216	509258	509336

Numbers in assortment

Sizes: 1/4"
Part No. 509661
24 pieces • 8 items
12039 plastic tray

508657	509256	509304
509214	509267	509334
509241	509286	

Numbers in assortment

Sizes: 1/2"
Part No. 509663
18 pieces • 6 items
12042 plastic tray

508659	509251	509314
509217	509259	509337

Numbers in assortment

B13

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METRIC PUSH CONNECT FITTINGS

METRIC PUSH TO CONNECT FITTINGS

Advantages: No special tools. Tremendous time savings. Instant connection and disassembly.
Temperature Range: -40°F to +200°F
Pressure: To 250 PSI
Used with: Metric nylon tubing.
Material: Brass nickel plated.
Assembly Notes:
1. Be sure tubing is cut square and is free of burrs.
2. Depress release button to remove tubing.

Internal Sealing Method: O-ring of buna-n construction. Male threads have a plastic sealing washer.
Applications: Compressed air, pneumatic instrumentation, circuit, lubricant and cooling lines.

NOMINAL SIZE	2	4	6	8
Thread MM				
BSPT	1/8 (2PT)	1/4 (4PT)	3/8 (6PT)	1/2 (8PT)
BSPP	1/8 (2PP)	1/4 (4PP)	3/8 (6PP)	1/2

THREAD IDENTIFICATION

BSPT	British Standard Pipe Taper
BSPP	British Standard Pipe Parallel

INDUSTRY SUFFIX CHART

MRP	Metric Red Plug
PP	British Parallel Plug (BSPP)
PT	British Tapered Pipe (BSPT)
PTS	British Tapered Pipe Swivel (BSPT)

— NOT FOR AIR BRAKE USE —

PLASTIC PLUG

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	QTY
510500	1129x4MRP	4	2
510501	1129x6MRP	6	2
510502	1129x8MRP	8	2
510503	1129x10MRP	10	2
510504	1129x12MRP	12	2

UNION

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	QTY
510505	1162x4M	4	1
510506	1162x6M	6	1
510507	1162x8M	8	1
510508	1162x10M	10	1
510509	1162x12M	12	1

MALE "Y"

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	THREAD SIZE BSPT	QTY
510510	1108x4Mx2PT	4	1/8	1
510511	1108x6Mx2PT	6	1/8	1
510512	1108x8Mx2PT	8	1/8	1
510513	1108x8Mx4PT	8	1/4	1

UNION "Y"

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	QTY
510514	1107x4M	4	1
510515	1107x6M	6	1
510516	1107x8M	8	1
510517	1107x10M	10	1

MALE CONNECTOR (Universal BSPT/BSPP)

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	THREAD SIZE BSPT	QTY
510518	1168x4Mx2PT	4	1/8	2
510519	1168x4Mx4PT	4	1/4	2
510520	1168x6Mx2PT	6	1/8	2
510521	1168x6Mx4PT	6	1/4	2
510522	1168x8Mx2PT	8	1/8	2
510523	1168x8Mx4PT	8	1/4	2
510524	1168x8Mx6PT	8	3/8	2
510525	1168x10Mx4PT	10	1/4	2
510526	1168x10Mx6PT	10	3/8	2
510527	1168x10Mx8PT	10	1/2	1
510528	1168x12Mx4PT	12	1/4	2
510529	1168x12Mx6PT	12	3/8	2
510530	1168x12Mx8PT	12	1/2	1

FEMALE CONNECTOR (BSPP)

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	THREAD SIZE BSPT	QTY
510531	1166x4Mx2PP	4	1/8	2
510532	1166x6Mx2PP	6	1/8	2
510533	1166x6Mx4PP	6	1/4	2
510534	1166x8Mx2PP	8	1/8	2
510535	1166x8Mx4PP	8	1/4	2
510536	1166x10Mx4PP	10	1/4	1

UNION ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	QTY
510537	1165x4M	4	2
510538	1165x6M	6	2
510539	1165x8M	8	1
510540	1165x10M	10	1
510541	1165x12M	12	1

MALE ELBOW (BSPT)

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	THREAD SIZE BSPT	QTY
510542	1169x4Mx2PT	4	1/8	2
510543	1169x4Mx4PT	4	1/4	2
510544	1169x6Mx2PT	6	1/8	2
510545	1169x6Mx4PT	6	1/4	2
510546	1169x8Mx2PT	8	1/8	2
510547	1169x8Mx4PT	8	1/4	2
510548	1169x8Mx6PT	8	3/8	1
510549	1169x10Mx4PT	10	1/4	1
510550	1169x10Mx6PT	10	3/8	1
510551	1169x12Mx4PT	12	1/4	1
510552	1169x12Mx6PT	12	3/8	1

MALE ELBOW SWIVEL (Universal BSPT/BSPP)

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	THREAD SIZE BSPT	QTY
510553	1169x4Mx2PTS	4	1/8	1
510554	1169x4Mx4PTS	4	1/4	1
510555	1169x6Mx2PTS	6	1/8	1
510556	1169x6Mx4PTS	6	1/4	1
510557	1169x8Mx2PTS	8	1/8	1
510558	1169x8Mx4PTS	8	1/4	1
510559	1169x8Mx6PTS	8	3/8	1
510560	1169x10Mx4PTS	10	1/4	1
510561	1169x10Mx6PTS	10	3/8	1
510562	1169x10Mx8PTS	10	1/2	1
510563	1169x12Mx4PTS	12	1/4	1
510564	1169x12Mx6PTS	12	3/8	1
510565	1169x12Mx8PTS	12	1/2	1

UNION TEE

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	QTY
510566	1164x4M	4	1
510567	1164x6M	6	1
510568	1164x8M	8	1
510569	1164x10M	10	1
510570	1164x12M	12	1

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METRIC PUSH CONNECT FITTINGS

METRIC PUSH CONNECT FITTINGS

Sizes: 6mm through 10mm
Part No. 501724
47 pieces • 29 items
12062 steel tray

510501	510520	510526	510549	510576
510502	510521	510544	510550	510578
510503	510522	510545	510567	510583
510506	510523	510546	510568	510584
510507	510524	510547	510569	510585
510508	510525	510548	510573	

Numbers in assortment

MALE BRANCH TEE SWIVEL (BSPT)

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	THREAD SIZE BSPT	QTY
510571	1172x4Mx2PTS	4	1/8	1
510572	1172x6Mx2PTS	6	1/8	1
510573	1172x6Mx4PTS	6	1/4	1
510574	1172x8Mx2PTS	8	1/8	1
510575	1172x8Mx4PTS	8	1/4	1
510576	1172x8Mx6PTS	8	3/8	1
510577	1172x10Mx4PTS	10	1/4	1
510578	1172x10Mx6PTS	10	3/8	1
510579	1172x12Mx4PTS	12	1/4	1
510580	1172x12Mx6PTS	12	3/8	1
510581	1172x12Mx8PTS	12	1/2	1

BULKHEAD UNION

PART NUMBER	INDUSTRY NUMBER	TUBE O.D. (mm)	QTY
510582	1174x4M	4	1
510583	1174x6M	6	1
510584	1174x8M	8	1
510585	1174x10M	10	1
510586	1174x12M	12	1

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FULLER TRANSMISSION COMPRESSION / BARB FITTINGS

FULLER TRANSMISSION COMPRESSION FITTINGS

- Specialized compression fittings for service and repair of Fuller Truck Transmissions.
- Solid brass.
- Easy to assemble.
- Brass inserts for 3/16'' nylon tubing.
- Warning: Never reuse fitting sleeves.

Part No. 510901
53 pieces • 9 items
12031 plastic tray

510902	510905	510908
510903	510906	510909
510904	510907	510910

Numbers in assortment

NUT

PART NUMBER	TUBE SIZE	QTY
510906	1/8	10
510911	5/32	10
510907	3/16	10

MALE ELBOW

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
510917	1/8	1/16	3
510904	1/8	1/8	3
510918	5/32	1/8	3
510905	3/16	1/8	3

INSERT

PART NUMBER	TUBE SIZE	QTY
508391	3/16	50

SLEEVE

PART NUMBER	TUBE SIZE	QTY
510910	3/16	25

UNION

PART NUMBER	TUBE SIZE	QTY
510909	1/8	2
510913	5/32	2

COLLET

PART NUMBER	TUBE SIZE	QTY
510908	1/8	10
510912	5/32	10

MALE CONNECTOR

PART NUMBER	TUBE SIZE	PIPE THREAD	QTY
510902	1/8	1/16	5
510914	1/8	1/8	5
510915	5/32	1/16	5
510916	5/32	1/8	5
510903	3/16	1/8	5

BARB FITTINGS

- Specialized hose fittings for a quick, economical way to connect polyethylene tubing.
- Solid brass.
- Easy to assemble. Just push squarely cut tubing over both barbs.
- Working pressures and temperatures:
  - 1/4 & 3/8 tubing: 150 PSI • -65° to 90°F
  - 1/2 tubing: 100 PSI • -65° to 75°F
- May be double or single barb.

UNION

PART NUMBER	TUBE O.D.	QTY
510300	1/4	5
510301	3/8	5
510302	1/2	5

UNION TEE

PART NUMBER	TUBE O.D.	QTY
510312	1/4	2
510313	3/8	2
510314	1/2	2

90° FEMALE ELBOW

PART NUMBER	TUBE O.D.	PIPE THREAD	QTY
510323	1/4	1/8	2
510324	3/8	1/4	2

FEMALE CONNECTOR

PART NUMBER	TUBE O.D.	PIPE THREAD	QTY
510303	1/4	1/8	3
510304	3/8	1/8	3
510305	3/8	1/4	3

MALE CONNECTOR

PART NUMBER	TUBE O.D.	PIPE THREAD	QTY
510306	1/4	1/16	5
510307	1/4	1/8	5
510308	1/4	1/4	5
510309	3/8	1/8	3
510310	3/8	1/4	3
510311	1/2	3/8	3

UNION ELBOW

PART NUMBER	TUBE O.D.	QTY
510315	1/4	5
510316	3/8	5
510317	1/2	5

90° MALE ELBOW

PART NUMBER	TUBE O.D.	PIPE THREAD	QTY
510318	1/4	1/8	3
510319	1/4	1/4	3
510320	3/8	1/8	3
510321	3/8	1/4	2
510322	1/2	3/8	2

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BRASS FITTINGS

THREADED SLEEVE TUBING FITTINGS

Applications:
Oil, air, water, and lubrication systems.
Advantages:
Easy to assemble. No flaring required.
Disadvantages:
Limited selection of sizes and shapes.
Difficult to disassemble and reassemble.
Pressure: 500 PSI for 1/4'' and 1/8''.
250 PSI for 5/16'' and 3/8''.

Used with: Copper, Aluminum and Nylon.
Assembly Notes:
1. Lubricate threads.
2. Tighten 1-1/2 turns past hand tight.

Identifying characteristics:
Similar in appearance to the inverted flare fitting, but with a thinner nut. External thread on nut. Also known as DOUBLE COMPRESSION fittings.

MALE NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
510276	6100x2	1/8	10
510277	6100x3	3/16	10
510278	6100x4	1/4	10

MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510289	6400x2	1/8	1/8	2
510290	6400x3	3/16	1/8	2
510291	6400x4	1/4	1/8	2

MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	PIPE THREAD	QTY
510284	6200x2	1/8	1/8	5
510285	6200x3	3/16	1/8	5
510286	6200x4	1/4	1/8	5

GM COOLER REPAIR FITTINGS

- **Eliminates costly oil cool replacement in GM radiators.**
- **Fittings engage the damaged or stripped threads in the cool connection, located in the radiators lower or side tank, and is soldered into place.**
- **After the repair to the connection, the original tubing and inverted flare nut are used for connection.**

PART NUMBER	TUBING SIZE	QTY
508875	5/16 (Inverted flare, male & female ends.)	3
508876	3/8 (Inverted flare, male & female ends.)	3

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BRASS FITTINGS

HOSE FITTINGS

MALE PIPE END

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	PIPE THREAD	QTY
508288	05703B-102	3/16	1/8	5
508289	05704B-102	1/4	1/8	5
508290	05704B-104	1/4	1/4	5
508291	05705B-102	5/16	1/8	5
508292	05705B-104	5/16	1/4	5
508967	05706B-102	3/8	1/8	5
508293	05706B-104	3/8	1/4	5
508294	05706B-106	3/8	3/8	5

MALE PIPE 90° ELBOW

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	PIPE THREAD	QTY
508295	05704B-C02	1/4	1/8	5
508296	05705B-C02	5/16	1/8	5
508297	05705B-C04	5/16	1/4	3
508968	05706B-C02	3/8	1/8	5
508298	05706B-C04	3/8	1/4	3
508905	05710B-C06	5/8	3/8	1

HOSE SPLICER

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	PIPE THREAD	QTY
508575	--	3/16	--	5
508250	--	1/4	--	5
508251	--	5/16	--	5
508252	--	3/8	--	5
508576	--	1/2	--	5
508577	--	5/8	--	2
508578	--	3/4	--	2

HOSE - MALE ADAPTER

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	PIPE THREAD	QTY
508580	--	3/16	1/8	5
508581	--	3/16	1/4	5
508253	--	1/4	1/8	5
508254	--	1/4	1/4	5
508255	--	1/4	3/8	5
508256	--	5/16	1/8	5
508257	--	5/16	1/4	5
508582	--	5/16	3/8	5
508258	--	3/8	1/8	5
508259	--	3/8	1/4	5
508260	--	3/8	3/8	5
508583	--	3/8	1/2	5
508584	--	1/2	1/4	5
508585	--	1/2	3/8	5
508586	--	1/2	1/2	5
508587	--	5/8	3/8	5
508588	--	5/8	1/2	5
508589	--	5/8	3/4	5
508590	--	3/4	1/2	5
508591	--	3/4	3/4	5

REUSABLE SPLICER

PART NUMBER	HOSE I.D.	HOSE O.D.	PIPE THREAD	QTY
508735	1/4	1/2	--	2
508736	1/4	9/16	--	2
508737	3/8	11/16	--	2

REUSABLE MALE RIGID FITTING

PART NUMBER	HOSE I.D.	HOSE O.D.	PIPE THREAD	QTY
508738	1/4	1/2	1/4	2
508739	1/4	9/16	1/4	2
508740	3/8	11/16	1/4	2

INVERTED MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	TUBE SIZE	QTY
508969	05705B-1598	5/16	1/4	5
508269	05705B-1560	5/16	5/16	5
508970	05705B-1561	5/16	3/8	5
508971	05706B-1568	3/8	5/16	5
508972	05706B-1570	3/8	3/8	5

INVERTED MALE ELBOW SWIVEL

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	TUBE SIZE	QTY
508973	05704B-B64	1/4	1/4	3
508974	05704B-B65	1/4	5/16	3
508975	05705B-B65	5/16	5/16	3
508976	05706B-B65	3/8	5/16	3
508977	05706B-B66	3/8	3/8	3

SAE 45° FLARE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	TUBE SIZE	QTY
508978	05706B-305	3/8	5/16	5

MALE STRAIGHT THREAD CONNECTOR

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	THREAD SIZE	QTY
508979	05706B-1412	3/8	9/16-24	5
508980	05706B-1413	3/8	7/8-20	5
508981	05706B-1569	3/8	5/8-20	3

HOSE FITTING ASSORTMENTS

Low pressure air, fuel and oil applications for automotive, light trucks and small engines.

MALE PIPE HOSE ENDS
Part No. 508004
22 pieces • 11 items
12038 plastic tray

508288	**508291**	**508294**	**508297**
508289	**508292**	**508295**	**508298**
508290	**508293**	**508296**	

Numbers in assortment

- **Made from CA360 brass.**
- **Easy assembly - just push fitting into hose and clamp.**

MASTER HOSE FITTINGS
Part No. 501341
60 pieces • 30 items
12062 steel tray

508250	**508290**	**508296**	**508970**	**508976**
508251	**508291**	**508297**	**508971**	**508977**
508252	**508292**	**508298**	**508972**	**508978**
508269	**508293**	**508967**	**508973**	**508979**
508288	**508294**	**508968**	**508974**	**508980**
508289	**508295**	**508969**	**508975**	**508981**

Numbers in assortment

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BRASS FITTINGS

BARB-TITE CLAMPLESS HOSE FITTINGS

Used on low pressure shop or service air lines, lube and oil lines, water and fuel.

- **Made from CA360 brass.**
- **Easy to use, no hose clamp or ferrules needed.**
- **Use with push on hose only.**
- **Ideal for use in the field.**

E-Z INSTALLATION

HOSE MENDER / COUPLER

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	QTY
508850	10004B-Y04	1/4	5
508851	10005B-Y05	5/16	5
508852	10006B-Y06	3/8	5

SAE 45° FLARE FEMALE SWIVEL

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	TUBE SIZE	THREAD SIZE	QTY
508855	10004B-404	1/4	1/4	7/16-20	5
508856	10005B-405	5/16	5/16	1/2-20	5
508857	10006B-406	3/8	3/8	5/8-18	5

SAE 45° FLARE MALE RIGID

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	TUBE SIZE	THREAD SIZE	QTY
508860	10004B-304	1/4	1/4	7/16-20	5
508861	10005B-305	5/16	5/16	1/2-20	5
508862	10006B-306	3/8	3/8	5/8-18	5

MALE PIPE RIGID 90° ELBOW

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	TUBE SIZE	THREAD SIZE	QTY
508880	--	1/4	1/4	1/4-18	5
508881	--	3/8	1/4	1/4-18	5
508882	--	3/8	3/8	3/8-18	5

MALE PIPE RIGID

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	TUBE SIZE	THREAD SIZE	QTY
508870	10004B-104	1/4	1/4	1/4-18	5
508871	10005B-104	5/16	1/4	1/4-18	5
508872	10006B-104	3/8	1/4	1/4-18	5
508873	10006B-106	3/8	3/8	3/8-18	5

INVERTED MALE SWIVEL

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	TUBE SIZE	THREAD SIZE	QTY
508865	10004B-B04	1/4	1/4	7/16-24	5
508866	10005B-B05	5/16	5/16	1/2-20	5
508867	10006B-B06	3/8	3/8	5/8-18	5

BARB-TITE CLAMPLESS HOSE FITTING ASSORTMENT

Part No. 501656
80 pieces • 16 items
12050 steel tray

508850	**508857**	**508867**	**508873**
508851	**508862**	**508870**	**508880**
508852	**508865**	**508871**	**508881**
508855	**508866**	**508872**	**508882**

Numbers in assortment

BARB-TITE CLAMPLESS & FUEL HOSE FITTING ASSORTMENT

Part No. 501657
305 pieces • 30 items
(2) 12050 steel trays

508269	**508293**	**508852**	**508867**	**508880**	**508970**
508289	**508294**	**508855**	**508870**	**508881**	**508971**
508290	**508298**	**508857**	**508871**	**508882**	**508972**
508291	**508850**	**508862**	**508872**	**508967**	**508975**
508292	**508851**	**508866**	**508873**	**508969**	**508976**

Numbers in assortment

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BRASS FITTINGS & HOSE

SPECIAL ADAPTERS

JIC FLARE TO O'RING PORT FOR AIR CONDITIONING AND POWER STEERING

Steel

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	THREAD A	THREAD B	QTY
508984	41157x4	1/4	7/16-20	7/16-24	1
508985	41157x6	3/8	9/16-18	5/8-18	1
508986	41157x8	1/2	3/4-16	3/4-16	1
508987	41157x10	5/8	7/8-14	7/8-14	1
508988	41157x12	3/4	1-1/16-12	1-1/16-16	1

JIC FLARE TO O'RING PORT FOR AIR CONDITIONING AND POWER STEERING

Brass

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	THREAD A	THREAD B	QTY
508982	1440	1/4	7/16-20	9/16-18	2
508983	1439	3/8	9/16-18	5/8-18	2

TRANSMISSION OIL COOLANT LINE ADAPTER

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	INVERTED NUT	TUBE LENGTH	QTY
508989	1428	5/16	5/16	4-1/2	5
508990	1429	3/8	3/8	4-1/2	5

SAE 45° FLARE TO INVERTED FLARE ADAPTER

PART NUMBER	INDUSTRY NUMBER	SAE TUBE SIZE	INVERTED TUBE SIZE	QTY
508995	1518	1/4	3/16	5
508996	1522	1/4	1/4	5
508997	1553	3/8	5/16	5
508998	1563	3/8	3/8	5
508999	1554	3/8	7/16	3

LATE MODEL FORD POWER STEERING FITTING

PART NUMBER	INDUSTRY NUMBER	INVERTED FEMALE	FEM. O-RING PORT	QTY
508906	1444	3/8	7/16 11/16-18	3

CARBURETOR TO FUEL LINE ADAPTER

Plymouth

PART NUMBER	INDUSTRY NUMBER	INVERTED TUBE SIZE	PIPE THREAD	QTY
508993	1514	1/2-20	1/8	3

AC TYPE ADAPTER

PART NUMBER	INDUSTRY NUMBER	TUBE I.D.	SAE TUBE SIZE	QTY
508994	1521	1/4	1/4	5
		Threaded Sleeve		

RESTRICTION PIPE ADAPTER

PART NUMBER	INDUSTRY NUMBER	PIPE SIZE	ORIFICE	QTY
508992	1512	1/8	.0625	5

WATER LINE ELBOW

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	PIPE THREAD	QTY
508905	05710B-C06	5/8	3/8	1

PUSH-ON HOSE

Used with barbed type and clampless hose fittings for general purpose low pressure air, fuel, oil and water lines.

- **Nitrile inter tube.**
- **One fiber braid reinforcement.**
- **Working pressure 350 PSI.**
- **Temperature range -40°F to +212°F (-40°C to +100°C).**
- **10 ft. per roll.**
- **Minimum burst pressure 1400 PSI.**

RUBBER COVER HOSE

Neoprene cover, MSHA accepted.

PART NUMBER	HOSE I.D.	HOSE O.D.	QTY
10925	1/4	1/2	10
10926	5/16	9/16	10
10927	3/8	5/8	10

FABRIC COVER HOSE

Fiber braid cover can be used for diesel fuel.

PART NUMBER	HOSE I.D.	HOSE O.D.	QTY
10945	1/4	1/2	10
10946	5/16	9/16	10
10947	3/8	5/8	10

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FASTUBE INSTANT AIR BRAKE FITTINGS

FASTUBE INSTANT AIR BRAKE FITTINGS

- Working pressure to 250PSI.
- Applicable standard FMVSS-106.
- Working temperature -20F to +200F.
- Brass body with Buna-N O-Rings.
- Pre-applied Teflon-pipe sealant on all male pipe threads.
- DOT marked and approved (see below).
- Quick connect, simply push tubing in, no tools, or loose parts to handle in tight places.
- Full flow design provides up to 60% more flow area than conventional fittings with internal tube supports.
- Brass construction elbows and tees are forged brass.
- Swivel elbows and tees for ease of orientation.
- Saves time - installs up to 80% faster than conventional fittings.

DOT Approved

Part No. 501556
38 pieces • 19 items
12017 steel tray

508605	510401	510417	510422	510434
508617	510402	510418	510429	510436
508721	510413	510420	510430	510437
510400	510414	510421	510433	

Numbers in assortment

Applications

1. Air horns
2. Air operated mirrors
3. Wiper motors
4. Shutter stats
5. Air operated clutch fan
6. Fifth wheel
7. Operating gauges
8. Air operated seats
9. Air toggle switches
10. Heaters
11. Window opening and closing cylinders
12. Door locks
13. Cab tilt cylinders
14. Main frame air lines
15. Gear shift
16. Transmission
17. Suspension Systems

Our DOT Fittings are designed for use in applications described in bold type in the excerpt below from the National highway Traffic Safety Administration, Department Of Transportation FMVSS-106.

S7.3.10 Tensile Strength: An air brake hose assembly (other than a coiled nylon tube assembly which meets the requirements of S393.45 of this title) designed for use between frame and axle or between a towed and towing vehicle shall withstand, without separation of the hose from it's end fittings, a pull of 250 pounds if it is 1/4 inch or less in nominal internal diameter, or pull of 325 pounds if it is larger than 1/4 inch nominal internal diameter.

An air brake assembly designed for use with any other application shall withstand without separation of the hose from it's end fitting, a pull of 50 pounds if it is 1/4 inch or less in internal diameter, 150 pounds if it is 3/8 or 1/2 inch in nominal internal diameter, or 325 pounds if it is larger than 1/2 inch in nominal internal diameter. (S8.9) (39F.R. 28436-Aug. 7,1974. Effective 3/1/75).

B13

UNION

PART NUMBER	INDUSTRY NUMBER	TUBE
510466	1862x2.5	5/32
510467	1862x3	3/16
510400	1862x4	1/4
510401	1862X6	3/8
510402	1862X8	1/2

UNION TEE

PART NUMBER	INDUSTRY NUMBER	TUBE
510403	1864x4	1/4
510404	1864x6	3/8
510405	1864x8	1/2

UNION ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE
510406	1865x4	1/4
510407	1865x6	3/8
510408	1864x8	1/2

FEMALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510409	1866x4	1/4	1/8
510410	1866x4x4	1/4	1/4
510468	1866x6x2	3/8	1/8
510411	1866x6	3/8	1/4
510412	1866x6x6	3/8	3/8
510469	1866x8x4	1/2	1/4
510470	1866x8	1/2	3/8
510471	1866x8x8	1/2	1/2

MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510472	1868x2.5x1	5/32	1/16
510473	1868x2.5	5/32	1/8
510474	1868x3	3/16	1/8
510413	1868x4	1/4	1/8
510414	1868x4x4	1/4	1/4
510415	1868x4x6	1/4	3/8
510416	1868x6x2	3/8	1/8
510417	1868x6	3/8	1/4
510418	1868x6x6	3/8	3/8
510419	1868x6x8	3/8	1/2
510420	1868x8x4	1/2	1/4
510421	1868x8	1/2	3/8
510422	1868x8x8	1/2	1/2

MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510476	1869x2.5x1	5/32	1/16
510477	1869x2.5	5/32	1/8
510478	1869x3	3/16	1/8
510479	1869x4	1/4	1/8
510423	1869x4x4	1/4	1/4
510424	1869x4x6	1/4	3/8
510480	1869x6x2	3/8	1/8
510425	1869x6	3/8	1/4
510426	1869x6x6	3/8	3/8
510481	1869x6x8	3/8	1/2
510482	1869x8x4	1/2	1/4
510427	1869x8	1/2	3/8
510428	1869x8x8	1/2	1/2

SWIVEL MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510429	1869x4S	1/4	1/8
510430	1869x4x4S	1/4	1/4
510431	1869x4x6S	1/4	3/8
510432	1869x6x2S	3/8	1/8
510433	1869x6S	3/8	1/4
510434	1869x6x6S	3/8	3/8
510435	1869x6x8S	3/8	1/2
510475	1869x8x4S	1/2	1/4
510436	1869x8S	1/2	3/8
510437	1869x8x8S	1/2	1/2

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FASTUBE INSTANT AIR BRAKE / BRASS FITTINGS

FASTUBE INSTANT AIR BRAKE FITTINGS

FEMALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510438	1870x4	1/4	1/8
510439	1870x4x4	1/4	1/4
510488	1870x6x2	3/8	1/8
510440	1870x6	3/8	1/4
510441	1870x6x6	3/8	3/8
510489	1870x8x4	1/2	1/4
510490	1870x8	1/2	3/8
510491	1870x8x8	1/2	1/2

SWIVEL MALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510447	1872x4S	1/4	1/8
510448	1872x4x4S	1/4	1/4
510494	1872x6x2S	3/8	1/8
510449	1872x6S	3/8	1/4
510450	1872x6x6S	3/8	3/8
510498	1872x8x4S	1/2	1/4
510451	1872x8S	1/2	3/8
510495	1869x8x8S	1/2	1/2

SWIVEL 45° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510458	1880x4S	1/4	1/8
510459	1880x4x4S	1/4	1/4
510483	1880x6x2S	3/8	1/8
510460	1880x6S	3/8	1/4
510484	1880x6x6S	3/8	3/8
510485	1880x8x4S	1/2	1/4
510486	1880x8S	1/2	3/8
510487	1880x8x8S	1/2	1/2

SWIVEL MALE RUN TEE

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510442	1871x4S	1/4	1/8
510443	1871x4x4S	1/4	1/4
510444	1871x6S	3/8	1/4
510445	1871x6x6S	3/8	3/8
510492	1871x8x4S	1/2	1/4
510446	1871x8S	1/2	3/8
510493	1871x8x8S	1/2	1/2

MALE BULKHEAD UNION

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510452	1874x4x4	1/4	1/2
510453	1874x6x2	3/8	5/8
510454	1874x8x8	1/2	3/4

FEMALE BULKHEAD UNION

PART NUMBER	INDUSTRY NUMBER	TUBE	THREAD
510461	N/A	1/4	1/8
510462	1873x4x4	1/4	1/4
510463	N/A	3/8	1/4
510496	1873x6x6	3/8	3/8
510497	N/A	1/2	3/8

AIR BRAKE FITTINGS FOR NYLON TUBING

Advantages:
Tubing needs no flaring or bending. No Special tools.
Pressure: To 150 PSI
Used with: SAE J844 Nylon tubing Type 3A & 3B. Inserts required with Type 3B.
Assembly Notes:
1. Be sure tubing is cut square.
2. Be certain battery acid won't drip on tubing.
Identifying characteristics:
DOT or AB designation stamped on nut. Short nut for use on nylon tubing only.

DOT Approved

SLEEVE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508426	1460x4	1/4	25
508427	1460x6	3/8	25
508428	1460x8	1/2	10
508429	1460x10	5/8	10
508430	1460x12	3/4	10

NUT

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508436	1461x4	1/4	10
508437	1461x6	3/8	10
508438	1461x8	1/2	10
508439	1461x10	5/8	10
508440	1461x12	3/4	10

INSERT

Brass

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508431	1484x4	1/4	25
508432	1484x6	3/8	25
508433	1484x8	1/2	25
508434	1484x10	5/8	10
508435	1484x12	3/4	10

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BRASS FITTINGS

AIR BRAKE FITTINGS FOR NYLON TUBING

UNION

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508441	1462x4	1/4	5
508442	1462x6	3/8	5
508443	1462x8	1/2	2
508444	1462x10	5/8	2
508445	1462x12	3/4	2

MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
509160	1468x4x1	1/4	1/16	1
508446	1468x4	1/4	1/8	5
508447	1468x4x4	1/4	1/4	5
508448	1468x4x6	1/4	3/8	5
508449	1468x6x2	3/8	1/8	5
508450	1468x6	3/8	1/4	5
508451	1468x6x6	3/8	3/8	5
508452	1468x6x8	3/8	1/2	5
508453	1468x8x4	1/2	1/4	2
508454	1468x8	1/2	3/8	2
508455	1468x8x8	1/2	1/2	2
509161	1468x8x12	1/2	3/4	1
508456	1468x10x6	5/8	3/8	2
508457	1468x10	5/8	1/2	2
509169	1468x12	3/4	1/2	1
508458	1468x12x12	3/4	3/4	2

90° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
508459	1469x4	1/4	1/8	5
508460	1469x4x4	1/4	1/4	5
508461	1469x4x6	1/4	3/8	5
509162	1469x6x2	3/8	1/8	1
508462	1469x6	3/8	1/4	5
508463	1469x6x6	3/8	3/8	5
508464	1469x6x8	3/8	1/2	5
508465	1469x8x4	1/2	1/4	2
508466	1469x8	1/2	3/8	2
508467	1469x8x8	1/2	1/2	2
508468	1469x10x6	5/8	3/8	2
508469	1469x10	5/8	1/2	2
508470	1469x12	3/4	1/2	2

Part No. 508006
76 pieces • 22 items
12017 steel tray

508426	508433	508442	508450	508463
508427	508436	508443	508455	508466
508428	508437	508446	508459	
508431	508438	508447	508460	
508432	508441	508449	508462	

Numbers in assortment

FEMALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	FEMALE PIPE THREAD	QTY
508471	1466x4	1/4	1/8	5
508472	1466x4x4	1/4	1/4	5
508473	1466x6x2	3/8	1/8	5
508474	1466x6	3/8	1/4	5
508475	1466x6x6	3/8	3/8	5
508476	1466x8	1/2	3/8	2
508477	1466x8x8	1/2	1/2	2
508478	1466x10x6	5/8	3/8	2
508479	1466x10	5/8	1/2	2
508480	1466x12	3/4	1/2	2

45° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
508481	1480x4	1/4	1/8	5
508482	1480x4x4	1/4	1/4	5
508483	1480x6x2	3/8	1/8	5
508484	1480x6	3/8	1/4	5
508485	1480x6x6	3/8	3/8	5
508486	1480x6x8	3/8	1/2	2
508487	1480x8	1/2	3/8	2
509170	1480x8x4	1/2	1/4	1
509168	1480x8x8	1/2	1/2	1
508488	1480x10	5/8	1/2	2

90° FEMALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	FEMALE PIPE THREAD	QTY
508489	1470x4	1/4	1/8	5
508490	1470x4x4	1/4	1/4	5
508491	1470x6x2	3/8	1/8	5
508492	1470x6	3/8	1/4	5
508493	1470x6x6	3/8	3/8	5
508494	1470x8	1/2	3/8	2
508495	1470x8x8	1/2	1/2	2
508496	1470x10	5/8	1/2	2

BULKHEAD UNION

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508497	1474x4	1/4	2
508498	1474x6	3/8	2
508499	1474x8	1/2	2

UNION ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508501	1465x4	1/4	5
508502	1465x6	3/8	5
508503	1465x8	1/2	2
508504	1465x10	5/8	2
508505	1465x12	3/4	2

UNION TEE

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508506	1464x4	1/4	2
509166	1464x6x6x4	3/8x3/8x1/4	1
508507	1464x6	3/8	2
508508	1464x8	1/2	2
509167	1464x8x8x6	1/2x1/2x3/8	1
508509	1464x10	5/8	2

MALE RUN TEE

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
508510	1471x4	1/4	1/8	2
508511	1471x4x4	1/4	1/4	2
508512	1471x6	3/8	1/4	2
508513	1471x6x6x6	3/8	3/8	2
508514	1471x8	1/2	3/8	2
508515	1471x8x8	1/2	1/2	2
508516	1471x10	5/8	1/2	2

MALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
509163	1472x4	1/4	1/8	1
508517	1472x6x6x2	3/8	1/8	2
508518	1472x6	3/8	1/4	2
508519	1472x6x6x6	3/8	3/8	2
509165	1472x8x8x4	1/2	1/4	1
508520	1472x8	1/2	3/8	2
508521	1472x8x8	1/2	1/2	2
508522	1472x10x10x8	5/8	1/2	2

BULKHEAD UNION

Copper to J844 hose

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508523	--	1/4	2
508524	--	3/8	2
508525	--	1/2	2

INSERT

Stainless Steel

PART NUMBER	INDUSTRY NUMBER	TUBE SIZE	QTY
508570	--	1/4	25
508571	--	3/8	5
508572	--	1/2	5
508573	--	5/8	10
508574	--	3/4	10

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BRASS FITTINGS

AIR BRAKE FITTINGS FOR COPPER TUBING

Advantages:
Tubing needs no flaring or bending. No special tools.
Pressure: To 150 PSI
Used with: Copper tubing.
Assembly Notes:
1. Tighten additional turns from hand tight as follows:
   1/4, 3/8 tubing - 1-3/4 turns
   1/2, 5/8, 3/4 tubing - 3-1/4 turns

Identifying characteristics:
AB designation stamped on nut. Long nut is used on copper air brake tubing.

SLEEVE

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	QTY
508301	1360x6	3/8	25
508302	1360x8	1/2	10
508403	1360x10	5/8	10
508404	1360x12	3/4	10

MALE CONNECTOR

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
508309	1368x6x2	3/8	1/8	5
508310	1368x6	3/8	1/4	5
508311	1368x6x6	3/8	3/8	5
508411	1368x6x8	3/8	1/2	5
508312	1368x8x4	1/2	1/4	5
508313	1368x8	1/2	3/8	5
508314	1368x8x8	1/2	1/2	5
508412	1368x10x6	5/8	3/8	2
508413	1368x10	5/8	1/2	2
508414	1368x12	3/4	1/2	2
508415	1368x12x12	3/4	3/4	2

90° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
508317	1369x6x2	3/8	1/8	5
508318	1369x6	3/8	1/4	5
508319	1369x6x6	3/8	3/8	5
508416	1369x6x8	3/8	1/2	5
508320	1369x8x4	1/2	1/4	5
508321	1369x8	1/2	3/8	5
508322	1369x8x8	1/2	1/2	5
508417	1369x10	5/8	1/2	2
508418	--	3/4	1/2	2

NUT

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	QTY
508303	1361x6	3/8	5
508304	1361x8	1/2	5
508405	1361x10	5/8	2
508406	1361x12	3/4	2

90° FEMALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	FEMALE PIPE THREAD	QTY
508315	1370x6	3/8	1/4	5
508316	1370x6x6	3/8	3/8	5

MALE RUN TEE

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
508324	--	3/8	1/8	2
508325	1371x6	3/8	1/4	2
508326	1371x8	1/2	3/8	2
508425	--	5/8	1/2	2

UNION ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	QTY
508308	1365x6	3/8	5
508410	1365x8	1/2	2

UNION

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	QTY
508305	1362x6	3/8	5
508306	1362x8	1/2	5
508407	1362x10	5/8	2
508408	1362x12	3/4	2

45° MALE ELBOW

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
508419	1380x6	3/8	1/4	5
508420	1380x6x6	3/8	3/8	5
508421	1380x8	1/2	3/8	2
508422	1380x10	5/8	1/2	2

MALE BRANCH TEE

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	MALE PIPE THREAD	QTY
508323	1372x6	3/8	1/4	2
508423	1372x8	1/2	3/8	2
508424	1372x10x8x8	5/8	1/2	2

UNION TEE

PART NUMBER	INDUSTRY NUMBER	TUBE O.D.	QTY
508307	1364x6	3/8	2
508409	1364x8	1/2	2

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WEATHERHEAD HOSE ASS. / AIR BRAKE FITTINGS

AIR COMPRESSOR DISCHARGE HOSE - TEFLON

- Ready-made TEFLON® replacements for troublesome copper tubing running from compressor to reservoir.
- Eliminate failures caused by vibration and heat.
- Easy to install with standard brake nuts and sleeves.
- No special fittings or adapters needed.

ILLUSTRATION	PART NUMBER	INDUSTRY NUMBER	LENGTH
1/2" hose ID - 1/2" tube size	418335	WTY824	24"
	418336	WTY830	30"
	418337	WTY836	36"
	418338	WTY848	48"
5/8" hose ID - 5/8" tube size	418339	WTY024	24"
	418340	WTY030	30"
	418341	WTY036	36"
	418342	WTY048	48"
5/8" hose ID - 3/4" tube size	418343	WTY224	24"
	418344	WTY230	30"
	418345	WTY236	36"
	418346	WTY248	48"
1/2" hose ID - 1/2" tube size	418347	WTT824	24"
	418348	WTT836	36"
5/8" hose ID - 5/8" tube size	418349	WTT024	24"
	418350	WTT036	36"
5/8" hose ID - 3/4" tube size	418351	WTT224	24"
	418352	WTT236	36"

AIR BRAKE CHAMBER HOSE LINE

- Low cost.
- Ready to install.
- Available in 9 different lengths.

3/8" ID HOSE ASSEMBLY**

PART NUMBER	INDUSTRY NUMBER	LENGTH
418354	38166-01812	18-1/8"
418355	38166-02137	20-3/8"
418356	38166-02412	24-1/8"
418357	38166-02837	28-3/8"
418358	38166-03012	30-1/8"
418359	38166-03200	32"
418360	38166-03437	34-3/8"
418361	38166-03612	36-1/8"
418362	38166-04112	41-1/8"

1/4" Male Pipe Fitting
3/8" ABS (Air Brake Swivel)

* Includes 3/8" ABS to 1/4" male pipe adapter.

1/2" ID HOSE ASSEMBLY**

PART NUMBER	INDUSTRY NUMBER	LENGTH
418363	38353-01800	18-1/8"
418364	38353-02037	20-3/8"
418365	38353-02400	24-1/8"
418366	38353-02837	28-3/8"
418367	38353-03000	30-1/8"
418368	38353-03200	32"
418369	38353-03437	34-3/8"
418370	38353-03600	36-1/8"
418371	38353-04112	41-1/8"

3/8" Male Pipe Fitting
3/8" ABS (Air Brake Swivel)

** Includes 3/8" ABS to 3/8" male pipe adapter.

DISCHARGE HOSE FOR GM BUSES

- Replaces GM No. 2267157. 3/4" male pipe to flange.

PART NUMBER	INDUSTRY NUMBER	LENGTH
418353	W67157	27-5/8"

FIELD INSTALLATION KIT - FOR 3/8" ID AIR BRAKE HOSE

Repairs break in hose near the valve or brake chamber. Replace and repair while on the road.

- Swivel ends reduce residual torque in hose for longer life, no need to disconnect both ends to service brake system.
- Installs easily in minutes with just a 5/16 hex key (key not included see page D11-6).
- OE on 70% of trailer & tractor production.
- Meets DOT 106 and J1402 requirements.
- Used on 3/8" ID air brake hose with a min. 3/4" OD type A, AI and AIII.
- All parts are non-corroding.
- Fittings and retaining rings are brass. Hose barb and 2-piece shell are nylon.
- Used by: Walbash, Freuehauf, Stoughton, Pines, Great Dane, Kenworth, Merit, Lufkin, Strick, Freightliner, Budd, and Brenner Tanks, etc.
- Fittings are non-reusable 3/8" or 1/2" NPTF swivel ends.

Part No. 508500 2
With 3/8" NPTF Ends

Part No. 508600 2
With 1/2" NPTF Ends

Cutaway view of finished assembly.

E-Z INSTALLATION

Step 1. Disassemble kit.

Step 2. Position hose end on SHELL (A) flush with groove (see arrows).

Step 4. With assembly in hand, squeeze forward ends of shells and push and twist RETAINING RING (D) over shells to its final position as shown by arrows.

Step 3. Insert FITTING (B) into groove and position shell (C) opposite SHELL (A).

Step 5. Insert BARB (E) into fitting. (Threaded end of barb should be greased.) Push and turn to start threads. Using a 5/16" hexagon key continue to push and turn until the barb is flush inside the fitting. **NOTE:** Check final assembly visually to insure that hose has not shifted position during assembly.

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AIR BRAKE HOSE & FITTINGS / VALVES

REUSABLE AIR BRAKE HOSE FITTINGS - SLEEVE TYPE

ASSEMBLY INSTRUCTIONS

- Slide nut and sleeve onto hose, with bevel edge of sleeve facing insert fitting.
- Push hose into fitting until it bottoms.
- Tightens nut down completely.

ILLUSTRATION

Coupling

Nut

Sleeve

Spring Guard

Male Connector

Connector w/Guard

Mender Assembly

PART NUMBER	INDUSTRY NUMBER	HOSE O.D.	HOSE I.D.	PIPE SIZE	QTY
508526	1391x6x6	3/4	3/8	3/8	2
508527	1391x6x8	3/4	3/8	1/2	2
508741	1391x8	7/8	1/2	3/8	2
508742	1391x8x8	7/8	1/2	1/2	2
508528	33806-B	3/4	3/8	--	2
508743	33808-B	7/8	1/2	--	2
508346	33806-A	3/4	3/8	--	2
508744	33808-A	7/8	1/2	--	2
508347	33806-C	3/4	3/8	--	2
508348	33808-C	7/8	1/2	--	2
508340	33806B-Y24	3/4	3/8	1/4	2
508341	33806B-Y26	3/4	3/8	3/8	2
508342	33806B-Y28	3/4	3/8	1/2	2
508745	33808B-Y26	7/8	1/2	3/8	2
508746	33808B-Y28	7/8	1/2	1/2	2
508343	33806B-Y34	3/4	3/8	1/4	2
508344	33806B-Y36	3/4	3/8	3/8	2
508345	33806B-Y38	3/4	3/8	1/2	2
508747	33808B-Y36	7/8	1/2	3/8	2
508748	33808B-Y38	7/8	1/2	1/2	2
508529	33806B-Y06	3/4	3/8	--	2
508749	33808B-Y08	7/8	1/2	--	2

TYPE B AIR BRAKE HOSE

- For tractor to trailer air brake connections and air brake chambers.
- More flexible than rigid air brake tubing.
- Complies with SAE J-1402A and DOT FMVSS 106 specs. Pa. DOT approved.
- Specially formulated for all weather conditions.
- For use with the fittings shown above.
- Synthetic inner tube & cover multi fiber spiral reinforced.

PART NUMBER	INDUSTRY NUMBER	HOSE I.D.	HOSE O.D.	MAX. WORKING PRESSURE PSI	MAX. BURST PRESSURE PSI	MIN. BEND RADIUS	QTY
418148	H33806	3/8	3/4	225	900	3-1/2	50
418149	H33808	1/2	7/8	225	900	4	50

MANUAL FUEL TANK SELECTOR VALVES

- Quick, easy switch-over to auxiliary tanks.
- "Click mechanism" allows proper port selection without looking at the valve.
- Solid brass construction.

PART NUMBER	PIPE SIZE	VALVE STEM LENGTH	PORT
508350	1/4	7/8	4-way

PART NUMBER	PIPE SIZE	VALVE STEM LENGTH	PORT
508351	1/4	3-1/8	4-way

PART NUMBER	PIPE SIZE	VALVE STEM LENGTH	PORT
508352	1/4	7/8	3-way

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VALVES / FLEXIBLE TUBING and INSERTS

ELECTRIC 3-WAY FUEL TANK SELECTOR VALVE

- For auxiliary tank installations.
- NOT for systems with fuel return line between fuel pump and factory tank.
- Low amperage draw.
- Meets OEM specifications.

PART NUMBER	PORT I.D.	VOLTS	
508353	1/4	12DC	Plated Steel

GENERAL USE VALVES

ILLUSTRATION	PART NUMBER	PIPE SIZE	PRESSURE	APPLICATION
Bronze Gate Valves	508354	3/8	200 PSI	water, oil, gas and steam
	508355	1/2	water	
	508362	3/4		
	508363	1	125 PSI steam	
Brass Shut-off Valves	508360	1/8	15 PSI	automotive & industrial
	508361	1/4	15 PSI	
	508349	3/8	15 PSI	NOT FOR LPG, Natural gas, aircraft

MALE PIPE - BOTH ENDS

ILLUSTRATION	PART NUMBER	PIPE SIZE
	508592	1/8
	508593	1/4
	508594	3/8

FEMALE PIPE - BOTH ENDS

ILLUSTRATION	PART NUMBER	PIPE SIZE
	508595	1/8
	508596	1/4
	508597	3/8

VINYL TUBING

- Clear soft pliable tubing for low pressure applications: industrial, laboratory, agricultural. Smooth bore prevents internal build-up.
- Resistant to alcohol, oil, anti-freeze, mineral acid, alkalies.
- F.D.A. approved. Non-toxic, odorless, tasteless.
- Use standard compression fittings & inserts.
- Used as gas lines on some hand held power tools. Check owner's manual.

PART NUMBER	QTY	TUBE O.D.	TUBE I.D.	WALL THICKNESS	MAX WORK PSI at 70°F
52541	50	1/8	.0625	.0313	35
52539	50	3/16	.1250	.0313	35
52535	50	1/4	.1250	.0625	65
52536	50	5/16	.1875	.0625	55
52537	50	3/8	.2500	.0625	55
52538	50	1/2	.3750	.0625	40
52540	50	5/8	.5000	.0625	35

Temperature Range: -5°F to 105°F.

HEATER HOSE VALVES

- General purpose applications; car, truck, farm equipment, all machinery, hot water, etc.
- OE style handle for many truck and equipment manufacturers.
- Internal components compatible with glycol base anti-freeze solutions.
- Steel with brass stem and seat.

ILLUSTRATION	PART NUMBER	HOSE SIZE
	508273	1/2 x 1/2
	508274	5/8 x 5/8
In-Line	508275	3/4 x 3/4
	508276	1 x 1

WATER VALVES

- Solid brass.
- Cast iron handles.

ILLUSTRATION	PART NUMBER	HOSE SIZE	PIPE THREAD
	508280	3/8	3/8
	508281	1/2	3/8
	508282	5/8	3/8
	508283	3/4	3/8
	508284	3/4	1/2

TANK VALVES

- Allows minimum protrusion of valves.
- For tanks, compressors and pneumatic devices.
- Permits inflation, deflation and pressure testing similar to tire valve treatment.
- Standard tire valve core, plus cap.

ILLUSTRATION	PART NUMBER	PIPE THREAD	STEM LENGTH	QTY
	508356	1/8	3/4	2
	508357	1/8	1/2	2
	508358	1/4	1/2	2

BRASS INSERTS FOR FLEXIBLE PLASTIC TUBING

- Use with all types of plastic tubing.
- For standard compression fittings.
- Inserts prevent collapse or damage of tubing.

PART NUMBER	QTY	INDUSTRY NUMBER	TUBE SIZE	INSERT O.D.
508390	50	--	1/8	.090
508391	50	--	3/16	.135
508392	50	2030 x 4	1/4	.165
508393	50	2030 x 5	5/16	.187
508394	50	2030 x 6	3/8	.250
508395	25	2030 x 8	1/2	.375
508396	25	2030 x 10	5/8	.500

Part No. 508007
115 pieces • 6 items
12032 plastic tray

508390 508393
508391 508394
508392 508395

Numbers in assortment

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FLEXIBLE TUBING

NYLON TUBING

- Semi-rigid tubing for agriculture, food processing, and laboratories.
- Good resistance to aliphatics, ammonia, ammonium, hydroxide, benzene and other substances.
- Specifically processed for improved performance and reduced costs in conveying air, gases or liquids.
- Use standard compression fittings. Inserts not required, but add strength.
- Lightweight (1/7 weight of copper), easy to handle.
- Vibration, flex and corrosion resistant. Unaffected by oils, hydraulic fluids, alkalies & most solvents.

Temperature Range: -60°F to 180°F.

PART NUMBER	QTY	TUBE O.D.	TUBE I.D.	WALL THICKNESS	MIN BEND RADIUS INCHES	MAX WORK PSI at 70°F
52525	50	1/8	.096	.015	3/4	333
52526	50	3/16	.142	.023	1-1/2	333
52527	50	1/4	.190	.030	2-1/2	333
52528	50	5/16	.242	.036	3	333
52529	50	3/8	.295	.040	3-1/2	333

POLYETHYLENE TUBING

- FDA approved, conforms to ASTM standards.
- Withstands concentrated sodium hydroxide, hydrochloric acid or diluted acids.
- Use standard compression fittings and inserts.
- Improved performance in industrial and agricultural applications.
- Flexible, low density, lightweight and natural color.

Temperature Range: -40°F to 135°F.

PART NUMBER	TUBE O.D.	TUBE I.D.	WALL THICKNESS	MAX WORK PSI at 70°F	MIN BURST PSI at 70°F	QTY
52530	1/4	.170	.040	150	400	50 ft.
52531	5/16	.1875	.0625	130	480	50 ft.
52532	3/8	.250	.0625	125	400	50 ft.
52533	1/2	.3750	.0625	100	300	50 ft.
52534	5/8	.500	.0625	80	240	50 ft.

STEEL TUBING

Ideal for refrigeration oil lines, vacuum lines, hydraulic brake lines, air conditioning, plus other applications.

- Copper fused, double wall, seamless.
- Easy to bend, flare, weld or solder.
- Use Tool No. 113485 for flaring.
- Meets OEM Specifications.

PART NUMBER	TUBE O.D.	QTY
21425	3/16	25 ft.
21426	1/4	25 ft.
21427	5/16	25 ft.
21428	3/8	25 ft.
21429	6mm	25 ft.

METRIC NYLON TUBING

Used with metric push connect fittings.

Typical Application: Flexible nylon tubing. Used for instrumentation; lubrication and air lines; gas, chemical and oil processing; low pressure hydraulics.
Temperature Range: -40°F to +200°F (-40°C to +93°C).
Available Colors: Natural (NA).
Contains: Ultra-voilet stabilizer.

PART NUMBER	TUBE O.D.	TUBE WALL	MAX. WORK PRES. PSI 75°	MIN. BURST PRES. PSI 75°	MIN. BEND RADIUS 75°F	QTY
52543	4mm	.65mm	250	1,000	.75"	50 ft.
52544	6mm	1mm	250	1,000	1.5"	50 ft.
52545	8mm	1mm	250	1,000	2.25"	50 ft.
52546	10mm	1mm	200	800	3"	50 ft.
52547	12mm	1mm	112	450	3.5"	50 ft.

— NOT FOR AIR BRAKE USE —

NYLON AIR SYSTEM TUBING

SAE J844 TYPE 3A - Single wall extruded. For any air system other than brakes; air horns, fuel lines, lubrication lines radiator shutters, etc.

For any Air System except brakes.

SAE J844 TYPE 3B - Extruded nylon inner tube, one layer nylon reinforcement and a nylon cover. For Air Brake systems. Replaces all steel and copper lines except frame to axle and tractor to trailer hose connections.

For Air Brake Systems.

PART NUMBER	TYPE	TUBE O.D.	MIN. BURST PSI	WALL THICKNESS	MIN. BEND RADIUS	QTY
10931	3A	1/8	1000	.023	0.37	100 ft.
10930	3A	5/32	1000	.032	0.50	100 ft.
10932	3A	1/4	1200	.040	1.00	100 ft.
10933	3B*	3/8	1400	.062	1.50	100 ft.
10934	3B*	1/2	950	.062	2.00	100 ft.
10935	3B*	5/8	900	.092	2.50	50 ft.
10936	3B*	3/4	900	.092	3.00	50 ft.

*** Tube fitting insert required.**

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TUBING TOOLS

RATCH-CUT TUBE AND PIPE CUTTER

Cuts pipe and tubing in confined, nearly inaccessible locations.

- Ratchet action - quick and easy.
- No need to spin tool around pipe.

DESCRIPTION	PART NUMBER	TUBE SIZE
Small Cutter	**113846**	1/8 to 3/8
Large Cutter	**113847**	5/16 to 1-1/8
Sm. Rpl. Wheel	**113848**	
Lg. Rpl. Wheel	**113849**	

- Cuts copper, stainless, aluminum, P.V.C., Plastic Pipe and Tubing.
- 2 sizes cover 1/8 through 1-1/8".
- Replacement wheels available.

TUBING CUTTER

- Rugged Aluminum Die Cast. Machined to precision tolerance. Withstands the roughest service.
- Handles tubing from 1/8 to 1 inch O.D.
- Designed for perfect alignment. Pressure rollers operate on a sliding feed mechanism. Cutter wheel is mounted on a wide axis.
- Built in retractable reamer.

Part No. **11303**

MINI CUTTER

- All nylon construction.
- Especially good in tight and cramped spots.
- For all types of metal tubing.
- Handles tubing sizes from 1/8 to 5/8 inch O.D.

Part No. **11391**

ECONOMY TUBING BENDER

- Bends tubing up to 360° without kinking.
- For thin wall tubing, from 1/8 to 1/2 inch O.D.
- Fast, economical tubing bender for automotive, refrigeration, air conditioning, machine and other professionals.

Part No. **11373**

B13

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CAPLUGS

TAPERED POLYETHYLENE CAPS AND PLUGS

Used to cap or plug brass, malleable iron, copper, and hydraulic fittings, electrical connectors, tubing, fasteners, and machined parts. Special design allows same piece to be used as a cap or a plug.

- **Polyethylene (Red) is highly pliable.**
- **Seals out dust and moisture during storage.**
- **Excellent for thread protection.**
- **Universal applications.**
- **Tapered design provides a snug fit, but are readily removable.**

CLOSURES for UNTHREADED STANDARD WEIGHT PIPE

CAPS

SIZE (INCHES)	CAPLUG NO.	PART NUMBER	QTY
1/8	4	**509115**	100
1/4	6X	**509119**	100
3/8	8X	**509122**	100
1/2	11	**509126**	50
3/4	13X	**509130**	50
1	16	**509134**	50
1-1/4	18X	**509137**	25
1-1/2	210	**509141**	25
2	240	**509146**	25

PLUGS*

SIZE (INCHES)	CAPLUG NO.	PART NUMBER	QTY
1/8	1	**509110**	100
1/4	2X	**509112**	100
3/8	5	**509117**	100
1/2	7	**509120**	100
3/4	10	**509125**	100
1	13	**509129**	50
1-1/4	16	**509134**	50
1-1/2	18	**509136**	50
2	220	**509142**	25

***Recommended Plugs for Schedule 40 Standard Pipe.**

CLOSURES for THREADED EXTERNAL & INTERNAL N.P.T. FITTINGS

CAPS

SIZE (INCHES)	CAPLUG NO.	PART NUMBER	QTY
1/8	4	**509115**	100
1/4	6	**509118**	100
3/8	8X	**509122**	100
1/2	11	**509126**	50
3/4	13X	**509130**	50
1	15X	**509133**	50
1-1/4	18	**509136**	50
1-1/2	20	**509139**	25
2	240	**509146**	25

PLUGS

SIZE (INCHES)	CAPLUG NO.	PART NUMBER	QTY
1/8	2X	**509112**	100
1/4	4	**509115**	100
3/8	6X	**509119**	100
1/2	9	**509123**	100
3/4	12X	**509128**	50
1	14	**509131**	50
1-1/4	17S	**509135**	50
1-1/2	20S	**509140**	25
2	24S	**509145**	25

CLOSURES for TUBING & HYDRAULIC FITTINGS

CAPS

TUBING O.D.	THREAD	CAPLUG NO.	PART NUMBER	QTY
1/8	5/16-24	2	**509111**	100
3/16	3/8-24	3X	**509114**	100
1/4	7/16-20	4X	**509116**	100
5/16	1/2-20	5	**509117**	100
3/8	9/16-18	6X	**509119**	100
3/8	5/8-18	7	**509120**	100
1/2	3/4-16	9X	**509124**	100
5/8	7/8-14	11X	**509127**	50
3/4	1-1/16-12	13X	**509130**	50
1	1-5/16-12	15X	**509133**	50
1-1/4	1-5/8-12	18	**509136**	50
1-1/2	1-7/8-12	20	**509139**	25
1-3/4	2-1/4-12	230	**509144**	25
2	2-1/2-12	250	**509147**	25

PLUGS

TUBING O.D.	THREAD	CAPLUG NO.	PART NUMBER	QTY
1/8	5/16-24	1	**509110**	100
3/16	3/8-24	2	**509111**	100
1/4	7/16-20	3	**509113**	100
5/16	1/2-20	4	**509115**	100
3/8	9/16-18	5	**509117**	100
3/8	5/8-18	6	**509118**	100
1/2	3/4-16	8	**509121**	100
5/8	7/8-14	10	**509125**	100
3/4	1-1/16-12	12X	**509128**	50
1	1-5/16-12	14X	**509132**	50
1-1/4	1-5/8-12	17S	**509135**	50
1-1/2	1-7/8-12	19	**509138**	25
1-3/4	2-1/4-12	221	**509143**	25
2	2-1/2-12	240	**509146**	25

CAPLUGS NUMERICAL LISTING

CAPLUG NO.	PART NUMBER	QTY
1	**509110**	100
2	**509111**	100
2X	**509112**	100
3	**509113**	100
3X	**509114**	100
4	**509115**	100
4X	**509116**	100
5	**509117**	100
6	**509118**	100
6X	**509119**	100
7	**509120**	100
8	**509121**	100
8X	**509122**	100
9	**509123**	100
9X	**509124**	100
10	**509125**	100
11	**509126**	50
11X	**509127**	50
12X	**509128**	50

CAPLUG NO.	PART NUMBER	QTY
13	**509129**	50
13X	**509130**	50
14	**509131**	50
14X	**509132**	50
15X	**509133**	50
16	**509134**	50
17S	**509135**	50
18	**509136**	50
18X	**509137**	25
19	**509138**	25
20	**509139**	25
20S	**509140**	25
210	**509141**	25
220	**509142**	25
221	**509143**	25
230	**509144**	25
24S	**509145**	25
240	**509146**	25
250	**509147**	25

Part No. 501562
420 pieces • 20 items
12017 steel tray

509110	**509116**	**509121**	**509130**
509111	**509117**	**509124**	**509132**
509113	**509118**	**509125**	**509133**
509114	**509119**	**509127**	**509135**
509115	**509120**	**509128**	**509136**

Numbers in assortment

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O-RINGS

Used for sealing in valves, faucets, transmissions, compressors, cylinders, and flanges. Also used for small drive belts.

• Four thicknesses available: 1/16, 3/32, 1/8, 3/16
– THREE COMPOUNDS AVAILABLE –

BUNA-N-70 DUROMETER (NITRILE) BLACK

Due to its excellent resistance to petroleum products, and its ability to be compounded for service over a temperature range of -65° to +275°F (-54°to +135°C), nitrile is the most widely used elastomer in the seal industry today. Most military rubber specifications for fuel and oil resistant MS and AN O-rings require nitrile base compounds. It should be mentioned, however, that to obtain good resistance to low temperature with nitrile compounding, it is almost always necessary to sacrifice some high temperature fuel and oil resistance.
Nitrile compounds are superior to most elastomers with regard to compression set or cold flow, tear, and abrasion resistance. Inherently, they do NOT possess good resistance to ozone, sunlight or weather but this has been substantially improved through compounding.

Nitrile is recommended for:

- General purpose sealing.
- Petroleum oils and fluids.
- Water.
- Silicone greases and oils.
- Di-ester base lubricants (MIL-L-7808).
- Ethylene glycol base fluids (Hydrolubes).

MOST POPULAR GENERAL PURPOSE

VITON-75 DUROMETER (FLUOROCARBON) BLACK

Fluorocarbon elastomers were first introduced in the mid-1950's. Since then they have grown to major importance in the seal industry. Due to wide spectrum chemical compatibility and temperature range, fluorocarbon rubber is the most significant single elastomer development in recent history.
Its working temperature range is considered to be from -20° to +400°F (-29° to +204°C) but it will take temperatures up to 600°F (316°C) for short periods of time. It has been known to seal at -65°F (-54°C) in some static applications. Newer developments have tremendously improved the compression set characteristics of this very useful material.
Compounds made from fluorocarbon elastomers should be considered for use in aircraft, automotive and other mechanical devices requiring maximum resistance to deterioration by test and functional fluids.

Fluorocarbon is recommended for:

- Petroleum oils.
- Di-ester base lubricants (MIL-L-7808, MIL-L-6085).
- Silicate ester base lubricants (MLO 8200, MLO 8515, OS-45).
- Silicone fluids and greases.
- Halogenated hydrocarbons (carbon tetrachloride, trichloroethylene).
- Selected phosphate ester fluids.
- Acids.

FOR MAXIMUM TEMPERATURE AND CHEMICAL RESISTANCE

ETHYLENE PROPYLENE 70 DUROMETER (EPR, EPDM) BLACK

Ethylene has won broad acceptance in the selling world because of its excellent resistance to Skydrol and other phosphate ester type hydraulic fluids.
Ethylene propylene has a temperature range of -65° to +300°F (-54° to +150°C) for most applications.

EP is recommended for:

- Phosphate ester base hydraulic fluids (Skydrol, Fyrquel, Pydraul).
- Steam (to 500°F) (260°C).
- Water.
- Silicone oils and greases.
- Dilute acids.
- Dilute alkalies.
- Ketones (MEK, acetone).
- Alcohols.
- Automotive brake fluids.

FOR NON-PETROLEUM BASED FLUIDS

B14

O-RING APPLICATION GUIDE

P-POOR F-FAIR G-GOOD E-EXCELLENT	BUNA-N	VITON	EPDM
Ozone resistance	P	E	E
Weather resistance	F	E	E
Heat resistance	G	E	E
Chemical resistance	FG	E	E
Oil resistance	E	E	P
Impermeability	G	G	G
Cold resistance	G	FP	GE
Tear resistance	FG	F	GE
Abrasion resistance	G	G	GE
Set resistance	GE	GE	GE
Dynamic resistance	GE	GE	GE
Acid resistance	F	E	G
Tensile strength	GE	GE	GE
Electrical properties	F	F	G
Water/steam resistance	FG	FG	G
Flame resistance	P	E	P

CHEMICAL/FLUIDS RESISTANCE

O-RING RECOMMENDATIONS FOR VARIOUS FLUIDS AND CHEMICALS	BUNA-N	VITON	EPDM
Water	•		•
Petroleum oils & fluids	•	•	
Silicone greases & oils	•	•	•
Di-ester based lubricants	•	•	
Ethylene glycol based fluids	•		
Phosphate ester based hydraulic fluids			•
Steam (to 400° F; 204°C)			•
Diluted acids			•
Acids		•	
Diluted alkalies			•
Ketones			•
Alcohols			•
Automobile brake fluids			•
Silicone ester based lubricants		•	
Halogenated hydrocarbons		•	

TEMPERATURE RANGE

COMPOUND	°F	°C
Buna-N (Nitrile)	-65° to+ 300°	-54° to +135°
Ethylene	-65° to+ 300°	-54° to +135°
Propylene		
Viton		
(Fluorocarbon)	-20° to +400°	-29° to +204°

• A "Durometer" rating is a hardness rating of any O-Ring material. A "Durometer" rating of 70 is the accepted industry standard.

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O-RINGS

STANDARD CUT O-RINGS

BUNA-N	QTY	VITON	QTY	ETHYLENE PROPYLENE	QTY	IND. NO.	THICKNESS (INCHES)	I.D. (INCHES)	O.D. (INCHES)
14003	25	**15003**	10	**16003**	10	003	1/16	1/16	3/16
14004	25	**15004**	10	**16004**	10	004	1/16	5/64	13/64
14005	25	**15005**	10	**16005**	10	005	1/16	3/32	7/32
14006	50	**15006**	10	---	-	006	1/16	1/8	1/4
14007	50	**15007**	10	---	-	007	1/16	5/32	9/32
14008	50	**15008**	10	---	-	008	1/16	3/16	5/16
14009	50	**15009**	10	---	-	009	1/16	7/32	11/32
14010	50	**15010**	10	---	-	010	1/16	1/4	3/8
14011	50	**15011**	10	---	-	011	1/16	5/16	7/16
14012	50	**15012**	10	---	-	012	1/16	3/8	1/2
14013	50	**15013**	10	---	-	013	1/16	7/16	9/16
14014	25	**15014**	10	---	-	014	1/16	1/2	5/8
14015	50	**15015**	10	---	-	015	1/16	9/16	11/16
14016	25	**15016**	10	---	-	016	1/16	5/8	3/4
14017	50	**15017**	10	---	-	017	1/16	11/16	13/16
14018	25	**15018**	10	---	-	018	1/16	3/4	7/8
14019	25	**15019**	10	---	-	019	1/16	13/16	15/16
14020	25	**15020**	10	---	-	020	1/16	7/8	1
14021	25	**15021**	10	---	-	021	1/16	15/16	1-1/16
14022	25	**15022**	10	---	-	022	1/16	1	1-1/8
14023	25	**15023**	10	**16023**	10	023	1/16	1-1/16	1-3/16
14024	25	**15024**	10	**16024**	10	024	1/16	1-1/8	1-1/4
14025	25	**15025**	10	**16025**	10	025	1/16	1-3/16	1-5/16
14026	25	**15026**	10	**16026**	10	026	1/16	1-1/4	1-3/8
14027	25	**15027**	10	**16027**	10	027	1/16	1-5/16	1-7/16
14028	25	**15028**	10	**16028**	10	028	1/16	1-3/8	1-1/2
14029	25	**15029**	10	**16029**	10	029	1/16	1-1/2	1-5/8
14030	25	**15030**	10	**16030**	10	030	1/16	1-5/8	1-3/4
14031	25	**15031**	10	**16031**	10	031	1/16	1-3/4	1-7/8
14032	25	**15032**	10	**16032**	10	032	1/16	1-7/8	2
14033	25	**15033**	10	**16033**	10	033	1/16	2	2-1/8
14034	25	**15034**	10	**16034**	10	034	1/16	2-1/8	2-1/4
14035	25	**15035**	10	**16035**	10	035	1/16	2-1/4	2-3/8
14108	25	**15108**	10	---	-	108	3/32	1/4	7/16
14109	25	**15109**	10	---	-	109	3/32	5/16	1/2
14110	50	**15110**	10	---	-	110	3/32	3/8	9/16
14111	50	**15111**	10	---	-	111	3/32	7/16	5/8
14112	50	**15112**	10	---	-	112	3/32	1/2	11/16
14113	50	**15113**	10	---	-	113	3/32	9/16	3/4
14114	50	**15114**	10	---	-	114	3/32	5/8	13/16
14115	50	**15115**	10	---	-	115	3/32	11/16	7/8
14116	50	**15116**	10	---	-	116	3/32	3/4	15/16
14117	25	**15117**	10	---	-	117	3/32	13/16	1
14118	25	**15118**	10	---	-	118	3/32	7/8	1-1/16
14119	25	**15119**	10	---	-	119	3/32	15/16	1-1/8
14120	25	**15120**	10	---	-	120	3/32	1	1-3/16
14121	25	**15121**	10	---	-	121	3/32	1-1/16	1-1/4
14122	25	**15122**	10	---	-	122	3/32	1-1/8	1-5/16
14123	25	**15123**	10	---	-	123	3/32	1-3/16	1-3/8
14124	25	**15124**	10	---	-	124	3/32	1-1/4	1-7/16
14125	25	**15125**	10	---	-	125	3/32	1-5/16	1-1/2
14126	25	**15126**	10	---	-	126	3/32	1-3/8	1-9/16
14127	25	**15127**	10	---	-	127	3/32	1-7/16	1-5/8
14128	25	**15128**	10	---	-	128	3/32	1-1/2	1-11/16
14129	25	**15129**	10	**16129**	10	129	3/32	1-9/16	1-3/4
14130	25	**15130**	10	**16130**	10	130	3/32	1-5/8	1-13/16
14131	25	**15131**	10	**16131**	10	131	3/32	1-11/16	1-7/8
14132	25	**15132**	5	**16132**	10	132	3/32	1-3/4	1-15/16
14133	25	**15133**	5	**16133**	10	133	3/32	1-13/16	2
14134	25	**15134**	5	**16134**	10	134	3/32	1-7/8	2-1/16
14135	25	**15135**	5	**16135**	10	135	3/32	1-15/16	2-1/8
14136	25	**15136**	5	**16136**	10	136	3/32	2	2-3/16
14137	25	**15137**	5	**16137**	10	137	3/32	2-1/16	2-1/4
14138	25	**15138**	5	**16138**	10	138	3/32	2-1/8	2-5/16
14139	25	**15139**	5	**16139**	10	139	3/32	2-3/16	2-3/8
14140	25	**15140**	5	**16140**	10	140	3/32	2-1/4	2-7/16
14141	25	**15141**	5	**16141**	10	141	3/32	2-5/16	2-1/2
14142	25	**15142**	5	**16142**	10	142	3/32	2-3/8	2-9/16
14143	25	**15143**	5	**16143**	10	143	3/32	2-7/16	2-5/8
14144	25	**15144**	5	**16144**	10	144	3/32	2-1/2	2-11/16
14145	25	**15145**	5	**16145**	10	145	3/32	2-9/16	2-3/4
14146	25	**15146**	5	**16146**	10	146	3/32	2-5/8	2-13/16
14147	25	**15147**	5	**16147**	10	147	3/32	2-11/16	2-7/8
14148	25	**15148**	5	**16148**	10	148	3/32	2-3/4	2-15/16
14149	25	**15149**	5	**16149**	10	149	3/32	2-13/16	3
14150	25	**15150**	5	**16150**	10	150	3/32	2-7/8	3-1/16
14151	25	**15151**	5	**16151**	10	151	3/32	3	3-3/16

BUNA-N	QTY	VITON	QTY	ETHYLENE PROPYLENE	QTY	IND. NO.	THICKNESS (INCHES)	I.D. (INCHES)	O.D. (INCHES)
14201	25	**15201**	10	**16201**	10	201	1/8	3/16	7/16
14202	25	**15202**	10	**16202**	10	202	1/8	1/4	1/2
14203	25	**15203**	10	**16203**	10	203	1/8	5/16	9/16
14204	25	**15204**	10	**16204**	10	204	1/8	3/8	5/8
14205	25	**15205**	10	**16205**	10	205	1/8	7/16	11/16
14206	25	**15206**	10	**16206**	10	206	1/8	1/2	3/4
14207	25	**15207**	10	**16207**	10	207	1/8	9/16	13/16
14208	25	**15208**	10	**16208**	10	208	1/8	5/8	7/8
14209	25	**15209**	10	**16209**	10	209	1/8	11/16	15/16
14210	50	**15210**	10	---	-	210	1/8	3/4	1
14211	50	**15211**	10	---	-	211	1/8	13/16	1-1/16
14212	50	**15212**	5	---	-	212	1/8	7/8	1-1/8
14213	50	**15213**	5	---	-	213	1/8	15/16	1-3/16
14214	24	**15214**	5	---	-	214	1/8	1	1-1/4
14215	24	**15215**	5	---	-	215	1/8	1-1/16	1-5/16
14216	24	**15216**	5	---	-	216	1/8	1-1/8	1-3/8
14217	24	**15217**	5	---	-	217	1/8	1-3/16	1-7/16
14218	24	**15218**	5	---	-	218	1/8	1-1/4	1-1/2
14219	24	**15219**	5	---	-	219	1/8	1-5/16	1-9/16
14220	24	**15220**	5	---	-	220	1/8	1-3/8	1-5/8
14221	24	**15221**	5	---	-	221	1/8	1-7/16	1-11/16
14222	12	**15222**	5	---	-	222	1/8	1-1/2	1-3/4
14223	10	**15223**	5	---	-	223	1/8	1-5/8	1-7/8
14224	12	**15224**	5	---	-	224	1/8	1-3/4	2
14225	12	**15225**	5	---	-	225	1/8	1-7/8	2-1/8
14226	12	**15226**	5	---	-	226	1/8	2	2-1/4
14227	10	**15227**	5	---	-	227	1/8	2-1/8	2-3/8
14228	12	**15228**	5	---	-	228	1/8	2-1/4	2-1/2
14229	10	**15229**	5	---	-	229	1/8	2-3/8	2-5/8
14230	10	**15230**	5	**16230**	5	230	1/8	2-1/2	2-3/4
14231	10	**15231**	5	**16231**	5	231	1/8	2-5/8	2-7/8
14232	10	**15232**	5	**16232**	5	232	1/8	2-3/4	3
14233	10	**15233**	5	**16233**	5	233	1/8	2-7/8	3-1/8
14234	10	**15234**	5	**16234**	5	234	1/8	3	3-1/4
14235	10	**15235**	2	**16235**	5	235	1/8	3-1/8	3-3/8
14236	10	**15236**	2	**16236**	5	236	1/8	3-1/4	3-1/2
14237	10	**15237**	2	**16237**	5	237	1/8	3-3/8	3-5/8
14238	10	**15238**	2	**16238**	5	238	1/8	3-1/2	3-3/4
14239	10	**15239**	2	**16239**	5	239	1/8	3-5/8	3-7/8
14240	10	**15240**	2	**16240**	5	240	1/8	3-3/4	4
14241	10	**15241**	2	**16241**	5	241	1/8	3-7/8	4-1/8
14242	10	**15242**	2	**16242**	5	242	1/8	4	4-1/4
14243	10	**15243**	2	**16243**	5	243	1/8	4-1/8	4-3/8
14244	10	**15244**	2	**16244**	5	244	1/8	4-1/4	4-1/2
14245	10	**15245**	2	**16245**	5	245	1/8	4-3/8	4-5/8
14246	10	**15246**	2	**16246**	5	246	1/8	4-1/2	4-3/4
14247	10	**15247**	2	**16247**	5	247	1/8	4-5/8	4-7/8
14248	10	**15248**	2	**16248**	5	248	1/8	4-3/4	5
14249	10	**15249**	2	**16249**	5	249	1/8	4-7/8	5-1/8
14250	10	**15250**	2	**16250**	2	250	1/8	5	5-1/4
14251	10	**15251**	2	**16251**	2	251	1/8	5-1/8	5-3/8
14252	10	**15252**	2	**16252**	2	252	1/8	5-1/4	5-1/2
14253	10	**15253**	2	**16253**	2	253	1/8	5-3/8	5-5/8
14254	10	**15254**	2	**16254**	2	254	1/8	5-1/2	5-3/4
14255	10	**15255**	2	**16255**	2	255	1/8	5-5/8	5-7/8
14256	10	**15256**	2	**16256**	2	256	1/8	5-3/4	6
14257	10	**15257**	2	**16257**	2	257	1/8	5-7/8	6-1/8
14258	10	**15258**	2	**16258**	2	258	1/8	6	6-1/4
14259	10	**15259**	2	**16259**	2	259	1/8	6-1/4	6-1/2
14260	10	**15260**	2	**16260**	2	260	1/8	6-1/2	6-3/4
14310	10	**15310**	5	**16310**	10	310	3/16	1/2	7/8
14312	10	**15312**	5	**16312**	10	312	3/16	5/8	1
14314	10	**15314**	5	**16314**	10	314	3/16	3/4	1-1/8
14316	10	**15316**	5	**16316**	10	316	3/16	7/8	1-1/4
14317	10	**15317**	5	**16317**	10	317	3/16	15/16	1-5/16
14318	10	**15318**	5	**16318**	10	318	3/16	1	1-3/8
14319	10	**15319**	5	**16319**	10	319	3/16	1-1/16	1-7/16
14320	10	**15320**	5	**16320**	10	320	3/16	1-1/8	1-1/2
14322	10	**15322**	2	**16322**	10	322	3/16	1-1/4	1-5/8
14324	10	**15324**	2	**16324**	10	324	3/16	1-3/8	1-3/4
14325	12	**15325**	2	---	-	325	3/16	1-1/2	1-7/8
14326	12	**15326**	2	---	-	326	3/16	1-5/8	2
14327	10	**15327**	2	---	-	327	3/16	1-3/4	2-1/8
14328	12	**15328**	2	---	-	328	3/16	1-7/8	2-1/4
14329	10	**15329**	2	---	-	329	3/16	2	2-3/8
14330	10	**15330**	2	**16330**	10	330	3/16	2-1/8	2-1/2
14331	12	**15331**	2	**16331**	10	331	3/16	2-1/4	2-5/8

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O-RINGS

STANDARD CUT O-RINGS

BUNA-N	QTY	VITON	QTY	ETHYLENE PROPYLENE	QTY	IND. NO.	THICKNESS (INCHES)	I.D. (INCHES)	O.D. (INCHES)
14332	10	**15332**	2	**16332**	5	332	3/16	2-3/8	2-3/4
14333	12	**15333**	2	**16333**	5	333	3/16	2-1/2	2-7/8
14334	10	**15334**	2	**16334**	5	334	3/16	2-5/8	3
14335	10	**15335**	2	**16335**	5	335	3/16	2-3/4	3-1/8
14337	10	**15337**	2	**16337**	5	337	3/16	3	3-3/8
14338	12	**15338**	2	**16338**	5	338	3/16	3-1/8	3-1/2
14339	10	**15339**	2	**16339**	5	339	3/16	3-1/4	3-5/8
14340	10	**15340**	2	**16340**	5	340	3/16	3-3/8	3-3/4
14341	10	**15341**	2	**16341**	5	341	3/16	3-1/2	3-7/8

BUNA-N	QTY	VITON	QTY	ETHYLENE PROPYLENE	QTY	IND. NO.	THICKNESS (INCHES)	I.D. (INCHES)	O.D. (INCHES)
14342	10	**15342**	2	**16342**	5	342	3/16	3-5/8	4
14343	10	**15343**	2	**16343**	5	343	3/16	3-3/4	4-1/8
14344	10	**15344**	2	**16344**	5	344	3/16	3-7/8	4-1/4
14345	10	**15345**	2	**16345**	5	345	3/16	4	4-3/8
14346	10	**15346**	2	**16346**	2	346	3/16	4-1/8	4-1/2
14347	10	**15347**	2	**16347**	2	347	3/16	4-1/4	4-5/8
14348	10	**15348**	2	**16348**	2	348	3/16	4-3/8	4-3/4
14349	10	**15349**	2	**16349**	2	349	3/16	4-1/2	4-7/8
14350	10	**15350**	2	**16350**	2	350	3/16	4-5/8	5

SQUARE CUT O-RINGS

THE SEAL FOR ALL STATIC APPLICATIONS
Hydraulic fluids, lubricating oils, gasoline, mineral oil, diesel fuel, pneumatic service.

- **Made from Buna-N* 70**
- **Interchangeable with standard O-rings, size for size, from 3/16" up to 18" ID.**
- **Fit the same gland as standard O-rings.**
- **Outperforms and outlasts standard O-rings in most static applications.**
- **Offered in the same material selection as standard O-rings; meets ASTM and SAE requirements.**
- **Closer cross-sectional tolerances can be held on the square cut than on most standard O-rings.**
- **Temperature range: -40°F to 300°F.**

PART NUMBER	INDUSTRY NUMBER	INSIDE DIA.	OUTSIDE DIA.	WALL THICKNESS	CUT THICKNESS	QTY
17012	012	3/8	1/2	1/16	.066 ± .004	50
17013	013	7/16	9/16	1/16	.066 ± .004	50
17015	015	9/16	11/16	1/16	.066 ± .004	50
17017	017	11/16	13/16	1/16	.066 ± .004	50
17110	110	3/8	9/16	3/32	.099 ± .004	50
17111	111	7/16	5/8	3/32	.099 ± .004	50
17112	112	1/2	11/16	3/32	.099 ± .004	50
17113	113	9/16	3/4	3/32	.099 ± .004	50
17114	114	5/8	13/16	3/32	.099 ± .004	50
17115	115	11/16	7/8	3/32	.099 ± .004	50
17116	116	3/4	15/16	3/32	.099 ± .004	50
17210	210	3/4	1	1/8	.134 ± .004	50
17211	211	13/16	1-1/16	1/8	.134 ± .004	50
17212	212	7/8	1-1/8	1/8	.134 ± .004	50
17213	213	15/16	1-3/16	1/8	.134 ± .004	50
17214	214	1	1-1/4	1/8	.134 ± .004	25

PART NUMBER	INDUSTRY NUMBER	INSIDE DIA.	OUTSIDE DIA.	WALL THICKNESS	CUT THICKNESS	QTY
17215	215	1-1/16	1-5/16	1/8	.134 ± .004	25
17216	216	1-1/8	1-3/8	1/8	.134 ± .004	25
17217	217	1-3/16	1-7/16	1/8	.134 ± .004	25
17218	218	1-1/4	1-1/2	1/8	.134 ± .004	25
17219	219	1-5/16	1-9/16	1/8	.134 ± .004	25
17220	220	1-3/8	1-5/8	1/8	.134 ± .004	25
17221	221	1-7/16	1-11/16	1/8	.134 ± .004	25
17222	222	1-1/2	1-3/4	1/8	.203 ± .004	15
17224	224	1-3/4	2	1/8	.203 ± .004	15
17325	325	1-1/2	1-7/8	3/16	.203 ± .004	15
17326	326	1-5/8	2	3/16	.203 ± .004	15
17328	328	1-7/8	2-1/4	3/16	.203 ± .004	15
17331	331	2-1/4	2-5/8	3/16	.203 ± .004	15
17333	333	2-1/2	2-7/8	3/16	.203 ± .004	15
17338	338	3-1/8	3-1/2	3/16	.203 ± .004	15

* Buna-N is the most widely used synthetic rubber for O-ring seals. Its wide acceptance as a sealing material is due to its economic cost, inherent resistance to petroleum-based products and dependability over a temperature range which covers most industry applications.

METRIC BUNA-N 70 (Nitrile) O-RINGS

PART NUMBER	QTY	THKS. (MM)	I.D. (MM)	O.D. (MM)
553500	25	1.5	3	6
553501	25	1.5	4	7
553502	25	1.5	4.5	7.5
553503	25	1.5	5	8
553504	25	1.5	6	9
553505	25	1.5	7	10
553506	25	1.5	7.5	10.5
553507	25	1.5	8	11
553508	25	1.5	9	12
553509	25	1.5	10	13
553510	25	2.0	3	7
553511	25	2.0	4	8
553512	25	2.0	5	9
553513	25	2.0	6	10
553514	25	2.0	7	11
553515	25	2.0	8	12
553516	25	2.0	10	14
553517	25	2.0	11	15
553518	25	2.0	12	16
553519	25	2.0	13	17
553520	25	2.0	14	18
553521	25	2.0	15	19
553522	25	2.0	16	20
553523	25	2.0	17	21
553524	25	2.0	18	22
553525	25	2.0	19	23
553526	25	2.0	20	24
553527	25	2.0	21	25
553528	25	2.0	22	26
553529	25	2.0	23	27

PART NUMBER	QTY	THKS. (MM)	I.D. (MM)	O.D. (MM)
553530	25	2.0	24	28
553531	25	2.0	25	29
553532	25	2.0	26	30
553533	25	2.0	27	31
553534	25	2.0	28	32
553535	25	2.0	30	34
553536	25	2.0	31	35
553537	25	2.0	32	36
553538	25	2.0	33	37
553539	25	2.0	34	38
553540	25	2.0	35	39
553541	25	2.0	36	40
553542	25	2.0	37	41
553543	25	2.0	38	42
553544	25	2.0	39	43
553545	25	2.0	40	44
553546	25	2.5	10	15
553547	25	2.5	11	16
553548	25	2.5	12	17
553549	25	2.5	14	19
553550	25	2.5	16	21
553551	25	2.5	17	22
553552	25	2.5	19	24
553553	25	2.5	20	25
553554	25	3.0	10	16
553555	25	3.0	11	17
553556	25	3.0	12	18
553557	25	3.0	13	19
553558	25	3.0	14	20
553559	25	3.0	15	21

PART NUMBER	QTY	THKS. (MM)	I.D. (MM)	O.D. (MM)
553560	25	3.0	16	22
553561	25	3.0	17	23
553562	25	3.0	18	24
553563	25	3.0	19	25
553564	25	3.0	20	26
553565	25	3.0	22	28
553566	25	3.0	24	30
553567	25	3.0	25	31
553568	25	3.0	26	32
553569	25	3.0	27	33
553570	25	3.0	28	34
553571	25	3.0	29	35
553572	25	3.0	30	36
553573	25	3.0	31	37
553574	25	3.0	32	38
553575	25	3.0	33	39
553576	25	3.0	34	40
553577	25	3.0	35	41
553578	25	3.0	36	42
553579	25	3.0	37	43
553580	25	3.0	38	44
553581	25	3.0	39	45
553582	25	3.0	40	46
553583	10	3.0	41	47
553584	10	3.0	42	48
553585	10	3.0	43	49
553586	10	3.0	44	50
553587	10	3.0	45	51
553588	10	3.0	46	52
553589	10	3.0	47	53

PART NUMBER	QTY	THKS. (MM)	I.D. (MM)	O.D. (MM)
553590	10	3.0	48	54
553591	10	3.0	49	55
553592	10	3.0	50	56
553593	25	4.0	20	28
553594	25	4.0	22	30
553595	25	4.0	23	31
553596	25	4.0	24	32
553597	25	4.0	25	33
553598	25	4.0	26	34
553599	25	4.0	27	35
553600	25	4.0	28	36
553601	10	4.0	30	38
553602	10	4.0	31	39
553603	10	4.0	32	40
553604	10	4.0	34	42
553605	10	4.0	35	43
553606	10	4.0	36	44
553607	10	4.0	37	45
553608	10	4.0	38	46
553609	10	4.0	40	48
553610	10	4.0	42	50
553611	10	4.0	44	52
553612	10	4.0	46	54
553613	10	4.0	48	56
553614	10	4.0	50	58
553615	10	4.0	52	60
553616	10	4.0	54	62
553617	10	4.0	56	64
553618	10	4.0	58	66
553619	10	4.0	60	68

DIN 3880

THICKNESS GAUGE (in millimeters)

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O-RINGS

Contents of assortments are elevated for display purposes only.

CATERPILLAR O-RING ASSORTMENTS

The right assortment for servicing Caterpillar heavy duty equipment.

Part No. 10304
80 pieces • 8 items
12049 plastic tray

14210	14222	14226
14214	14224	14228
14219	14225	

Numbers in assortment

Part No. 501463
145 pieces • 8 items
12061 steel tray

14210	14222	14226
14214	14224	14228
14219	14225	

Numbers in assortment

O-RING ASSORTMENTS

Thickness gauge built right into the case itself, for quick identification.

❶ Handy dimension chart by industry number.
❷ Industry number permanently imprinted in heavy duty plastic case.
❸ O-Rings fit neatly on size post or in holes.

Industry Numbers in Assortments 14001, 15002 & 16001

006	009	012	112	115	211	214	217	220	325
007	010	110	113	116	212	215	218	221	326
008	011	111	114	210	213	216	219	222	327

Numbers in assortment

– THREE COMPOUNDS AVAILABLE –

BUNA-N-70 DUROMETER
(NITRILE)
Most Popular • General Purpose
Part No. 14001
382 pieces • 30 items

006	009	012	112	115	211	214	217	220	325
007	010	110	113	116	212	215	218	221	326
008	011	111	114	210	213	216	219	222	327

Numbers in assortment

VITON-75 DUROMETER
(FLUOROCARBON)
For Max Temperature & Chemical Resistance
Part No. 15001
382 pieces • 30 items

006	009	012	112	115	211	214	217	220	325
007	010	110	113	116	212	215	218	221	326
008	011	111	114	210	213	216	219	222	327

Numbers in assortment

ETHYLENE PROPYLENE DUROMETER
(EPR, EPDM)
For Non-Petroleum Based Fluids
Part No. 16001
382 pieces • 30 items

006	009	012	112	115	211	214	217	220	325
007	010	110	113	116	212	215	218	221	326
008	011	111	114	210	213	216	219	222	327

Numbers in assortment

BUNA-N O-RING ASSORTMENTS

Sizes: 1/8'' I.D. through 11/16'' I.D.
Part No. 10301
120 pieces • 12 items • 12027 plastic tray

14006	14008	14010	14012	14112	14114
14007	14009	14011	14111	14113	14115

Numbers in assortment

Sizes: 3/4'' I.D. through 1-7/16'' I.D.
Part No. 10302
96 pieces • 12 items • 12039 plastic tray

14210	14212	14214	14216	14218	14220
14211	14213	14215	14217	14219	14221

Numbers in assortment

Sizes: 7mm I.D. x 30mm I.D.
Part No. 553435
72 pieces • 12 items • 12030 plastic tray

553505	553515	553546	553550	553558	553567
553509	553516	553549	553553	553564	553572

Numbers in assortment

Small Diameter
Sizes: 1/8'' I.D. through 1'' I.D.
Part No. 501025
284 pieces • 22 items
12017 steel tray

14006	14010	14015	14112	14116	14213
14007	14011	14017	14113	14210	14214
14008	14012	14110	14114	14211	
14009	14013	14111	14115	14212	

Numbers in assortment

Large Diameter
Sizes: 1-1/16'' I.D. through 3-1/8'' I.D.
Part No. 501070
60 pieces • 15 items
12050 steel tray

14215	14218	14221	14325	14331
14216	14219	14222	14326	14333
14217	14220	14224	14328	14338

Numbers in assortment

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O-RINGS

SQUARE CUT O-RING ASSORTMENTS

Sizes: 3/8" I.D. through 11/16" I.D.
Part No. 220301
90 pieces • 6 items • 12042 plastic tray

17012	17112	17114
17111	17113	17115

Numbers in assortment

Sizes: 3/4" I.D. through 1-7/16" I.D.
Part No. 220302
90 pieces • 12 items • 12039 plastic tray

17210	17212	17214	17216	17218	17220
17211	17213	17215	17217	17219	17221

Numbers in assortment

Small Diameter
Sizes: 3/16" I.D. through 1" I.D.
Part No. 501305
355 pieces • 16 items
12050 steel tray

17012	17017	17112	17115	17211	17214
17013	17110	17113	17116	17212	
17015	17111	17114	17210	17213	

Numbers in assortment

Large Diameter
Sizes: 1-1/16" I.D. through 3-1/8" I.D.
Part No. 501306
110 pieces • 15 items
12050 steel tray

17215	17218	17221	17325	17331
17216	17219	17222	17326	17333
17217	17220	17224	17328	17338

Numbers in assortment

"E-Z SPLICE" O-RING SPLICING KIT

- **Complete repair in 60 seconds.**
- **Contains everything needed for "on the spot" stationary O-Ring repairs.**
- **Kit contains complete, easy to follow instructions.**

Part No. 410001
Contains Cutting Fixture and Blade, Industrial Adhesive and 3 ft. lengths of 4 popular "Buna-N-Rubber" Cord Stock sizes.

'E-Z SPLICE' REFILLS

11301	Cutting blade	**410403**	1/8" x 3 ft. cord stock
910776	Industrial strength adhesive	**410404**	3/16" x 3 ft. cord stock
410401	Cutting fixture	**410405**	1/4" x 3 ft. cord stock
410402	3/32" x 3 ft. cord stock		

HYDRAULIC O-RINGS

Replacement o-rings for hydraulic tube fittings.

- **Made from Buna-N, 90 Durometer.**
- **Conforms to SAEJ515 type CH, SAEJ1926 (MS16142).**
- **Temperature range -40°F to +250°F (-40°C to +121°C).**
- **Not recommended for use with straight synthetic hydraulic fluids.**

STRAIGHT THREAD

Used on Boss fittings and pipe fittings.

TUBE O.D.	FITS THREAD SIZE	"W" THICKNESS (INCHES)	I.D. (INCHES)	PART NUMBER	QTY	INDUSTRY NO.
1/4	7/16-20	.072	.351	**17420**	10	7629 x 4
5/16	1/2-20	.072	.414	**17421**	10	7629 x 5
3/8	9/16-18	.078	.468	**17422**	10	7629 x 6
1/2	3/4-16	.087	.644	**17423**	10	7629 x 8
5/8	7/8-14	.097	.755	**17424**	10	7629 x 10
3/4	1-1/16-12	.116	.924	**17425**	10	7629 x 12
1	1-5/16-12	.116	1.171	**17426**	10	7629 x 16
1-1/4	1-5/8-12	.118	1.475	**17427**	10	7629 x 20
1-1/2	1-7/8-12	.118	1.720	**17428**	5	7629 x 24
2	2-1/2-12	.118	2.337	**17429**	5	7629 x 32

FLAT FACE

Used on flat face o-ring fittings.

TUBE O.D.	FITS THREAD SIZE	"W" THICKNESS (INCHES)	I.D. (INCHES)	PART NUMBER	QTY	INDUSTRY NO.
1/4	9/16-18	.070	.301	**17401**	25	4629 x 4
3/8	11/16-16	.070	.364	**17402**	25	4629 x 6
1/2	13/16-16	.070	.489	**17403**	25	4629 x 8
5/8	1-14	.070	.614	**17404**	25	4629 x 10
3/4	1-3/16-12	.070	.739	**17405**	25	4629 x 12
1	1-7/16-12	.070	.926	**17406**	25	4629 x 16
1-1/4	1-11/16-12	.070	1.176	**17407**	25	4629 x 20
1-1/2	2-12	.070	1.489	**17408**	25	4629 x 24

SPLIT FLANGE

Used on split flange fittings.

FLANGE STYLE (INCHES)	"W" THICKNESS (INCHES)	I.D. (INCHES)	PART NUMBER	QTY	INDUSTRY NO.
1/2	.139	.734	**17440**	10	8 x 252
3/4	.139	.984	**17441**	10	12 x 252
1	.139	1.296	**17442**	10	16 x 252
1-1/4	.139	1.484	**17443**	10	20 x 252
1-1/2	.139	1.859	**17444**	5	24 x 252
2	.139	2.234	**17445**	5	32 x 252

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GREASE FITTINGS

AUTOMOTIVE GREASE FITTINGS

- **Contains the most popular standard and metric grease fittings.**

Steel
Part No. 415103
400 pieces • 18 items
12071 steel tray

10830	10834	10840	532094	532098
10831	10835	532091	532095	532099
10832	10836	532092	532096	
10833	10838	532093	532097	

Numbers in assortment

INDUSTRIAL GREASE FITTINGS

- **Includes standard and giant button head styles.**

Steel
Part No. 10809
294 pieces • 17 items
12017 steel tray

10830	10834	10838	10842	10857
10831	10835	10839	10847	
10832	10836	10840	10848	
10833	10837	10841	10856	

Numbers in assortment

GREASE FITTING TOOL ASSORTMENTS

Steel
Part No. 10804
116 pieces • 12 items
12029 plastic tray

10830	10834	10840
10831	10835	10842
10832	10836	532091
10833	10838	532094

Numbers in assortment

Steel w/Removing Tool
Part No. 10805
117 pieces • 13 items
12029 plastic tray

10830	10834	10840	532091
10831	10835	10842	532094
10832	10836	10880	
10833	10838		

Numbers in assortment

SELF-TAPPING GREASE FITTINGS

Steel
Part No. 10951
35 pieces • 4 items
12024 plastic tray

10982	10983	10984	10985

Numbers in assortment

METRIC GREASE FITTINGS

Steel
Part No. 53206
48 pieces • 9 items
12030 plastic tray

532091	532094	532097
532092	532095	532098
532093	532096	532099

Numbers in assortment

GREASE FITTING and BRAKE BLEEDER SCREW CAPS

Prevent clogged grease fittings & brake bleeder screws

- **Used on automotive, construction, farm, mining and industrial equipment.**
- **Red color is easy to see.**
- **Fits all grease fittings & brake bleeder screws.**
- **Constructed of high strength plastic.**

CAP with Integral Retaining Ring

Keeps cap on fitting during service.

Part No.
10849 (100)

GREASE FITTING EASY-OUT TOOL

- **Removes 5/16" and 3/8" hex.**
- **Retaps 1/4-28 std. thread**
- **Removes 1/4-28 std. thread.**

Part No. 10880

B15

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GREASE FITTINGS

GREASE FITTINGS

For cars, trucks, machinery, industrial equipment.

FITTING TYPE 1

FITTING TYPE 2

FITTING TYPE 3

HYDRAULIC

- **Precision engineered to OEM specifications.**
- **Designed to give full-flow lubrication without restriction.**
- **Check valve equipped for extended performance and reliability.**

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10830	1	1/4-28 tapered	33/64	--
10975	1	1/4-28 tapered	11/16	--
10846	1	1/4-28 tapered	15/16	--
10831	1	1/4-28 tapered	1-1/8	--
10851	1	1/4-28 tapered	1-5/8	--
10832	2	1/4-28 tapered	13/16	45°
10833	2	1/4-28 tapered	29/32	45°
10834	2	1/4-28 tapered	3/4	90°
10976	1	1/4-28 UNF	1/2	--
10835	1	5/16-24 UNF	21/32	--
10837	1	3/8-24 UNF	21/32	--
10838	1	1/8 pipe	11/16	--
10977	1	1/8 pipe	1-1/4	--
10860	1	1/8 pipe	1-3/4	--

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10987	1	1/8 pipe	2-5/8	--
10839	2	1/8 pipe	29/32	30°
10840	2	1/8 pipe	29/32	45°
10841	2	1/8 pipe	27/32	65°
10842	2	1/8 pipe	27/32	90°
10844	1	1/4 pipe	11/16	--
10836	1	3/16 drive	33/64	--
10981	1	1/4 drive	39/64	--
10858	1	5/16 drive	9/16	--
10859	1	3/8 drive	19/32	--
10982	1	1/8 self tapping	5/8	--
10983	1	1/4-28 self tapping	17/32	--
10984	2	1/4-28 self tapping	7/8	45°
10985	2	1/4-28 self tapping	47/64	90°

B15

HYDRAULIC SELF-TAPPING

- **Tapered drive threads reshape material in a untapped hole providing a leak proof seal.**
- **Installed by spinning or driven straight into untapped hole.**
- **Dyed yellow for identification.**
- **Maximum pressure 10,000 PSI**

STAINLESS STEEL PART NUMBER	STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
---	**10982**	1	1/8 pipe	5/8	--
---	**10983**	1	1/4-28 tapered	17/32	--

STAINLESS STEEL PART NUMBER	STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
---	**10984**	2	1/4-28 tapered	7/8	45°
---	**10985**	2	1/4-28 tapered	47/64	90°

METRIC DIN 71412

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
532091	1	6mm	13mm	--
532092	2	6mm	21mm	45°
532093	2	6mm	17mm	90°
532094	1	8mm	17mm	--
532095	2	8mm	21mm	45°
532096	2	8mm	17mm	90°
532097	1	10mm	18mm	--
532098	2	10mm	21mm	45°
532099	2	10mm	17mm	90°

STANDARD BUTTON HEAD

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10847	3	1/8 pipe	3/4	--
10848	3	1/4 pipe	53/64	--

GIANT BUTTON HEAD

STEEL PART NUMBER	FITTING TYPE	A THREAD/STYLE	B	C
10856	3	1/4 pipe	1-1/4	--
10857	3	3/8 pipe	1-5/16	--

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GREASE FITTINGS

FRACTIONAL

10830 | 10975 | 10846 | 10831 | 10851 | 10832 | 10833 | 10834

10976 | 10835 | 10837 | 10838 | 10977 | 10860 | 10987 | 10839

10840 | 10841 | 10842 | 10844 | 10836 | 10981 | 10858 | 10859

SELF-TAPPING

10982 | 10983 | 10984 | 10985 | 10847 | 10848 | 10856 | 10857

METRIC

532091 | 532092 | 532093 | 532094 | 532095 | 532096 | 532097 | 532098 | 532099

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PIPE PLUGS - STEEL / BRASS

STEEL PLUGS

For use in oil sumps, compressors, pumps, small engines, transmissions and rears (no gaskets required).

*** Most popular automotive size.**

SIZE/INCHES TAPERED PIPE THREAD	HEX HEAD PART NUMBER	QTY	HEX SOCKET HEAD PART NUMBER	QTY	SQUARE SOCKET HEAD PART NUMBER	QTY
1/4	---	-	**323206**	12	---	-
3/8	**323202**	12	**323207**	12	**323270**	12
1/2	**323203**	12	**323208**	12	**323271***	12
3/4	---	-	**323209**	6	**323272**	6

DIN 906

SIZE//MM TAPERED PIPE THREAD	METRIC HEX SOCKET HEAD PART NUMBER	QTY
18mm x 1.50	**323501**	6
20mm x 1.50	**323502**	6
22mm x 1.50	**323503***	6

***Part No. 323503 fits:**
2000-Up Chrysler/Dodge
Diesel transfer case
NOTE: (2) plugs required per vehicle.

PIPE PLUGS (FRACTIONAL SIZES)

PIPE THREAD SIZE	PART NUMBER	QTY	I.D. NUMBER	MATERIAL	DESCRIPTION
1/2	**10813**	25	090-002	Steel	Square Head - Standard
1/2	**323203**	12	090-070	Steel	Hex Head
1/4	**323206**	12	090-026	Steel	Hex Countersunk
1/4	**323206**	12	090-067	Steel	Hex Countersunk (Replaces Square)
1/4	**323206**	12	090-071	Steel	Hex Countersunk (Replaces Square)
3/4	**323209**	6	090-072	Steel	Hex Countersunk
3/8	**323270**	12	090-019	Steel	Square Countersunk
3/8	**323270**	12	090-028	Steel	Square Countersunk
1/2	**323271**	12	090-022	Steel	Square Countersunk
3/8	**508217**	5	090-001	Brass	Square Head - Standard
1/8	**508215**	10	490-070	Brass	Square Head - Standard
1/4	**508216**	10	490-071	Brass	Square Head - Standard
3/8	**508217**	5	490-072	Brass	Square Head - Standard
1/2	**508218**	5	490-073	Brass	Square Head - Standard
1/8	**508261**	10	490-074	Brass	Hex Head
1/4	**508262**	10	490-075	Brass	Hex Head
3/8	**508263**	5	490-076	Brass	Hex Head
1/2	**508264**	5	490-077	Brass	Hex Head
1/8	**510350**	25	090-046	Brass	Hex Countersunk
1/8	**510350**	25	090-065	Brass	Hex Countersunk

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WEATHERHEAD® DANA

HYDRAULIC HOSE and FITTINGS

FITTINGS

MUST BE ORDERED IN STANDARD PACKAGES ONLY, NO EXCEPTIONS, OR ORDER WILL BE CANCELLED.
The package (PKG QTY) quantity appears next to the part number.

ALL PART NUMBERS APPEAR IN ALPHA-NUMERIC SEQUENCE

HOSE PACKAGING

- Minimum purchase of hose, 50 foot lengths.
- 250 foot reels will contain no more than three (3) lengths of hose with no lengths shorter than 25 feet. These reels may vary in total length from 225 feet to 300 feet.
- 50 foot boxes will contain no more than two (2) lengths of hose, and the total may vary from 45 to 60 feet.
- 80% of boxed hose will be one piece, with no length shorter than ten (10) feet.

***We sell the complete line of**
Weatherhead Brand Hydraulic Hose and Fittings.
Order using the *Weatherhead* stock numbers. We ship the same day!

FOR PRICING CALL TOLL FREE: 1-888-722-4767

FOR TECHNICAL INFORMATION CALL WEATHERHEAD DIRECT (8 am - 4:30 pm)
1-888-258-0222
ASK FOR PRODUCT PLANNING OR FAX 952-294-2020

PART NUMBER	PKG QTY
00904B-102	EA
00904B-104	10
00904B-604	10
00904B-A04	2
00904B-A05	2
00904B-B00104	1
00904B-B00B05	1
00904B-B04	2
00904B-B05	2
00904B-E05	2
00904B-J02	5
00904B-M02	2
00905B-102	2
00905B-104	2
00905B-605	2
00905B-A05	1
00905B-B05	2
00906B-104	1
00906B-106	10
00906B-406	10
00906B-606	2
00906B-A06	1
00906B-B00104	1
00906B-B00106	1
00906B-B00406	1
00906B-B06	2
00906B-C00	1
00906M-776	2
00906M-Y06	2
00908B-108	5
00908B-608	5
00908B-C00	1
0102X4	10
0102X5	1
0102X6	10
0102X8	EA
0112-23045	EA
0112-23047	EA
0112-23170	EA
0112-23171	1
03908K-608	1
03908K-668	1
03912K-112	1
03912K-612	1
03916K-116	1
03916K-616	1
03916K-676	1
03920K-120	1
03920K-620	1
3.00E-102	1
3.00E-104	1
03E-354	1
03E-604	1
041-00906-12000	1
041-04803-00000	1
041-05703A00000	1
041-05704-02025	1
041-05704-03100	1
041-05706-00800	1
041-05706-01417	1
041-05706-02756	1
041-05706-03937	1
041-05706-04035	1
041-05804-00450	1
041-05804-02025	1
041-05805-30000	1
041-32308-00000	1
041-32308-60000	1
041-75708-30000	1
041-99107-01	1
041-99107-03	1
041-99107-03A	1
041-99108A	1
041-99108P	1
04E-04L	1
4.00E-102	2
04E-102-CT	EA
04E-102Z	2
4.00E-104	2
04E-104-CT	400
4.00E-106	10
04E-354	1
04E-504	2
04E-505	2
04E-506	2
04E-604	10
04E-604-CT	400

PART NUMBER	PKG QTY
04E-605	10
04E-606	5
04E-606-CT	350
04E-644	2
04E-645	1
04E-664	1
04E-664-CT	450
04E-665	1
04E-684	1
04E-685	2
04E-74P	1
04E-A24	1
04E-A26	1
04E-A64	1
04E-B03	1
04E-B04	2
04E-B05	2
04E-B43	1
04E-B44	1
04E-B63	1
04E-B64	1
04E-J04	5
04E-J04-CT	EA
04E-J04Z	1
04E-L64	1
04E-L66	1
04E-S64	1
04E-S66	1
04M-054	2
04M-104	5
04M-604	5
04M-6PW	2
04M-J04	2
04S-104	1
04S-604	1
04U-04L	1
04U-04S	1
04U-054	10
04U-054-CT	180
04U-06C	1
04U-08A	1
04U-08C	2
04U-08D	1
04U-08F	1
04U-102	5
04U-102-CT	400
04U-104	10
04U-104-CT	400
04U-106	5
04U-106-CT	300
04U-108	10
04U-10A	1
04U-10C	2
04U-10D	1
04U-10F	1
04U-14K	5
04U-154	2
04U-202	10
04U-204	10
04U-204-CT	300
04U-254	5
04U-354	5
04U-354-CT	250
04U-356	1
04U-38T	1
04U-40T	1
04U-44P	1
04U-504	5
04U-504-CT	200
04U-505	5
04U-505-CT	350
04U-506	5
04U-506-CT	1
04U-554	1
04U-58C	1
04U-58D	1
04U-604	10
04U-604-CT	350
04U-605	5
04U-605-CT	350
04U-606	5
04U-606-CT	300
04U-60C	1
04U-60D	1
04U-62C	1
04U-644	1
04U-664	5

PART NUMBER	PKG QTY
04U-664-CT	300
04U-665	10
04U-665-CT	250
04U-666	10
04U-666-CT	250
04U-684	10
04U-684-CT	300
04U-685	1
04U-74P	2
04U-754	5
04U-754-CT	250
04U-755	5
04U-755-CT	250
04U-A24	5
04U-A26	5
04U-A64	2
04U-A66	1
04U-B03	2
04U-B04	5
04U-B04-CT	200
04U-B05	5
04U-B43	1
04U-B44	5
04U-B45	1
04U-B63	1
04U-B64	5
04U-B65	1
04U-C34	1
04U-E64	5
04U-J04	5
04U-J04-CT	150
04U-J34	5
04U-J36	2
04U-J38	1
04U-L64	5
04U-L66	5
04U-M04	5
04U-M04-CT	100
04U-P04	5
04U-P04-CT	400
04U-P05	5
04U-P06	5
04U-P06-CT	350
04U-P54	2
04U-R04	1
04U-R66	1
04U-S64	5
04U-S64-CT	250
04U-S66	5
04U-S68	2
04U-T04	2
04Z-04L	1
04Z-04S	1
04Z-054	1
04Z-06A	1
04Z-06C	1
04Z-08A	1
04Z-08C	1
04Z-08D	1
04Z-08F	1
04Z-102	1
04Z-104	1
04Z-106	1
04Z-108	1
04Z-10A	1
04Z-10C	1
04Z-10D	1
04Z-10E	1
04Z-10F	1
04Z-14K	1
04Z-154	1
04Z-202	1
04Z-204	1
04Z-254	1
04Z-354	1
04Z-356	1
04Z-38T	1
04Z-404	1
04Z-40T	1
04Z-44P	1
04Z-504	1
04Z-505	1
04Z-506	1
04Z-58C	1
04Z-58D	EA
04Z-58E	1
04Z-603	1

PART NUMBER	PKG QTY
04Z-604	1
04Z-605	1
04Z-606	1
04Z-60C	1
04Z-60D	1
04Z-60E	1
04Z-62C	1
04Z-644	1
04Z-645	1
04Z-664	1
04Z-665	1
04Z-666	1
04Z-684	1
04Z-685	1
04Z-686	1
04Z-6PW	1
04Z-74P	1
04Z-754	1
04Z-755	1
04Z-A24	1
04Z-A26	1
04Z-A64	1
04Z-A66	1
04Z-A68	1
04Z-B04	1
04Z-B05	1
04Z-B44	1
04Z-B45	1
04Z-B64	1
04Z-B65	1
04Z-BC06	1
04Z-BC46	1
04Z-BF06	1
04Z-BF26	1
04Z-BF46	1
04Z-BF66	1
04Z-E64	1
04Z-J04	1
04Z-J34	1
04Z-J36	1
04Z-J38	1
04Z-L64	1
04Z-L66	1
04Z-M04	1
04Z-P04	1
04Z-P05	1
04Z-P06	1
04Z-P54	1
04Z-R04	1
04Z-R66	1
04Z-S64	1
04Z-S66	1
04Z-S68	1
04Z-T04	1
05703B-102	5
05704B-102	5
05704B-104	5
05704B-B64	5
05704B-B65	5
05704B-C02	10
05705B-102	5
05705B-104	5
05705B-1560	5
05705B-1561	5
05705B-1598	5
05705B-B65	5
05705B-C02	5
05705B-C04	5
05706B-102	5
05706B-104	5
05706B-106	5
05706B-1412	25
05706B-1413	5
05706B-1414	5
05706B-1415	25
05706B-1416	25
05706B-1417	25
05706B-1568	5
05706B-1569	5
05706B-1570	5
05706B-305	5
05706B-B65	5
05706B-B66	10
05706B-C02	5
05706B-C04	EA
05706B-C04Z	5
05706B-C06	EA

PART NUMBER	PKG QTY
05706B-C06Z	1
05708P-408	1
05708P-C00	1
05710B-106	5
05710B-108	EA
05710B-108Z	5
05710B-C06	5
05710P-410	1
05710P-C00	1
05712B-108	10
5.00E-104	2
5.00E-106	2
05E-406	2
05E-505	1
05E-605	2
05E-606	5
05E-646	1
05E-665	1
05E-666	1
05E-686	1
05E-756	1
05E-A26	1
05E-A66	1
05E-B05	1
05E-B06	1
05E-J04	1
05E-L66	1
05E-S66	2
06-04835-01	1
06-04835-02	1
06-04835-03	1
06-04835-05	1
06-04837-06	1
06-08572-00	1
06904D-102	1
06904D-104	1
06904D-604	1
06904D-B00B04	1
06904D-B04	1
6.90E-99	1
06904E-102-CT	600
6.90E-101	1
06904E-504	1
06904E-604	5
06904E-604-CT	500
06904E-664	1
06904E-684	1
06904E-B04	1
06904E-E04	1
06904E-E44	1
06904T-404	1
06905D-104	1
06905D-605	1
06905D-B05	1
6.91E-101	1
06905E-505	1
06905E-605	1
06905E-605T	1
06905E-665	1
06905E-685	1
06905E-B05	1
06905E-E05	1
06905E-E45	1
06906D-104	1
06906D-406	1
06906D-606	1
06906D-B00B06	1
06906D-B06	1
06906D-C00	1
06906E-08C	1
6.91E-101	1
6.91E-103	1
06906E-18K	1
6.91E-302	1
6.91E-303	1
06906E-306T	1
06906E-406	5
06906E-406-CT	300
06906E-406T	1
06906E-466	1
06906E-466T	1
06906E-486	1
06906E-486T	1
06906E-506	1
06906E-605	1
06906E-605T	1
06906E-606	5

PART NUMBER	PKG QTY
06906E-606-CT	300
06906E-608	1
06906E-666	1
06906E-686	1
06906E-B06	1
06906E-E04	1
06906E-E05	1
06906E-E06	1
06906E-E46	1
06906T-406	1
06908D-106	1
06908D-108	1
06908D-608	1
6.91E-103	1
6.91E-105	1
06908E-508	1
06908E-608	5
06908E-608-CT	200
06908E-608T	1
06908E-648	1
06908E-668	5
06908E-688	1
06908E-B08	1
06908T-408	10
06910D-108	1
06910D-610	1
6.91E-105	1
6.91E-109	1
06910E-22K	1
06910E-510	1
06910E-608	1
06910E-610	5
06910E-610-CT	150
06910E-668	1
06910E-670	1
06910E-690	1
06910T-410	2
06912D-112	1
06912D-412	1
06912D-612	1
6.91E-109	1
06912E-18D	1
06912E-24K	1
06912E-30K	1
06912E-412	1
06912E-472	1
06912E-492	1
06912E-512	1
06912E-612	5
06912E-612-CT	100
06912E-672	1
06912E-68D	1
06912E-692	1
06912E-A30	1
06916D-112	1
06916D-116	2
06916D-616	1
06916D-X26	1
6.92E-109	1
6.92E-113	1
06916E-33K	1
06916E-516	1
06916E-616	2
06916E-616-CT	60
06916E-656	1
06916E-676	2
06916E-696	2
06916E-X26	1
06920D-120	1
06920D-620	1
6.92E-117	1
06920E-366	1
06920E-520	1
06920E-620	1
06920E-620-CT	40
06920E-657	1
06920E-677	2
06920E-697	1
06924D-124	1
06924D-624	1
6.92E-121	1
06924E-42K	1
06924E-524	1
06924E-624	1
06924E-678	1
06932D-132	1
06932D-632	1

PART NUMBER	PKG QTY
6.93E-129	1
06932E-632	1
06940T-140	1
06940T-640	1
06948T-148	1
06948T-648	1
06E-06L	2
6.00E-104	2
6.00E-106	2
06E-106-CT	300
6.00E-108	2
06E-356	1
06E-358	1
06E-406	2
06E-406-CT	300
06E-466	1
06E-466-CT	200
06E-486	1
06E-506	2
06E-508	2
06E-606	10
06E-606-CT	350
06E-608	5
06E-646	1
06E-648	1
06E-666	5
06E-668	1
06E-686	1
06E-688	1
06E-755	1
06E-756	2
06E-76P	1
06E-A26	1
06E-A28	1
06E-A66	1
06E-A68	1
06E-B05	2
06E-B06	2
06E-B08	1
06E-B45	2
06E-B46	2
06E-B65	2
06E-B66	2
06E-J06	2
06E-L66	1
06E-S66	5
06E-S68	1
06M-056	2
06M-106	5
06M-606	5
06M-608	5
06M-6PW	2
06M-J06	5
06S-106	1
06S-606	1
06U-056	5
06U-056-CT	150
06U-06L	5
06U-06P	1
06U-06S	1
06U-08P	1
06U-104	10
06U-104-CT	200
06U-106	10
06U-106-CT	200
06U-108	5
06U-108-CT	150
06U-10A	1
06U-10C	2
06U-10D	1
06U-10F	1
06U-12A	1
06U-12C	2
06U-12D	1
06U-12F	1
06U-14F	1
06U-156	1
06U-18K	5
06U-204	5
06U-206	5
06U-206-CT	150
06U-256	5
06U-306	2
06U-356	5
06U-356-CT	150
06U-358	1
06U-406	5

PART NUMBER	PKG QTY
06U-406-CT	200
06U-40T	1
06U-42T	1
06U-446	5
06U-44T	1
06U-46P	1
06U-486	5
06U-506	5
06U-506-CT	250
06U-508	5
06U-508-CT	200
06U-510	5
06U-556	1
06U-604	5
06U-604-CT	200
06U-606	10
06U-606-CT	200
06U-608	5
06U-608-CT	150
06U-60C	2
06U-60D	1
06U-610	5
06U-612	5
06U-62C	2
06U-62D	1
06U-62E	1
06U-644	1
06U-646	5
06U-646-CT	150
06U-648	1
06U-64C	1
06U-64E	1
06U-664	5
06U-666	5
06U-666-CT	150
06U-668	5
06U-668-CT	100
06U-684	2
06U-686	5
06U-686-CT	200
06U-688	5
06U-688-CT	120
06U-754	2
06U-755	5
06U-755-CT	200
06U-756	5
06U-756-CT	200
06U-76P	2
06U-78P	1
06U-956	1
06U-976	1
06U-A24	1
06U-A26	5
06U-A26-CT	150
06U-A28	5
06U-A66	5
06U-A68	1
06U-B04	1
06U-B05	5
06U-B06	5
06U-B06-CT	200
06U-B07	1
06U-B44	1
06U-B45	2
06U-B46	5
06U-B47	1
06U-B64	1
06U-B65	1
06U-B66	5
06U-B66-CT	150
06U-B67	1
06U-C36	1
06U-E66	5
06U-E68	2
06U-E70	1
06U-J04	10
06U-J04-CT	150
06U-J06	5
06U-J06-CT	120
06U-J08	5
06U-J08-CT	100
06U-J36	5
06U-J38	2
06U-L06	1
06U-L66	5
06U-L68	5
06U-M04	1

PART NUMBER	PKG QTY
06U-M06	5
06U-M06-CT	100
06U-M08	1
06U-P06	5
06U-P06-CT	250
06U-P08	5
06U-P08-CT	150
06U-P10	2
06U-P56	1
06U-P58	1
06U-R06	5
06U-R08	5
06U-R66	5
06U-R66-CT	100
06U-R68	5
06U-R68-CT	100
06U-R70	2
06U-S64	2
06U-S66	2
06U-S66-CT	150
06U-S68	5
06U-S68-CT	100
06U-S70	1
06U-T06	2
06U-X60	1
06U-Y76	10
06Z-056	1
06Z-06L	1
06Z-06PA	1
06Z-06S	1
06Z-08PA	1
06Z-08S	1
06Z-104	1
06Z-106	1
06Z-108	1
06Z-10A	1
06Z-10C	1
06Z-10D	1
06Z-10F	1
06Z-12A	1
06Z-12C	1
06Z-12D	1
06Z-12E	1
06Z-12F	1
06Z-14E	1
06Z-14F	1
06Z-156	1
06Z-18K	1
06Z-204	1
06Z-206	1
06Z-256	1
06Z-306	1
06Z-356	1
06Z-358	1
06Z-404	1
06Z-406	1
06Z-408	1
06Z-40T	1
06Z-42T	1
06Z-446	1
06Z-44T	1
06Z-46P	1
06Z-486	1
06Z-506	1
06Z-508	1
06Z-510	1
06Z-604	1
06Z-605	1
06Z-606	1
06Z-608	1
06Z-60C	1
06Z-60D	1
06Z-610	1
06Z-612	1
06Z-62C	1
06Z-62D	1
06Z-62E	1
06Z-644	1
06Z-646	1
06Z-648	1
06Z-64C	1
06Z-64E	1
06Z-664	1
06Z-666	1
06Z-668	1
06Z-684	1
06Z-686	1

PART NUMBER	PKG QTY
06Z-688	1
06Z-6PW	1
06Z-754	1
06Z-755	1
06Z-756	1
06Z-76P	1
06Z-78P	1
06Z-956	1
06Z-976	1
06Z-A24	1
06Z-A26	1
06Z-A28	1
06Z-A66	1
06Z-A68	1
06Z-B04	1
06Z-B05	1
06Z-B06	1
06Z-B07	1
06Z-B45	1
06Z-B46	1
06Z-B47	1
06Z-B64	1
06Z-B65	1
06Z-B66	1
06Z-B67	1
06Z-BC06	1
06Z-BC08	1
06Z-BC46	1
06Z-BC66	1
06Z-BC68	1
06Z-BC86	1
06Z-BF06	1
06Z-BF08	1
06Z-BF26	1
06Z-BF28	1
06Z-BF46	1
06Z-BF48	1
06Z-BF66	1
06Z-BF68	1
06Z-E66	1
06Z-E68	1
06Z-J04	1
06Z-J06	1
06Z-J08	1
06Z-J36	1
06Z-J38	1
06Z-L64	1
06Z-L66	1
06Z-L68	1
06Z-M04	1
06Z-M06	1
06Z-P06	1
06Z-P08	1
06Z-P10	1
06Z-P56	1
06Z-P58	1
06Z-R06	1
06Z-R08	1
06Z-R66	1
06Z-R68	1
06Z-R70	1
06Z-S64	1
06Z-S66	1
06Z-S68	1
06Z-T06	1
08E-08L	1
8.00E-106	2
8.00E-108	2
08E-108-CT	170
08E-358	1
08E-360	1
08E-508	2
08E-510	1
08E-608	5
08E-608-CT	200
08E-610	5
08E-610-CT	150
08E-648	1
08E-650	1
08E-668	1
08E-670	1
08E-688	1
08E-690	1
08E-758	1
08E-78P	1
08E-A28	1
08E-A68	1

PART NUMBER	PKG QTY
08E-B08	2
08E-B48	1
08E-B68	1
08E-J08	5
08E-L68	1
08E-S68	1
08E-S70	1
08E-T58	1
08E-T60	2
08E-Y58	1
08E-Y60	2
08E-Z68	1
08M-058	2
08M-108	5
08M-608	5
08M-J08	5
08S-108	1
08S-608	1
08S-610	1
08U-058	5
08U-058-CT	120
08U-08L	2
08U-08P	1
08U-08S	1
08U-104	10
08U-106	5
08U-106-CT	150
08U-108	10
08U-108-CT	150
08U-112	5
08U-112-CT	120
08U-12P	1
08U-158	1
08U-15A	1
08U-15C	2
08U-15D	1
08U-16F	1
08U-208	2
08U-208-CT	100
08U-22K	2
08U-258	5
08U-358	5
08U-358-CT	120
08U-360	1
08U-45T	1
08U-46T	1
08U-48P	1
08U-508	5
08U-508-CT	150
08U-510	5
08U-510-CT	120
08U-512	5
08U-512-CT	100
08U-558	2
08U-560	1
08U-606	5
08U-608	10
08U-608-CT	150
08U-610	5
08U-610-CT	120
08U-612	5
08U-612-CT	80
08U-616	1
08U-648	5
08U-648-CT	100
08U-650	2
08U-65D	1
08U-668	5
08U-668-CT	100
08U-66C	2
08U-66E	1
08U-670	5
08U-670-CT	70
08U-688	5
08U-688-CT	100
08U-690	5
08U-758	5
08U-758-CT	125
08U-760	5
08U-760-CT	1
08U-78P	2
08U-80P	1
08U-A26	2
08U-A28	5
08U-A28-CT	100
08U-A30	2
08U-A32	2

PART NUMBER	PKG QTY
08U-A68	5
08U-A70	1
08U-B08	5
08U-B10	1
08U-B48	1
08U-B68	1
08U-E68	2
08U-E70	2
08U-E72	2
08U-G08	1
08U-G41	1
08U-G71	1
08U-J06	5
08U-J08	5
08U-J08-CT	100
08U-J36	1
08U-J38	5
08U-J42	1
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08U-L68	5
08U-L68-CT	100
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08U-P08	5
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08U-P10	5
08U-P10-CT	120
08U-P12	5
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08U-R10	5
08U-R10-CT	80
08U-R12	2
08U-R68	5
08U-R68-CT	80
08U-R70	5
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10004B-104	10
10004B-104-CT	EA
10004B-104Z	5
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PART NUMBER	PKG QTY
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10004B-304	5
10004B-304-CT	1300
10004B-305	5
10004B-305-CT	800
10004B-404	25
10004B-405	10
10004B-604	25
10004B-604-CT	700
10004B-605	10
10004B-A03	5
10004B-A03-CT	1500
10004B-A04	5
10004B-A04-CT	900
10004B-A05	5
10004B-A05-CT	1200
10004B-B03	5
10004B-B03-CT	1000
10004B-B04	10
10004B-B04-CT	500
10004B-B05	10
10004B-B05-CT	800
10004B-X03	5
10004B-X03-CT	1300
10004B-X04	5
10004B-X04-CT	1200
10004B-X05	5
10004B-X05-CT	1250
10004B-Y04	10
10004B-Y04-CT	700
10005B-102	10
10005B-102-CT	800
10005B-104	10
10005B-104-CT	600
10005B-305	1
10005B-305-CT	800
10005B-405	5
10005B-605	1
10005B-605-CT	500
10005B-A05	1
10005B-A05-CT	700
10005B-B04	1
10005B-B04-CT	900
10005B-B05	1
10005B-B05-CT	800
10005B-B06	1
10005B-B06-CT	400
10005B-C02	1
10005B-C02-CT	500
10005B-C04	1
10005B-C04-CT	325
10005B-X05	5
10005B-X05-CT	500
10005B-Y05	1
10005B-Y05-CT	500
10006B-102	5
10006B-102-CT	575
10006B-104	10
10006B-104-CT	500
10006B-106	10
10006B-106-CT	425
10006B-256	5
10006B-256-CT	150
10006B-306	5
10006B-306-CT	650
10006B-405	5
10006B-406	10
10006B-406-CT	400
10006B-605	5
10006B-606	10
10006B-606-CT	300
10006B-A05	5
10006B-A05-CT	800
10006B-A06	5
10006B-A06-CT	700
10006B-B05	5
10006B-B05-CT	425
10006B-B06	10
10006B-B06-CT	550
10006B-C02	5
10006B-C02-CT	450
10006B-C04	5
10006B-C04-CT	350
10006B-X06	5
10006B-X06-CT	700
10006B-Y06	10
10006B-Y06-CT	350

PART NUMBER	PKG QTY
10008B-106	10
10008B-106-CT	300
10008B-108	10
10008B-108-CT	200
10008B-258	5
10008B-258-CT	75
10008B-408	5
10008B-608	10
10008B-608-CT	225
10008B-A08	5
10008B-A08-CT	250
10008B-B08	5
10008B-B08-CT	175
10008B-Y08	5
10008B-Y08-CT	200
10010B-108	5
10010B-108-CT	25
10010B-410	2
10010B-610	5
10010B-610-CT	200
10012B-112	5
10012B-112-CT	100
10012B-412	2
10012B-412-CT	90
10012B-610	2
10012B-612	5
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10416N-616	1
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105-22225-26100	1
105-22231-26100	1
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PART NUMBER	PKG QTY
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10503B-104-CT	850
10503B-202	5
10503B-202-CT	1325
10503B102	1
10503B104	5
10503B202	5
10504B-102	1
10504B-102-CT	EA
10504B-102Z	EA
10504B-104	850
10504B-104-CT	EA

PART NUMBER	PKG QTY
10504B-104Z	1
10504B-106	1
10504B-106-CT	EA
10504B-106Z	1
10504B-202	1
10504B-202-CT	900
10504B-204	5
10504B-204-CT	900
10504B102	1
10504B104	1
10504B106	1
10504B202	1
10504B204	5
10505B-102	5
10505B-102-CT	1500
10505B-104	5
10505B-104-CT	1000
10505B-202	5
10505B-202-CT	1200
10505B-204	1
10505B-204-CT	575
10505B102	5
10505B104	5
10505B202	5
10505B204	1
10506B-102	5
10506B-102-CT	EA
10506B-102Z	1
10506B-104	1
10506B-104-CT	EA
10506B-104Z	1
10506B-106	1
10506B-106-CT	EA
10506B-106Z	5
10506B-108	5
10506B-108-CT	EA
10506B-108Z	1
10506B-202	1
10506B-202-CT	750
10506B-204	1
10506B-204-CT	400
10506B-206	5
10506B-206-CT	552
10506B102	5
10506B104	1
10506B106	1
10506B108	5
10506B202	1
10506B204	1
10506B206	5
10508B-104	5
10508B-104-CT	EA
10508B-104Z	1
10508B-106	1
10508B-106-CT	EA
10508B-106Z	1
10508B-108	1
10508B-108-CT	EA
10508B-108Z	5
10508B-112	5
10508B-112-CT	300
10508B-204	1
10508B-204-CT	450
10508B-206	1
10508B-206-CT	350
10508B-208	1
10508B-208-CT	200
10508B104	5
10508B106	1
10508B108	1
10508B112	5
10508B204	1
10508B206	1
10508B208	1
10510B-106	1
10510B-106-CT	EA
10510B-106Z	1
10510B-108	1
10510B-108-CT	EA
10510B-108Z	5
10510B-112	5
10510B-112-CT	275
10510B106	1
10510B108	1
10510B112	5
10512B-108	5
10512B-108-CT	EA

PART NUMBER	PKG QTY
10512B-108Z	5
10512B-112	5
10512B-112-CT	200
10512B108	5
10512B112	5
105X10	1
105X12	1
105X14	1
105X16	1
105X2	10
105X3	20
105X4	20
105X5	20
105X6	10
105X6X7	5
105X7	5
105X8	10
106-12004	1
1062X4	25
1062X4-CT	6700
1062X4L	5
1062X4X3	5
1062X6	5
1062X6X4	5
1062X6X4-CT	3200
1062X8	5
1062X8X4	50
1062X8X6	5
106370	1
106470	1
1064X4	10
1064X4-CT	2100
1064X6	20
1064X6-CT	1300
1064X6X6X4	20
1064X6X6X4-CT	1300
1064X6X8X6	5
1064X8	5
1064X8X8X4	5
1064X8X8X6	5
1065X4	10
1065X6	5
1065X8	5
1066X4	20
1066X4X1	50
1066X4X4	5
1066X6	25
1066X8	5
1067X4X4	5
1067X6X6	5
1068X2.5X2	5
1068X2A	10
1068X4	20
1068X4-CT	1500
1068X4X1	5
1068X4X4	EA
1068X4Z	5
1068X6	5
1068X6X2	5
1068X6X8	10
1068X8	5
1069X4	20
1069X4-CT	1560
1069X4X1	5
1069X4X4	EA
1069X4X4Z	EA
1069X4Z	10
1069X6	10
1069X6X2	EA
1069X6X2Z	5
1069X8	5
107-00364-28100	1
107-00366-28100	1
107-03299-00100	1
107-04007-28100	1
107-04012-28100	1
107-04037-28100	1
107-04054-28100	1
107-04056-28100	1
107-04069-28100	1
107-04084-28100	1
107-04089-28100	1
107-04246-28100	1
107-04248-28100	1
107-04268-28100	1
107-04288-28100	1
107-10003	1

PART NUMBER	PKG QTY
107-10505-00100	1
107-10506-00100	1
107-10508-00100	1
107-10510-00100	1
107-12545-28	1
107-16502-00100	1
107-16506-00100	1
107-16510-00100	1
107-16516-00100	1
107-20504-28100	1
107-20505-28100	1
107-20508-28100	1
107-20512-28100	1
107-20514-28100	1
107-23704-78	1
107-23706-77	1
107-23708-77	1
107-23710-06	1
107-23726-28100	1
107-23763	1
107-23805-77	1
107-23920	1
107-23920-06	1
107-23957-77	1
107-23970-78	1
107-30506-28100	1
107-30510-28100	1
107-31504-28100	1
107-31505-28100	1
107-31508-28100	1
107-31516-28100	1
107-35508-28100	1
107-51506	1
107-51506-28100	1
107-70508-28100	1
107-71504	1
107-71604	1
1070X4	5
1070X4X1	5
1070X4X4	10
1070X6	10
1070X6X2	5
1070X8	5
1071X4	5
1071X4X1	10
1071X6	10
1071X6X2	10
1071X8	2
1072X4	5
1072X4X1	10
1072X6	5
1072X6X2	5
1072X8	10
1073X4	5
1073X6	5
1073X8	25
1074	2
1074X4	10
1074X6	10
1074X8	10
1075X4	5
1077X4	10
1077X4X4	25
1078X3X4	5
1078X4X4	10
1079X4X4	5
108	5
108-CT	EA
108Z	1
10M-108	5
10M-112	5
10M-50P	2
10M-610	5
10M-612	2
10M-670	2
10M-672	2
10M-68D	2
10M-692	2
10M-70E	2
10M-80P	2
10M-A30	2
10M-A32	2
10M-A70	2
10M-K69	2
10M-L22	2
10M-L70	2
10M-L72	2

PART NUMBER	PKG QTY
10M-P10	2
10M-P12	2
10M-S70	2
10M-S72	2
10U-106	1
10U-108	5
10U-108-CT	100
10U-112	5
10U-112-CT	100
10U-12L	1
10U-18A	1
10U-18C	1
10U-18D	1
10U-20F	1
10U-24K	2
10U-360	1
10U-48T	1
10U-508	1
10U-50P	1
10U-50T	1
10U-510	5
10U-510-CT	100
10U-512	5
10U-512-CT	80
10U-608	5
10U-608-CT	100
10U-610	5
10U-610-CT	100
10U-612	5
10U-612-CT	70
10U-650	2
10U-670	5
10U-670-CT	60
10U-672	2
10U-68D	1
10U-690	1
10U-692	1
10U-70C	1
10U-70E	1
10U-80P	1
10U-A30	2
10U-A32	1
10U-A70	1
10U-E70	2
10U-E72	1
10U-G09	1
10U-G69	1
10U-J40	1
10U-K09	2
10U-K69	2
10U-L22	1
10U-L70	2
10U-L72	1
10U-P08	1
10U-P10	2
10U-P12	2
10U-P60	1
10U-R08	1
10U-S70	5
10U-S70-CT	70
10U-S72	2
10U-T10	1
10X252	1
10Z-106	1
10Z-108	1
10Z-112	1
10Z-12L	1
10Z-18A	1
10Z-18C	1
10Z-18D	1
10Z-20E	1
10Z-20F	1
10Z-24K	1
10Z-360	1
10Z-48T	1
10Z-508	1
10Z-50P	1
10Z-50T	1
10Z-510	1
10Z-512	1
10Z-608	1
10Z-610	1
10Z-612	1
10Z-650	1
10Z-670	1
10Z-672	1
10Z-68D	1

PART NUMBER	PKG QTY
10Z-690	1
10Z-692	1
10Z-70C	1
10Z-70E	1
10Z-80P	1
10Z-A30	1
10Z-A32	1
10Z-A70	1
10Z-BC10	1
10Z-BC50	1
10Z-BC70	1
10Z-BF10	1
10Z-BF30	1
10Z-BF50	1
10Z-BF70	1
10Z-E70	1
10Z-E72	1
10Z-G09	1
10Z-G69	1
10Z-G72	1
10Z-G99	1
10Z-J40	1
10Z-L22	1
10Z-L70	1
10Z-L72	1
10Z-P08	1
10Z-P10	1
10Z-P12	1
10Z-P60	1
10Z-R08	1
10Z-S68	1
10Z-S70	1
10Z-S72	1
10Z-T10	1
110	5
11009	1
1100X2PPX2	5
1100X4PPX4	5
1100X5MMXA	5
1100X6PPX6	5
11041	1
1105X10M	2
1105X12M	2
1105X2	5
1105X2.5	5
1105X4	5
1105X4M	2
1105X5	5
1105X5M	2
1105X6	5
1105X6M	2
1105X8	2
1105X8M	2
11076	1
11078	1
11079	1
1107X10M	1
1107X2	5
1107X2.5	5
1107X4	5
1107X4M	2
1107X6M	2
1107X8M	2
11080	1
11082	1
11089	1
1108PX2.5S	2
1108PX2S	2
1108PX4S	10
1108X2	5
1108X2.5	5
1108X2A	5
1108X4	5
1108X4MX2PT	1
1108X4MX5MM	1
1108X6MX2PT	1
1108X6MX5MM	1
1108X8MX2PT	1
1108X8MX4PT	1
1108pX4s	10
11093	1
1109X10MX12M	1
1109X2.5X4	5
1109X2X4	5
1109X4MX5M	2
1109X4MX6M	2
1109X4MX8M	2

PART NUMBER	PKG QTY
1109X4X6	5
1109X4X8	5
1109X5MX6M	2
1109X5MX8M	2
1109X6MX10M	1
1109X6MX12M	2
1109X6MX8M	2
1109X6X8	2
1109X8MX10M	1
1109X8MX12M	1
111	5
11100	1
1110X10	5
1110X12	5
1110X2	5
1110X3	5
1110X4	5
1110X5	5
1110X6	20
1110X7	5
1110X8	5
112	5
112-01091	1
112-01098	1
112-06136	1
112-10321	1
112-10795	1
112-10856	1
112-10860	1
112-10903	1
112-10919	1
11205	1
11208	1
11212	1
11216	1
11217	1
11219	1
11223	1
11224	1
1129X10MRP	2
1129X12MRP	2
1129X2	5
1129X2.5	5
1129X4	5
1129X4MRP	2
1129X5	5
1129X5MRP	1
1129X6	5
1129X6MRP	2
1129X8	5
1129X8MRP	2
113	5
11318	1
11358	1
114	5
11465	1
11466	1
11474	1
11486	1
115	5
1150X2X2PP	5
1150X4X4PP	5
1150X6X6PP	5
1150X8X8PP	5
116	5
116-10016	1
116-15316	1
116-20004-02	1
116-20004-47	1
116-20006-02	1
116-20008-47	1
116-20010-02	1
116-20012-48	1
116-20041	1
116-23206-02	1
116-23206-47	1
116-23404-02	1
116-23404-47	1
116-23408-47	1
116-23604	1
116-23604-02	1
116-23606-02	1
116-23610-02	1
116-23610-47	1
116-23806-02	1
116-23806-47	1
116-23808-02	1

PART NUMBER	PKG QTY
116-23808-47	1
116-24208	1
116-24208-05	1
116-24210	1
116-25004	1
116-25004-02	1
116-25006-02	1
116-28404	1
116-28812-03	1
116-30004-02	1
116-30006-02	1
116-30010-02	1
116-30012-02	1
116-30038-03	1
116-31506	1
116-35004	1
116-35004-47	1
116-35006-02	1
116-35006-47	1
116-35010-47	1
116-38404	1
116-38408	1
116-38408-47	1
116-38606-47	1
116-38808	1
116-38808-47	1
116-40004-02	1
116-40004-47	1
116-40006-02	1
116-40006-47	1
116-40008-47	1
116-40010-02	1
116-40010-47	1
116-40052-03	1
116-43206-02	1
116-43206-47	1
116-43404-02	1
116-43404-47	1
116-43604	1
116-43604-47	1
116-43606-02	1
116-43606-39	1
116-43610-47	1
116-43612	1
116-43612-03	1
116-43612-87	1
116-43612-90	1
116-43806-47	1
116-43808-02	1
116-43808-47	1
116-43812	1
116-44210	1
116-44210-47	1
116-45004	1
116-60004	1
116-60004-47	1
116-60008-47	1
116-63408	1
116-63408-47	1
116-63464	1
116-63464-47	1
116-63606-47	1
116-63686	1
116-65006	1
116-68410	1
116-70004	1
116-70064	1
116-70069	1
116-75004	1
116-75004-47	1
116-78464	1
116-78606-47	1
1161X10M	2
1161X12M	5
1161X2	5
1161X2.5	5
1161X4	5
1161X4M	2
1161X5	5
1161X5M	2
1161X6	5
1161X6M	2
1161X8	2
1161X8M	2
1162X10M	2
1162X12M	2
1162X2	5

PART NUMBER	PKG QTY
1162X2.5	5
1162X4	5
1162X4M	1
1162X5	5
1162X5M	1
1162X6	5
1162X6M	1
1162X8	2
1162X8M	1
1164X10M	2
1164X12M	2
1164X2	5
1164X2.5	5
1164X4	5
1164X4M	2
1164X5	5
1164X5M	1
1164X6	5
1164X6M	2
1164X8	2
1164X8M	2
1165X10M	2
1165X12M	1
1165X2	5
1165X2.5	5
1165X4	5
1165X4M	2
1165X5	5
1165X5M	1
1165X6	5
1165X6M	2
1165X8	2
1165X8M	2
1166X10MX4PP	2
1166X2	5
1166X2.5	5
1166X2.5X4	5
1166X2X4	5
1166X4	5
1166X4MX2PP	2
1166X4MX5MM	1
1166X4X4	5
1166X5MX2PP	5
1166X5MX5MM	5
1166X6	5
1166X6MX2PP	2
1166X6MX4PP	2
1166X8MX2PP	1
1166X8MX4PP	2
1168PX2	50
1168PX2.5	5
1168PX2.5X4	5
1168PX2X4	5
1168PX4	5
1168PX4X4	5
1168PX4X6	5
1168PX5	2
1168PX5X4	2
1168PX5X6	2
1168PX6	2
1168PX6X2	2
1168PX6X6	2
1168PX6X8	2
1168PX8	2
1168PX8X4	2
1168PX8X8	2
1168X10MX2PT	5
1168X10MX4PP	5
1168X10MX4PT	2
1168X10MX6PP	1
1168X10MX6PT	2
1168X10MX8PT	1
1168X12MX4PP	5
1168X12MX4PT	2
1168X12MX6PP	2
1168X12MX6PT	2
1168X12MX8PT	2
1168X2	5
1168X2.5	5
1168X2.5A	5
1168X2.5X4	5
1168X2A	5
1168X2X4	5
1168X4	5
1168X4A	5
1168X4MX2PP	5

PART NUMBER	PKG QTY
1168X4MX2PT	2
1168X4MX4PP	5
1168X4MX4PT	2
1168X4MX5MM	2
1168X4X4	5
1168X4X4Z	EA
1168X4X6	EA
1168X4Z	5
1168X5	5
1168X5MX2PP	5
1168X5MX2PT	2
1168X5MX4PP	1
1168X5MX4PT	2
1168X5MX5MM	1
1168X5X4	5
1168X5X4Z	EA
1168X5X6	5
1168X6	5
1168X6MX2PP	5
1168X6MX2PT	5
1168X6MX4PP	5
1168X6MX4PT	2
1168X6MX5MM	2
1168X6X2	5
1168X6X6	5
1168X6X8	EA
1168X6Z	2
1168X8	2
1168X8MX2PP	5
1168X8MX2PT	2
1168X8MX4PP	2
1168X8MX4PT	2
1168X8MX6PP	5
1168X8MX6PT	2
1168X8X8	2
1168X8Z	EA
1168pX2	50
1169PX2.5S	25
1169PX2.5X4S	10
1169PX2S	10
1169PX2X4S	10
1169PX4S	50
1169PX4X4S	50
1169PX4X6S	25
1169PX5S	25
1169PX5X4S	25
1169PX5X6S	10
1169PX6S	50
1169PX6X2S	20
1169PX6X6S	50
1169PX6X8S	10
1169PX8S	25
1169PX8X4S	10
1169PX8X8S	10
1169X10MX4PPS	5
1169X10MX4PT	2
1169X10MX4PTS	2
1169X10MX6PPS	5
1169X10MX6PT	2
1169X10MX6PTS	2
1169X10MX8PTS	2
1169X12MX4PPS	5
1169X12MX4PT	2
1169X12MX4PTS	2
1169X12MX6PPS	5
1169X12MX6PT	2
1169X12MX6PTS	2
1169X12MX8PTS	2
1169X2.5AS	5
1169X2.5S	5
1169X2.5X4S	5
1169X2AS	5
1169X2S	5
1169X2X4S	5
1169X4	5
1169X4MX2PPS	5
1169X4MX2PT	2
1169X4MX2PTS	2
1169X4MX4PPS	5
1169X4MX4PT	2
1169X4MX4PTS	1
1169X4MX5MMS	2
1169X4S	EA
1169X4SZ	5
1169X4X4	5
1169X4X4S	EA
1169X4X4SZ	5

PART NUMBER	PKG QTY
1169X4X6S	EA
1169X4Z	1
1169X5MX2PPS	5
1169X5MX2PT	1
1169X5MX2PTS	2
1169X5MX4PPS	5
1169X5MX4PT	1
1169X5MX4PTS	2
1169X5MX5MMS	1
1169X5S	EA
1169X5SZ	5
1169X5X4S	5
1169X5X6S	EA
1169X5X6SZ	5
1169X6	5
1169X6MX2PPS	5
1169X6MX2PT	2
1169X6MX2PTS	2
1169X6MX4PPS	5
1169X6MX4PT	2
1169X6MX4PTS	2
1169X6S	EA
1169X6SZ	20
1169X6X2S	20
1169X6X6	5
1169X6X6S	EA
1169X6X6SZ	2
1169X6X8S	EA
1169X6X8SZ	2
1169X8MX2PPS	5
1169X8MX2PT	2
1169X8MX2PTS	2
1169X8MX4PPS	5
1169X8MX4PT	2
1169X8MX4PTS	2
1169X8MX6PPS	5
1169X8MX6PT	2
1169X8MX6PTS	2
1169X8S	EA
1169X8SZ	2
1169X8X4S	2
1169X8X8S	2
117	5
117-01001-04	1
117-01001-06	1
117-01001-08	1
117-01001-10	1
117-01004-96	1
117-01006	1
117-01006-90	1
117-01006-96	1
117-01008-96	1
117-01036-97	1
117-01204	1
117-01206	1
117-01208	1
117-01210	1
117-01212	1
117-01404	1
117-01406	1
117-01408	1
117-01410	1
117-01436	1
117-02204	1
117-02204-02	1
117-02204-97	1
117-02206	1
117-02206-97	1
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117-02280-97	1
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117-02326-97	1
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117-03908	1
117-04904	1
117-04906	1
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PART NUMBER	PKG QTY
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117-04912	1
117-09004-03	1
117-09005-03	1
117-09006-03	1
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117-20310-03	1
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117-23296	1
117-23296-03	1
117-23404	1
117-23408	1
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117-31008	1
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117-31808	1
117-35004	1
117-35004-03X	1
117-35006	1
117-35008	1
117-35010	1
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117-45008	1
117-48206	1
117-48404	1
117-48408	1
117-48606	1
117-48808	1
117-49212-03	1
117-50004	1
117-50006	1
117-50008	1

PART NUMBER	PKG QTY
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117-55044-03	1
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117-60006	1
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117-63606	1
117-63686	1
117-63686-03	1
117-63808	1
117-65006	1
117-70004	1
117-70006	1
117-70008	1
117-70008-98	1
117-75004	1
117-75006	1
117-75008	1
117-78404	1
117-78464	1
117-78606	1
117-78806	1
117-90004	1
117-90006	1
117-90008	1
1171PX2.5S	2
1171PX2.5X4S	2
1171PX2S	2
1171PX4S	2
1171PX4X4S	2
1171PX4X6S	1
1171PX6S	10
1171PX6X6S	1
1171PX6X8S	1
1171PX8S	1
1171PX8X4S	1
1171PX8X8S	1
1171X10MX4PPS	5
1171X10MX4PTS	1
1171X10MX6PPS	5
1171X10MX6PTS	1
1171X12MX4PPS	1
1171X12MX4PTS	5
1171X12MX6PPS	1
1171X12MX6PTS	1
1171X12MX8PTS	1
1171X2.5AS	5
1171X2.5S	5
1171X2.5X4S	5
1171X2AS	5
1171X2S	5
1171X4MX2PPS	1
1171X4MX2PTS	1
1171X4MX5MMS	1
1171X4S	5
1171X4X4S	EA
1171X4X4SZ	5
1171X4X6S	5
1171X5MX2PPS	2
1171X5MX2PTS	1
1171X5MX4PPS	2
1171X5MX4PTS	1
1171X5MX5MMS	2
1171X6MX2PPS	1
1171X6MX2PTS	2
1171X6MX4PPS	2
1171X6MX4PTS	1
1171X6S	5
1171X6X6S	5
1171X6X8S	5
1171X8MX2PPS	1
1171X8MX2PTS	2
1171X8MX4PPS	1
1171X8MX4PTS	1
1171X8MX6PTS	2
1171X8S	2
1171X8X4S	2
1171X8X8S	2
1172PX2.5S	2
1172PX2.5X4S	2
1172PX2S	2
1172PX4S	2
1172PX4X4S	2
1172PX4X6S	1

PART NUMBER	PKG QTY
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1172PX6X6S	1
1172PX6X8S	1
1172PX8S	1
1172PX8X4S	1
1172PX8X8S	10
1172X10MX4PPS	1
1172X10MX4PTS	1
1172X10MX6PPS	1
1172X10MX6PTS	1
1172X12MX4PPS	2
1172X12MX4PTS	2
1172X12MX6PPS	2
1172X12MX6PTS	2
1172X12MX8PTS	2
1172X2.5AS	5
1172X2.5S	5
1172X2.5X4S	5
1172X2AS	5
1172X2S	5
1172X4MX2PPS	5
1172X4MX2PTS	2
1172X4MX5MMS	1
1172X4S	5
1172X4X4S	EA
1172X4X4SZ	5
1172X4X6S	5
1172X5MX2PPS	2
1172X5MX2PTS	1
1172X5MX4PPS	2
1172X5MX4PTS	2
1172X5MX5MMS	2
1172X6MX2PPS	5
1172X6MX2PTS	1
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1172X6MX4PTS	1
1172X6S	5
1172X6X6S	5
1172X6X8S	2
1172X8MX2PPS	2
1172X8MX2PTS	1
1172X8MX4PPS	5
1172X8MX4PTS	2
1172X8MX6PPS	2
1172X8MX6PTS	2
1172X8S	2
1172X8X4S	2
1172X8X8S	2
1174X10M	1
1174X12M	1
1174X2	5
1174X2.5	5
1174X4	5
1174X4M	2
1174X5	5
1174X5M	2
1174X6	5
1174X6M	2
1174X8	5
1174X8M	2
118	5
1180X10MX4PP	2
1180X10MX6PP	2
1180X12MX6PP	2
1180X2	5
1180X2.5	5
1180X2.5X4	5
1180X2X4	5
1180X4	5
1180X4MX2PP	1
1180X4X4	5
1180X5	5
1180X5MX2PP	2
1180X5X4	5
1180X6	5
1180X6MX2PP	1
1180X6MX4PP	1
1180X6X6	5
1180X8	5
1180X8MX2PP	1
1180X8MX4PP	1
1180X8X8	5
1181X2.5A	1
1181X2.5X2	1
1181X2X2	1
1181X4X2	1
1181X4X4	1

PART NUMBER	PKG QTY
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1181X6X6	1
1182X2.5A	1
1182X4X2	1
1182X4X4	1
1182X6X4	1
1182X6X6	1
1183X2X2	1
1183X4X4	1
1183X6X6	1
1183XAXA	1
1184X1X2	1
1184X1X4	1
1184X1X6	1
1184X1XA	1
1185X2X2	1
1185X2X4	1
1185X2X6	1
1185X4X4	2
1185X6X6	2
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12-112-C	1
12-612-A	1
12-612-B	1
12-612-C	1
12-F00-A	1
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120-00424-01	1
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120-72275-05	1
120-72275-09	1
120-72275-11	1
120-72275-13	1
120-72275-17	1
120-CT	325
1202X2	5
1202X4	5

PART NUMBER	PKG QTY
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1202X6	5
1202X8	5
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1206-10S	1
1206-12C	1
1206-12S	1
1206-16C	1
1206-16S	1
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1206-4S	1
1206-5C	1
1206-5S	1
1206-6C	1
1206-6S	1
1206-8C	1
1206-8S	1
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121-00008-64	1
121-00008-70	1
121-00009-51	1
121-00010-53	1
121-00010-70	1
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121-00012-70	1
121-00013-51	1
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121-00114-70	1
121-00116-13	1
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121-00117-51	1
121-00120-51	1
121-00125-51	1
121-00212-51	1
121-00904-81GN	1
121-01006-76	1
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1210-12S	1
1210-4S	1
1210-5S	1
1210-6S	1
1210-8S	1
1212-16S	1
1212-20S	1
1212-24S	1
122	5
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1229X6P	1
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124	5
124-10165	1
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124-10169	1
124-10170	1
124-10390	1
124-10410	1
124-10698	1
124-10699	1

PART NUMBER	PKG QTY
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125	5
126	5
1260X2B	25
1260X3B	25
1260X4	50
1260X4B	50
1260X5	50
1260X5B	25
1260X6	50
1260X6B	25
1260X8	20
1260X8B	10
1261X2	10
1261X2B	10
1261X3	10
1261X3B	10
1261X4	20
1261X4A	25
1261X4B	25
1261X5	10
1261X5A	10
1261X6	10
1261X6A	1
1261X6B	25
1261X8	10
1261X8A	10
1262X2	10
1262X3	10
1262X4	10
1262X46	5
1262X4X4S	5
1262X4X6	5
1262X5	5
1262X6	5
1262X6S	5
1262X8	5
1264X4	10
1264X46	5
1264X5	5
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1264X6X6X4	5
1264X8	5
1265X46	5
1266X2	5
1266X3	5
1266X4	10
1266X46	5
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1268X46X4	10
1268X4A	10
1268X4X1	1
1268X4X4	10
1268X4X6	5
1268X5	10
1268X5X4	10
1268X6	10
1268X6-CT	650
1268X6X2	5
1268X6X6	5
1268X8	5
1268X8X4	10
1268X8X8	10
1269X2	10
1269X2X1	5
1269X3	25
1269X4	10
1269X4-CT	900
1269X46	10
1269X46X4	5
1269X4X1	1
1269X4X4	10
1269X4X4L	5
1269X4X6	EA
1269X4Z	10

PART NUMBER	PKG QTY
1269X5	10
1269X5X4	10
1269X6	10
1269X6X2	10
1269X6X6	5
1269X8	10
1269X8X4	10
127	5
1270X2	5
1270X4	2
1270X46	5
1270X4X4	1
1270X5	5
1270X6	10
1270X8	5
1271X4	2
1271X46	5
1271X4X4X4	10
1271X5	5
1271X6	10
1271X8	5
1272X3	5
1272X4	10
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1272X5	5
1272X6	10
1272X8	5
1274X2	5
1274X4	10
1274X4X4S	5
1274X5	5
1274X6	5
1274X8	5
1277X4	5
1277X4X4X4	5
1277X4X4X6	5
128	EA
1290-10B	EA
1290-16B	EA
12CA12-12	EA
12CAB12-12	EA
12CAR12-12	2
1.20E-111	2
12E-12L	1
12E-362	1
12E-412	2
12E-512	1
12E-612	5
12E-612-CT	100
12E-652	1
12E-672	1
12E-692	1
12E-82P	1
12E-A32	1
12E-J12	1
12E-L72	1
12E-S72	1
12E-T60	1
12E-T62	1
12E-X92	1
12E-Y60	1
12E-Y62	1
12E-Z92	1
12S-112	1
12S-612	1
12U-062	5
12U-062-CT	70
12U-108	5
12U-112	10
12U-112-CT	70
12U-116	2
12U-116-CT	60
12U-12L	1
12U-12P	1
12U-12S	1
12U-162	1
12U-20F	1
12U-212	2
12U-22A	1
12U-22C	1
12U-22D	1
12U-25F	1
12U-262	2
12U-30K	2
12U-312	1
12U-362	5

PART NUMBER	PKG QTY
12U-362-CT	60
12U-412	5
12U-412-CT	60
12U-510	2
12U-512	5
12U-512-CT	72
12U-514	2
12U-514-CT	72
12U-516	2
12U-516-CT	60
12U-52P	1
12U-52T	1
12U-55T	1
12U-560	1
12U-562	1
12U-564	1
12U-610	5
12U-610-CT	70
12U-612	10
12U-612-CT	60
12U-614	5
12U-614-CT	55
12U-616	2
12U-616-CT	50
12U-652	2
12U-652-CT	35
12U-670	2
12U-672	2
12U-672-CT	40
12U-692	2
12U-692-CT	45
12U-696	1
12U-70C	1
12U-72D	1
12U-75C	1
12U-75E	1
12U-762	1
12U-82P	2
12U-A30	2
12U-A32	2
12U-A32-CT	45
12U-A36	1
12U-A72	2
12U-E72	2
12U-E76	1
12U-G12	2
12U-G16	1
12U-G42	2
12U-G46	1
12U-G72	2
12U-G76	2
12U-J12	5
12U-J12-CT	56
12U-J40	1
12U-J42	2
12U-L70	1
12U-L72	2
12U-L76	1
12U-M12	1
12U-P10	1
12U-P12	5
12U-P12-CT	70
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12U-R72	2
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12U-S72	5
12U-S72-CT	50
12U-S76	5
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12X853	1
12X863	1
12Z-062	1
12Z-108	1
12Z-112	1
12Z-116	1
12Z-12L	1
12Z-12PA	1
12Z-12S	1

PART NUMBER	PKG QTY
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12Z-20F	1
12Z-212	1
12Z-22A	1
12Z-22C	1
12Z-22D	1
12Z-25E	1
12Z-25F	1
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12Z-362	1
12Z-412	1
12Z-510	1
12Z-512	1
12Z-514	1
12Z-516	1
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12Z-52T	1
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12Z-608	1
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130	5
13004-1	5
13004-A	2
13004-B	10
13004-C	10
13004-J	1
1300411-12	1
1300411-25	1
1300411-50	1
130041J-12	1

PART NUMBER	PKG QTY
130041J-25	1
130041J-50	1
13004JJ-12	1
13004JJ-25	1
13004JJ-50	1
13006-1	5
13006-A	2
13006-B	2
13006-C	10
13006-J	2
1300611-12	1
1300611-25	1
1300611-50	1
130061J-12	1
130061J-25	1
130061J-50	1
13006JJ-12	1
13006JJ-25	1
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131-02005	1
131-02008	1
131-03008	1
131-03010	1
131-03013	1
131-03015	1
131-04013	1
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131-16586-36	1
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PART NUMBER	PKG QTY
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131-44087	1
131-44118	1
131-44146	1
131-44165	1
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131-82004	1
131-82009	1
131-82014	1
131-82016	1
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131-82067	1
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131-82069	1
131-82070	1

PART NUMBER	PKG QTY
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131-82080	1
131-82133	1
131-82136	1
131-82141	1
131-82142	1
131-82144	1
131-82188	1
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131-82246	1
131-82272	1
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131-82281	1
131-82282	1
131-82306	1
131-82309	1
131-82312	1
131-87079	1
131-87080	1
131-87112	1
131-87127	1
131-87142	1
131-90002	1
131-90004	1
131-90023	1
131-90024	1
131-91003	1
131-91004	1
131-91005	1
131-91007	1
131-91015	1
131-93001	1
131-93002	1
131-94003	1
131-94009	1
131-95046	1
131-95047	1
131-95048	1
131-95049	1
131-95052	1
131X3	10
131X4	10
131X5	10
131X6	10
134-90686	1
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134-96832-37	1
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1342	2
1343	2
1344	2
1345	5
1346	2
135	10
135-CT	1100
1351	EA
135Z	10
1360X10	10
1360X12	10
1360X4	20
1360X6	20
1360X8	20
1361X10	5
1361X10V	2
1361X12	5
1361X4	5
1361X6	20
1361X8	5
1362X10	5
1362X12	1
1362X16	2
1362X4	5
1362X6	5
1362X8	5
1364X6	2
1364X6X6X8	2
1364X8	5
1365X10	2
1365X6	5
1365X8	5
1366X6	2
1366X6X2	5
1366X6X6	5
1366X8	5
1368X10	5
1368X10X6	EA

PART NUMBER	PKG QTY
1368X10Z	1
1368X12	1
1368X12X12	1
1368X4	5
1368X4X4	EA
1368X4X4Z	EA
1368X4Z	10
1368X6	10
1368X6X2	EA
1368X6X2Z	5
1368X6X6	EA
1368X6X6Z	5
1368X6X8	EA
1368X6X8Z	EA
1368X6Z	5
1368X8	5
1368X8X4	EA
1368X8X4Z	2
1368X8X8	EA
1368X8X8Z	EA
1368X8Z	2
1369X10	2
1369X10X6	EA
1369X10Z	5
1369X12L	2
1369X4	5
1369X4X4	EA
1369X4X4Z	10
1369X6	10
1369X6L	2
1369X6X2	EA
1369X6X2L	2
1369X6X2Z	5
1369X6X6	EA
1369X6X6Z	5
1369X6X8	EA
1369X6Z	5
1369X8	5
1369X8L	1
1369X8X4	2
1369X8X8	EA
1369X8Z	5
1370X6	5
1370X6X6	2
1370X8	2
1371X6	5
1371X6X6X6	2
1371X8	5
1372X10X8X8	2
1372X6	2
1372X6X6X2	5
1372X6X6X6	5
1372X8	1
13804H-102	1
1380X10	5
1380X6	5
1380X6X6	2
1380X8	5
1382X6X4X4	5
1390X6	5
1390X6X6	EA
1390X6X6Z	5
1390X6X8	5
1390X8	5
1390X8X8	5
1391X6	1
1391X6X6	1
1391X6X8	1
1391X8	2
1391X8X8	2
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140-04231	1

PART NUMBER	PKG QTY
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140-04263	1
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140-04288	1
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140-05479-01	1
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140-05482	1
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140-05485-03	1
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140-05577	1
140-05579	1
140-05580	1
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140-05582	1
140-05583	1
140-05584	1
140-05597	1
140-05599	1

PART NUMBER	PKG QTY
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140-05602	1
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140-05605	1
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140-05615	1
140-05634	1
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140-06895-03	1
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140-06902	1
140-06904	1
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140-06906	1
140-06908	1
140-06909	1
140-06914	1

PART NUMBER	PKG QTY
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140-06985-08	1
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141-20884-26100	1
141-21202-26100	1
141-21237	1
141-92571	1
141-95058-01112	1
1410	2
1421-18	1
1421-24	1
1421-32	1

PART NUMBER	PKG QTY
1421-60	2
1421-60A	1
1421-7	1
1422	2
1423	2
1424	10
1424A	5
1425	25
1425A	5
1426	10
1426A	5
1427	1
1428	5
1429	5
1432	2
1433	2
1437	2
1439	2
1440	2
1441	5
1442	2
1443	2
1444	1
1445	5
1446	5
1447	5
145	10
145-CT	700
1451	EA
145Z	10
1460X10	10
1460X12	10
1460X4	10
1460X6	20
1460X8	10
1461X10	5
1461X12	5
1461X4	5
1461X4-CT	2200
1461X6	10
1461X6-CT	1200
1461X8	5
1461X8-CT	600
1462X10	2
1462X10-CT	125
1462X12	1
1462X4	5
1462X4-CT	600
1462X6	10
1462X6-CT	350
1462X8	5
1462X8-CT	175
1464X4	10
1464X4-CT	300
1464X4X6X6	2
1464X6	1
1464X6-CT	150
1464X6X6X4	1
1464X6X6X8	2
1464X8	1
1464X8X6X8	2
1464X8X8X6	2
1465X10	2
1465X6	5
1465X8	5
1466X12	2
1466X4	1
1466X6	5
1466X6X2	5
1466X6X6	5
1466X8	5
1468X10	5
1468X10-CT	150
1468X10X12	2
1468X10X6	EA
1468X10X6Z	EA
1468X10Z	1
1468X12	1
1468X12X12	EA
1468X12X12Z	5
1468X4	5
1468X4-CT	850
1468X4X1	5
1468X4X4	5
1468X4X4-CT	EA
1468X4X4Z	2
1468X4X6	EA

PART NUMBER	PKG QTY
1468X4X6Z	EA
1468X4Z	10
1468X6	10
1468X6-CT	450
1468X6X2	EA
1468X6X2Z	10
1468X6X6	10
1468X6X6-CT	EA
1468X6X6Z	5
1468X6X8	EA
1468X6X8Z	EA
1468X6Z	5
1468X8	5
1468X8-CT	250
1468X8X12	EA
1468X8X12Z	10
1468X8X4	10
1468X8X4-CT	EA
1468X8X4Z	10
1468X8X8	10
1468X8X8-CT	EA
1468X8X8Z	EA
1468X8Z	5
1469X10	5
1469X10-CT	110
1469X10X12	2
1469X10X12-CT	80
1469X10X6	EA
1469X10X6Z	EA
1469X10Z	2
1469X12	2
1469X12L	2
1469X12X6	2
1469X4	5
1469X4-CT	600
1469X4X4	5
1469X4X4-CT	EA
1469X4X4Z	5
1469X4X6	EA
1469X4X6Z	EA
1469X4Z	10
1469X6	10
1469X6-CT	350
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1469X6LZ	5
1469X6X2	5
1469X6X2-CT	EA
1469X6X2L	5
1469X6X2Z	5
1469X6X6	5
1469X6X6-CT	EA
1469X6X6Z	5
1469X6X8	5
1469X6X8-CT	EA
1469X6X8Z	EA
1469X6Z	5
1469X8	5
1469X8-CT	150
1469X8L	EA
1469X8LZ	5
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1469X8X4Z	10
1469X8X8	10
1469X8X8-CT	EA
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1469X8Z	5
1470X4	5
1470X6	10
1470X6X6	10
1470X8	5
1471X10X8X4	2
1471X4	EA
1471X4Z	5
1471X6	5
1471X6X4X4	EA
1471X6X4X4Z	5
1471X6X6X6	EA
1471X6X6X6Z	5
1471X8	10
1472X10X10X4	1
1472X4	5
1472X6	5
1472X6X4X4	5
1472X6X6X2	5
1472X6X6X6	EA
1472X6X6X6Z	EA

PART NUMBER	PKG QTY
1472X6Z	5
1472X8	5
1472X8X6X6	2
1472X8X8X4	EA
1472X8X8X4Z	EA
1472X8Z	5
1474X10	2
1474X4	5
1474X6	5
1474X8	5
1477X10X10X4	2
1477X6	1
1477X8X8X4	2
1480X10	EA
1480X10Z	5
1480X4	5
1480X4X4	EA
1480X4Z	5
1480X6	5
1480X6-CT	350
1480X6X6	EA
1480X6X6Z	EA
1480X6Z	5
1480X8	5
1480X8-CT	175
1480X8X4	EA
1480X8X4Z	5
1480X8X8	EA
1480X8X8Z	EA
1480X8Z	5
1482X10X4X8	2
1482X6X4X4	2
1482X6X4X6	1
1483X6X6X4	1
1484X10	5
1484X10-CT	1200
1484X12	5
1484X4	10
1484X4-CT	12000
1484X6	10
1484X6-CT	4700
1484X8	10
1484X8-CT	2000
1485X10	25
1485X12	25
1485X4	25
1485X6	25
1485X8	25
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1502X12	2
1502X4	2
1502X5	2
1502X6	2
1502X8	2
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151-06445	1
151-06446	1
151-06492	1
151-06500	1
151-06501	1
151-06504	1
151-06505	1
151-06520	1
151-06533	1
151-06534	1

PART NUMBER	PKG QTY
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151-06539A	1
151-06547	1
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151-06560	1
151-07466A	1
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151-08409	1
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151-08447	1
151-08450	1
151-08453	1
151-08463	1
151-08469	1
151-08473	1
151-08473A	1
151-08474	1
151-08474A	1
151-11438	1
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151-81445-06693	1
151-81502-14645	1
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151-84130-10197	1
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151-89520-01	1
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151-89607	1
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1513	2
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1529X8	2
15312H-312	1
15312H-412	1
1531X2	2
1531X4	2
1531X6	2
1531X8	2
1538	25
1539	1
154-00516	1

PART NUMBER	PKG QTY
154-00516A	1
154-21606	1
154-21606-26100	1
154-99008	1
154-99008-00100	1
1540	1
1548	10
1552X10	25
1552X9	25
1553	1
1554	1
156-24504-26100	1
156-24516-26100	1
156-24561-26100	1
156-24577-26100	1
156-24579-26100	1
156-25544-26100	1
156-27006-26100	1
156-28510-26100	1
156-30564-26100	1
156-31504-26100	1
156-31506-77	1
156-31510-26100	1
156-31512-26100	1
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156-31516-40100	1
156-31546-26100	1
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156-31666-26100	1
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156-31698-26100	1
156-31699-26100	1
156-32359-26100	1
156-70604-26100	1
156-99007-26100	1
1561PX10G	10
1561PX12G	10
1561PX2	25
1561PX4	25
1561PX4G	50
1561PX5	25
1561PX5G	50
1561PX6	25
1561PX8	25
1561PX8G	50
1561X10G	10
1561X2	25
1561X4	25
1561X4G	25
1561X5	25
1561X5G	25
1561X6	25
1561X6G	25
1561X8	25
1561X8G	10
1562PX10G	2
1562PX10X6G	2
1562PX10X8G	2
1562PX12G	2
1562PX4	5
1562PX4G	5
1562PX4X2	2
1562PX5	2
1562PX5G	2
1562PX5X4G	2
1562PX6	5
1562PX6G	5
1562PX6X4	2
1562PX6X4G	2
1562PX8	5
1562PX8G	5
1562PX8X6	2
1562PX8X6G	2
1562X10G	2
1562X10X6G	2
1562X10X8G	2
1562X12G	2
1562X4	5
1562X4G	5
1562X4X2	2

PART NUMBER	PKG QTY
1562X5	2
1562X5G	2
1562X5X4	2
1562X6	5
1562X6G	5
1562X6X4	2
1562X6X4G	2
1562X8	5
1562X8G	5
1562X8X6	2
1562X8X6G	2
1563	2
1564PX10G	2
1564PX10X10X6G	2
1564PX12G	2
1564PX2	2
1564PX4	5
1564PX4G	5
1564PX5	2
1564PX5G	2
1564PX6	5
1564PX6G	5
1564PX8	5
1564PX8G	5
1564X10G	2
1564X10X10X6G	2
1564X12G	2
1564X2	2
1564X4	5
1564X4G	5
1564X5	2
1564X5G	2
1564X6	5
1564X6G	5
1564X8	5
1564X8G	5
1565PX10G	5
1565PX4	5
1565PX4G	5
1565PX5G	2
1565PX6	5
1565PX6G	5
1565PX8	5
1565PX8G	5
1565X10G	2
1565X4	5
1565X4G	5
1565X5	2
1565X6	5
1565X6G	5
1565X8G	5
1566PX10G	2
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1566PX4G	2
1566PX4X4	2
1566PX4X4G	2
1566PX5X4	2
1566PX5X4G	2
1566PX6	2
1566PX6G	2
1566PX6X6	2
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1566PX6X8	2
1566PX6X8G	2
1566PX8	2
1566PX8G	2
1566PX8X8	2
1566PX8X8G	2
1566X10G	2
1566X4	2
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1566X4X4	2
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1566X8X8	2
1566X8X8G	2
1568PX10G	2
1568PX10X6G	2
1568PX12X12G	2

PART NUMBER	PKG QTY
1568PX2X2	2
1568PX4	10
1568PX4G	10
1568PX4X4	10
1568PX4X4G	10
1568PX4X6	10
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1568PX5	5
1568PX5G	5
1568PX5X4	5
1568PX5X4G	5
1568PX6	10
1568PX6G	10
1568PX6X2	5
1568PX6X2G	2
1568PX6X6	10
1568PX6X6G	10
1568PX6X8	5
1568PX6X8G	5
1568PX8	10
1568PX8G	10
1568PX8X2G	5
1568PX8X4	5
1568PX8X4G	5
1568PX8X8	10
1568PX8X8G	2
1568X10G	2
1568X10X6G	2
1568X12X12G	2
1568X2	2
1568X4	10
1568X4G	10
1568X4X4	10
1568X4X4G	10
1568X4X6G	10
1568X5	10
1568X5G	10
1568X5X4	10
1568X5X4G	10
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1568X6G	10
1568X6X2	10
1568X6X6	10
1568X6X6G	10
1568X6X8	10
1568X6X8G	10
1568X8	10
1568X8G	5
1568X8X2G	5
1568X8X4	5
1568X8X4G	5
1568X8X8	10
1568X8X8G	10
1569PX10X6G	2
1569PX10X8G	2
1569PX2	10
1569PX4	10
1569PX4G	10
1569PX4X4	10
1569PX4X4G	10
1569PX4X6	5
1569PX4X6G	5
1569PX5	5
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1570PX8G	2
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1570PX8X8G	2
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1570X8	2
1570X8X8	2
1571PX10G	2
1571PX12G	2
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1571PX4G	2
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1571PX4X4X4G	2
1571PX5X4X5G	2
1571PX6	2
1571PX6G	2
1571PX6X6X6G	2
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1571X8G	2
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1572PX12G	2
1572PX12X12X12G	2
1572PX4	2
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1572PX4X4X4G	2
1572PX5X5X4G	2
1572PX6	2
1572PX6G	2
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1572PX8	2
1572PX8G	2
1572PX8X8X8G	2
1572X4	2
1572X4G	2
1572X4X4X4	2
1572X4X4X4G	2
1572X5X5X4G	2
1572X6	2
1572X6G	2
1572X6X6X6	2
1572X6X6X6G	2
1572X8	2
1572X8G	2
1572X8X8X8	2
1572X8X8X8G	2
1574PX20X12G	2
1574PX4	2
1574PX4G	2
1574PX5	2
1574PX5G	2

PART NUMBER	PKG QTY
1574PX6	2
1574PX6G	2
1574PX8	2
1574PX8G	2
1574X12G	2
1574X4	2
1574X4G	2
1574X5	2
1574X5G	2
1574X6	2
1574X6G	2
1574X8	2
1574X8G	2
1584PX4	10
1584PX5	10
1584PX6	10
1584PX8	10
1584X4	10
1584X5	10
1584X6	10
1584X8	10
1594	5
1595A	2
1596	1
1597	1
15CA12-12	1
15CA48-12	EA
15CAB12-12	EA
15CAB48-12	EA
15CAR12-12	EA
15CAR48-12	1
16-116-A	1
16-116-B	1
16-116-C	1
16-616-A	1
16-616-B	1
16-616-C	1
16-F00-A	1
16-F00-B	1
16-S.87-316	1
16-S16-A	1
1611X10	5
1611X12	5
1611X16	5
1611X3	5
1611X4	5
1611X5	25
1611X6	5
1611X8	25
1621X4	2
1621X6	2
1621X8	2
162X10	2
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162X3	2
162X4	2
162X5	2
162X6	2
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163X5	1
163X6	1
1641X4	2
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1641X6	2
1641X8	2
164X3	2
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164X8	2
1651X4	2
1651X6	2
1651X8	2
165X3	2
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165X5	2
165X6	2
165X8	2
1661X4	2
1661X4X4	2
1661X6	2
1661X8	2
166X10	2
166X2	5

PART NUMBER	PKG QTY
166X3	5
166X4	2
166X4X4	2
166X5	2
166X5X4	2
166X6	2
166X6X2	2
166X8	2
1681X16	2
1681X4	5
1681X4X4	5
1681X5	2
1681X6	5
1681X6X2	5
1681X6X6	5
1681X8	5
1681X8X4	2
1681X8X8	2
168X10	2
168X12	2
168X12X12	2
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168X2	5
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168X3	5
168X4	5
168X4X4	5
168X5	5
168X5X4	5
168X6	5
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168X6X6	5
168X6X8	5
168X8	5
168X8X4	5
168X8X8	5
1691X10	2
1691X16	2
1691X4	5
1691X4X4	5
1691X5	5
1691X5X4	5
1691X6	5
1691X6X2	5
1691X6X6	5
1691X6X8	2
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1691X8X4	5
1691X8X8	5
169X10	5
169X12	5
169X12X12	5
169X16	5
169X2	5
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169X4	5
169X4X4	5
169X5	5
169X5X4	5
169X6	5
169X6X2	5
169X6X6	5
169X6X8	5
169X8	5
169X8X4	5
169X8X8	5
1.60E-115	1
16E-16L	1
16E-366	1
16E-516	1
16E-616	2
16E-656	1
16E-676	1
16E-696	1
16E-A36	1
16E-L76	1
16E-S76	1
16S-116	1
16S-616	1
16U-066	5
16U-112	5
16U-116	5
16U-116-CT	40
16U-166	1
16U-16L	1
16U-16S	1
16U-266	1

PART NUMBER	PKG QTY
16U-28A	1
16U-28C	1
16U-28D	1
16U-30F	1
16U-33K	1
16U-366	1
16U-514	1
16U-516	2
16U-516-CT	40
16U-520	1
16U-56P	1
16U-58T	1
16U-60T	1
16U-612	2
16U-614	2
16U-616	5
16U-616-CT	40
16U-620	5
16U-656L33	2
16U-676	1
16U-676-CT	30
16U-677	1
16U-696	2
16U-696-CT	30
16U-766	2
16U-78D	1
16U-80C	1
16U-80E	1
16U-86P	1
16U-A36	2
16U-A40	1
16U-A76	1
16U-E76	1
16U-G16	2
16U-G20	1
16U-G46	2
16U-G50	1
16U-G76	2
16U-G80	2
16U-J16	1
16U-J16-CT	30
16U-J46	1
16U-J50	1
16U-L72	1
16U-L76	2
16U-L80	1
16U-P16	2
16U-P66	1
16U-S72	1
16U-S76	5
16U-S76-CT	35
16U-S80	1
16U-T16	1
16X251	1
16X252	1
16X262	1
16X863	1
16Z-066	1
16Z-112	1
16Z-116	1
16Z-120	1
16Z-166	1
16Z-16L	1
16Z-16S	1
16Z-266	1
16Z-28A	1
16Z-28C	1
16Z-28D	1
16Z-30E	1
16Z-30F	1
16Z-33K	1
16Z-366	1
16Z-514	1
16Z-516	1
16Z-520	1
16Z-56P	1
16Z-58T	1
16Z-60T	1
16Z-612	1
16Z-614	1
16Z-616	1
16Z-620	1
16Z-656	1
16Z-676	1
16Z-677	1
16Z-696	1
16Z-766	1

PART NUMBER	PKG QTY
16Z-78D	1
16Z-80C	1
16Z-80E	1
16Z-86P	1
16Z-A36	1
16Z-A40	1
16Z-A76	1
16Z-BC16	1
16Z-BC76	1
16Z-BF16	1
16Z-BF36	1
16Z-BF56	1
16Z-BF76	1
16Z-E76	1
16Z-G16	1
16Z-G20	1
16Z-G46	1
16Z-G50	1
16Z-G76	1
16Z-G80	1
16Z-G84	1
16Z-H03	1
16Z-H04	1
16Z-H53	1
16Z-J16	1
16Z-J46	1
16Z-J50	1
16Z-L72	1
16Z-L76	1
16Z-L80	1
16Z-P16	1
16Z-P66	1
16Z-S72	1
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1711X4	2
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1721X4	2
1721X6	2
1721X8	2
172X3	2
172X4	2
172X4X4X4	2
172X5	2
172X6	2
172X8	2
1741X4	1
1741X6	1
1741X8	2
174X4	2
174X6	2
174X8	5
1761X4	2
1800-T	1
1800KX10	1
1800KX12	2
1800KX2.5	1
1800KX3	1
1800KX4	1
1800KX6	1
1800KX8	1
1800TRK	1
1829X4	5
1829X6	5
1829X8	5
185	5
1861X10	1
1861X12	1
1861X2.5	1
1861X3	1

PART NUMBER	PKG QTY
1861X4	1
1861X6	1
1861X8	1
1862X10	1
1862X2.5	1
1862X3	1
1862X4	10
1862X6	10
1862X8	10
1864X4	10
1864X6	10
1864X8	10
1865X4	1
1865X6	1
1865X8	1
1866X4	1
1866X4X4	1
1866X6	1
1866X6X2	1
1866X6X6	1
1866X8	1
1866X8X4	1
1866X8X8	1
1868X10	1
1868X10X6	1
1868X12	1
1868X2.5	1
1868X2.5X1	1
1868X3	1
1868X4	10
1868X4X4	10
1868X4X6	1
1868X6	10
1868X6X2	1
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1869X10	1
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1869X10X6S	1
1869X2.5	1
1869X2.5X1	1
1869X3	1
1869X3X4	1
1869X4	10
1869X4S	10
1869X4X4	10
1869X4X4S	1
1869X4X6	1
1869X4X6S	1
1869X6	10
1869X6L	5
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1869X6X6S	10
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1869X8X4	1
1869X8X4S	1
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1871X4X4S	1
1871X6	10
1871X6S	1
1871X6X4X4	5
1871X6X6	1
1871X6X6S	1
1871X6X8	1
1871X8	1

PART NUMBER	PKG QTY
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1871X8X4S	1
1871X8X8S	1
1872X3	1
1872X3S	1
1872X4	1
1872X4S	1
1872X4X4	1
1872X4X4S	1
1872X6	1
1872X6S	1
1872X6X2S	1
1872X6X6	1
1872X6X6S	1
1872X8	1
1872X8S	1
1872X8X4	1
1872X8X4S	1
1872X8X8	1
1872X8X8S	1
1873X4X4	1
1873X6X6	1
1873X8X8	1
1874X10X10	1
1874X4X4	1
1874X6X6	1
1874X8X8	1
1877X6	5
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1880X12	1
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1880X8X4S	1
1880X8X8	1
1880X8X8S	1
1883X6X6X4	5
190	5
1900	5
1901	5
1902	5
190261-6S	1
190296-4S	1
190296-8S	1
190297-4S	1
190297-8S	1
1903	5
190302-6S	EA
190371-5-6S	0
1904	1
1905	5
190516-6S	1
1906	5
190600-10C	1
190600-12C	1
190600-16C	EA
190600-3S	1
190600-4C	1
190600-5C	1
190600-6C	1
190600-8C	1
190627-12-12C	1
190627-16-16C	1
190627-2-4C	1
190627-4-5C	1
190627-6-6C	1
190627-8-10C	1
190672-4B	1
190672-6B	1
1907	5
190772-10S	1
190772-12S	1
190772-16S	1
190772-20S	1
190772-4S	1

PART NUMBER	PKG QTY
190772-5S	1
190772-6S	1
190772-8S	1
190773-10S	1
190773-12S	1
190773-16S	1
190773-20S	1
190773-4S	1
190773-6S	1
190773-8S	1
1908	5
1909	1
190950-10S	1
190950-12S	1
190950-4S	1
190950-5-6S	1
190950-5S	1
190950-6S	1
190950-8S	1
1910	1
1911	5
1912	5
1913	5
191321-4S	1
191321-8S	1
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1933	5
1935	5
1936	5
1937	5
1938	5
1939	5
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1942	5
1943	5
1944	5
1945	5
1946	5
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1949	EA
1950	5
1A6DL4	0
1F40104-06C	1
1F40104-08C	1
1F40104-10C	1
1F40104-12C	1
1F40104-16C	1
1F40105-06C	1
1F40105-08C	1
1F40105-10C	1
1F40105-12C	1
1F40105-16C	1
1F40106-06	1
1F40106-08	1
1F40106-10	1
1F40106-12	1
20-120-A	1
20-120-C	1
20-620-A	1
20-620-B	1
20-620-C	1
20-F00-A	1
2003X12	10
2003X16	10
2003X20	10
2003X4	10
2003X6	10
2003X8	10
2004	1
2004-16-16S	1

PART NUMBER	PKG QTY
2004X12S	1
2004X16S	1
2004X20S	1
2004X4S	1
2004X6S	1
2004X8S	1
2005	1
2005I	1
2005T	1
2005X12S	1
2005X16S	1
2005X20S	1
2005X4S	1
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2015X16X12S	1
2015X16X8S	1
2015X20X12S	1
2015X20X16S	1
2015X8X6S	1
2016T	1
2016X12S	1
2016X16S	1
2016X20S	1

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2019X12S	10
2019X16S	10
2019X20S	10
2019X4S	10
2019X6S	10
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2020X8S	1
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2021-24-12S	1
2021-24-16S	1
2021-24-20S	1
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202208-6-4B	1
202208-6-8B	1
202208-8-8B	1
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202220-8-8S	1
2023-12-10S	1
2023-12-8S	1
2023-16-12S	1
2023-16-20S	1
2023-20-20S	1
2023-24-24S	1

PART NUMBER	PKG QTY
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2024-16-8S	1
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202414-4-4S	1
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202414-6-8S	1
202414-8-8S	1
2025-20-20S	1
2025-24-24S	1
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2025-6-4S	1
2027-20-16S	1
2027-8-4S	1
202702-10-4S	1
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2028-8-8S	1
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202X12X8	2
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202X16	2
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202X3	10
202X3-CT	EA
202X3Z	10
202X4	10
202X4-CT	1600
202X4X4	EA
202X4Z	10
202X5	10
202X5-CT	1200
202X5X4	EA
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202X6X6	EA
202X6X6Z	EA
202X6Z	5
202X7	5
202X8	5
202X8X4	5
202X8X8	EA
202X8Z	1
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203006-12-12S	1
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203008-16-16S	1
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203103-6-6S	1
203103-6-8S	1
203103-8-10S	1
203104-4-6S	1
2033-20-16-16S	1
2033-6-6S	1
2033-8-12-12S	1

PART NUMBER	PKG QTY
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203301-2-4S	1
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2040-16-16S	1
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2040-20-20S	1
2040-4-4S	1
2040-6-6S	1
2040-8-8S	1
2041-24-24S	1
2041-4-6S	1
2043-10-10S	1
2046-2-4S	1
2047-12-8S	1
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20603H-604	1
20603H-B00J02	1
20603H-J02	1
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2062-24-20S	1
206209-16-16S	1
206209-4-4S	1
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2063-6-6S	1
2063-8-10S	1
206801-8-8S	1
2070-20-20S	1
2071-10-8S	1
2071-24-24S	1
2071-8-6S	1
208007-4-4S	1
208007-8-8S	1
2081-32-16S	1
2083-20-16S	1
2084-2S-2	1
2084-2S-3/4	1
2084-4S-7/8	1
2084-6S-1	1
2084-6S-2	1
2084-6S-3	1
2084-6S-6	EA
2085-16-16S	0
2087-16-12S	1
2092-20-20S	EA
20CA12-12	1
20S-120	1
20S-620	1
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20U-120	2
20U-120-CT	24
20U-20S	1
20U-35C	1
20U-36K	1
20U-370	1
20U-520	2
20U-60P	1
20U-620	2
20U-620-CT	24
20U-677	2
20U-677-CT	15
20U-770	1
20U-85D	1
20U-88C	1
20U-90P	1
20U-A40	1
20U-A44	1
20U-A80	1
20U-A84	1
20U-E80	1
20U-G20	1
20U-G24	1
20U-G50	1
20U-G80	1
20U-G84	1
20U-J50	1

PART NUMBER	PKG QTY
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20U-P20	1
20U-P67	1
20U-S80	1
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20X252	10
20X254	10
20X262	1
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20ZA-657	1
20ZA-677	1
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20ZA-G46	1
20ZA-G50	1
20ZA-G54	1
20ZA-G76	1
20ZA-G80	1
20ZA-G84	1
20ZA-P20	1
20ZA-S80	1
20ZA-S84	1
211273A	EA
211273AZ	10
211280A	10
21304B-404	1
21304N-102	5
21304N-104	5
21304N-604	5
21304N-604-CT	500
21304N-664	1
21304N-684	1
21304N-B04	1
21304N-E04	1

PART NUMBER	PKG QTY
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21305N-104	5
21305N-605	5
21305N-665	1
21305N-685	1
21305N-B05	1
21305N-E05	1
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21306B-406	1
21306N-106	5
21306N-406	5
21306N-406-CT	250
21306N-466	1
21306N-486	1
21306N-606	5
21306N-666	1
21306N-686	1
21306N-B04	1
21306N-B05	1
21306N-B06	1
21306N-E04	1
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21306N-E06	1
21306N-E44	1
21306N-E45	1
21306N-E46	1
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21308N-108	1
21308N-608	5
21308N-608-CT	150
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21308N-688	1
21308N-B08	1
21308N-E08	1
21308N-E48	1
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21310N-610	5
21310N-610-CT	100
21312B-412	1
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21312N-412	2
21312N-612	2
21316N-116	1
21316N-616	1
21316N-X26	1
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217-38610-03	1
217-38808-03	1
217-40004-03	1
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217-40008-03	1
217-40010-03	1
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217-43404-03	1
217-43604-03	1
217-43606-03	1
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222005-10C	1
222005-11C	1
222005-13C	1
222005-14C	1
222005-15C	1
222005-17C	1
222005-18C	1
222005-19C	1

PART NUMBER	PKG QTY
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222005-23C	1
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2257-12-12S	1
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2257-6-6S	1
2257-8-8S	1
22904P-404	2
22904P-404-12	1
22904P-C00	1
22906P-406	2
22906P-406-12	1
22908P-408	10
22908P-408-12	1
22908P-C00	1
22910P-410	2
22910P-410-12	1
22910P-C00	1
22912P-412	1
230	EA
230Z	1
24-124-A	1
24-124-C	1
24-140-04	2

PART NUMBER	PKG QTY
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24-146-06	2
24-146-08	2
24-147-04	2
24-147-06	2
24-147-08	2
24-148-04	2
24-148-05	2
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24-149-04	2
24-149-06	2
24-240-04	2
24-246-04	2
24-246-06	2
24-247-04	2
24-247-06	2
24-248-05	2
24-248-06	2
24-249-04	2
24-249-06	2
24-624-A	1
24-624-B	1
24-624-C	1
24-S24-A	EA
2412-4-5S	EA
2414-5S	0
24704N-102	5
24704N-104	5
24704N-304	1
24704N-504	1
24704N-604	10
24704N-604-CT	400
24704N-644	1
24704N-664	5
24704N-684	1
24704N-B04	1
24704N-E04	1
24704N-T54	1
24705N-104	5
24705N-305	1
24705N-505	1
24705N-605	5
24705N-605-CT	300
24705N-645	1
24705N-665	1
24705N-685	1
24705N-B05	1
24705N-E05	1
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24706N-E04	1
24706N-E05	1
24706N-E06	1
24706N-T56	1
24708B-Y56	1
24708N-106	5
24708N-108	5

PART NUMBER	PKG QTY
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24708N-406	1
24708N-508	1
24708N-608	10
24708N-608-CT	120
24708N-648	1
24708N-668	5
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24708N-B08	1
24708N-T58	1
24710B-Y58	1
24710B-Y60	1
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24710N-608	5
24710N-610	5
24710N-610-CT	100
24710N-650	1
24710N-668	2
24710N-670	2
24710N-690	1
24710N-T60	2
24712B-Y62	1
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24712N-312	2
24712N-412	2
24712N-452	1
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24712N-492	1
24712N-512	1
24712N-612	5
24712N-612-CT	70
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24716N-616	2
24716N-616-CT	50
24716N-656	1
24716N-676	1
24716N-696	1
24906A-406	10
24906A-466	10
24906A-486	10
24906A-756	10
24906A-W06	10
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24906A-W76	10
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24908A-Z06	10
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24908A-Z17	10
24908A-Z26	10
24908A-Z28	10
24908A-Z34	10
24908A-Z46	10

PART NUMBER	PKG QTY
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24908A-Z68	10
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24908A-Z88	10
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24910A-410	10
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24912A-W52	2
24912A-W70	2
24912A-W90	5
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24X252	10
24X254	25
24X262	1
24X264	25
24X853	10
24X863	5
24Z-124	1
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24Z-A84	1
24Z-G24	1
24Z-G32	1
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24Z-G62	1
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24Z-G84	1
24Z-G92	1
24Z-H55	1
24Z-L84	1
24Z-P24	1
24Z-S84	1
252X10	2
252X12	2
252X2	5
252X3	10
252X4	10
252X5	10
252X6	5
252X7	1

PART NUMBER	PKG QTY
252X8	5
256-31508-77	1
256-31546-77	1
259-2021-12-12	1
259-2021-16-16	1
259-2021-20-16	1
259-2021-20-20	1
259-2021-4-4	1
259-2021-4-6	1
259-2021-6-6	1
259-2021-6-8	1
259-2021-8-8	1
259-2022-16-16	1
259-2022-20-20	1
259-2022-4-4	1
259-2022-6-6	1
259-2022-6-8	1
259-2022-8-8	1
259-2024-16-16	1
259-2024-16-20	1
259-2024-24-24	1
259-2024-4-4	1
259-2024-4-6	1
259-2024-6-6	1
259-2024-8-8	1
259-2027-12-12	1
259-2027-16-16	1
259-2027-4-4	1
259-2027-6-6	1
259-2027-8-8	1
259-202702-12-12	1
259-202702-12-8	1
259-202702-16-16	EA
259-202702-20-20	0
259-202702-24-20	1
259-202702-24-24	1
259-202702-4-4	1
259-202702-4-6	1
259-202702-6-6	1
259-202702-6-8	1
259-202702-8-6	1
259-202702-8-8	1
259-2039-4-4	1
259-2039-6-6	1
259-2039-8-8	1
259-2062-6-4	1
259-2071-4-4	1
259-2071-6-6	1
259-2081-12-4	1
259-2081-16-12	1
259-2081-16-8	1
259-2081-20-12	1
259-2081-20-16	1
259-2081-32-16	1
259-2081-32-20	1
259-2081-4-2	1
259-2081-6-4	1
259-2081-8-4	1
259-2081-8-6	EA
259-2082-12	0
259-2082-16	EA
259-2082-20	0
259-2082-4	1
259-2082-6	1
259-2083-12-12	1
259-2083-16-16	EA
259-2083-20-16	0
259-2083-20-20	EA
259-2083-24-24	0
259-2083-4-4	1
259-2083-6-4	1
259-2083-6-6	1
259-2083-8-8	1
259-2085-16-16	1
259-2085-6-6	1
259-2085-8-8	1
259-2087-4-4	1
259-2088-4-4	1
259-2088-6-6	1
259-2088-8-8	1
259-2089-16-16	1
259-2089-4-4	1
259-2089-6-6	1
259-2090-6-6	1
259-2091-4-4	1
259-2096-12	EA
259-2096-20	0

PART NUMBER	PKG QTY
259-2096-24	1
259-2096-4	1
259-2096-6	1
259-2096-8	1
259-2240-16-16	1
259-2240-4-4	1
259-900605-12	1
259-900605-16	1
259-900605-20	1
259-900605-24	1
259-900605-4	1
259-900605-8	1
26-160-06	2
26-166-04	2
26-166-06	2
26-166-08	2
26-167-04	2
26-167-06	2
26-167-08	2
26-168-04	2
26-168-05	2
26-168-06	2
26-168-08	2
26-260-06	2
26-266-04	2
26-266-06	2
26-266-08	2
26-267-04	2
26-267-06	2
26-268-04	2
26-268-06	2
26-268-08	2
26-368-06	2
26-368-08	2
26504P-102	1
26504P-102-CT	200
26504P-104	1
26504P-104-CT	200
26504P-106	1
26504P-106-CT	200
26504P-202	1
26504P-202-CT	25
26504P-204	1
26504P-204-CT	25
26504P-C00	1
26506P-102	1
26506P-102-CT	25
26506P-104	1
26506P-104-CT	25
26506P-106	1
26506P-106-CT	25
26506P-108	1
26506P-108-CT	25
26506P-202	1
26506P-202-CT	25
26506P-204	1
26506P-204-CT	25
26506P-206	1
26506P-206-CT	25
26506P-C00	1
26508P-104	1
26508P-104-CT	25
26508P-106	1
26508P-106-CT	25
26508P-108	1
26508P-108-CT	25
26508P-112	1
26508P-112-CT	100
26508P-204	1
26508P-204-CT	25
26508P-206	1
26508P-206-CT	25
26508P-208	1
26508P-208-CT	25
26508P-C00	1
26512P-108	1
26512P-108-CT	25
26512P-112	1
26512P-112-CT	25
26512P-C00	1
270	1
270-CT	EA
270Z	EA
28-186-04	2
28-186-06	2
28-186-08	2
28-186-12	2

PART NUMBER	PKG QTY
28-187-04	2
28-187-06	2
28-187-08	2
28-187-12	2
28-188-04	2
28-188-06	2
28-188-08	2
28-188-12	2
28-286-06	2
28-286-08	2
28-286-12	2
28-287-04	2
28-287-06	2
28-287-08	2
28-287-12	2
28-288-06	2
28-288-08	2
28-288-12	2
28-388-06	2
28-388-08	2
28-388-12	2
2807-3	1
2BHC16-FL	1
300-01551	1
300-01554	1
302X10	2
302X2	2
302X3	10
302X3-CT	1700
302X4	10
302X4-CT	1300
302X5	10
302X5-CT	1000
302X6	5
302X6-CT	500
302X8	2
303-24610-26100	1
303-25646-46100	1
305-26388	1
305-26388-00100	1
3081X12	1
3081X12X8	1
3081X16	1
3081X2	1
3081X4	1
3081X4X2	1
3081X6	5
3081X6X2	1
3081X6X4	1
3081X8	EA
3081X8X4	1
3081X8X6	1
30CT-03003	EA
30CT-04003	EA
30CT-05003	EA
30CT-06003	EA
30CT-08003	EA
30CT-10003	1
3121X12X4	1
3121X12X6	1
3121X12X8	1
3121X16X12	1
3121X16X8	1
3121X20X12	1
3121X20X16	1
3121X4X2	1
3121X6X2	1
3121X6X4	1
3121X8X2	1
3121X8X4	1
3121X8X6	1
3129X2	5
3129X4	5
3129X6	EA
3130-02003	EA
3130-03003	EA
3130-04003	EA
3130-05003	EA
3130-06003	EA
3130-08003	EA
3130-12008	EA
3130-16008	1
315-10465	1
315-23808-71	1
315-51045	1
315-51046	1
315-51047	1

PART NUMBER	PKG QTY
315-51096	1
315-51097	1
3150X2	10
3150X4	EA
3150X4Z	10
3150X6	10
3151X12	2
3151X2	10
3151X2-CT	EA
3151X2Z	10
3151X4	10
3151X4-CT	EA
3151X4Z	10
3151X6	10
3151X6-CT	EA
3151X6Z	5
3151X8	5
3151X8-CT	EA
3151X8Z	2
3152X1	10
3152X12	2
3152X12-CT	EA
3152X12Z	10
3152X2	10
3152X2-CT	EA
3152X2Z	10
3152X4	10
3152X4-CT	EA
3152X4Z	5
3152X6	5
3152X6-CT	EA
3152X6Z	5
3152X8	5
3152X8-CT	EA
3152X8Z	10
3153X1	10
3153X2	10
3153X4	10
3153X6	10
3153X8	10
3171X2	1
3171X4	1
3171X6	1
3171X8	1
32-132-A	1
32-132-C	1
32-632-C	1
32-F00-A	1
320	5
3200X12X6	1
3200X12X8	1
3200X12X8-CT	EA
3200X12X8Z	10
3200X2	10
3200X2-CT	EA
3200X2X1	50
3200X2Z	5
3200X4	5
3200X4-CT	450
3200X4X2	10
3200X4X2-CT	EA
3200X4X2Z	EA
3200X4Z	10
3200X6	10
3200X6-CT	325
3200X6X4	5
3200X6X4-CT	EA
3200X6X4Z	EA
3200X6Z	5
3200X8X6	5
3200X8X6-CT	EA
3200X8X6Z	EA
320Z	2
3220X12X6	EA
3220X12X6Z	2
3220X12X8	2
3220X12X8-CT	EA
3220X12X8Z	20
3220X4X2	20
3220X4X2-CT	EA
3220X4X2Z	10
3220X6X2	10
3220X6X2-CT	EA
3220X6X2Z	10
3220X6X4	10
3220X6X4-CT	EA
3220X6X4Z	5

PART NUMBER	PKG QTY
3220X8X2	5
3220X8X2-CT	EA
3220X8X2Z	10
3220X8X4	10
3220X8X4-CT	EA
3220X8X4Z	5
3220X8X6	5
3220X8X6-CT	EA
3220X8X6Z	1
3221X12X4	1
3221X12X8	1
3221X16X12	1
3221X16X8	1
3221X4X2	1
3221X6X4	1
3221X8X2	1
3221X8X4	1
3221X8X6	1
323-26954	1
3236-600	1
3236-662	1
325	5
3250X2	10
3250X4	5
3250X6	10
3250X8	EA
3270-0610-0100	EA
3270-0610-0500	EA
3270-0610-1000	1
3270-06104	1
3270-0610A	EA
3270-0612-0100	EA
3270-0612-0500	1
3270-06124	EA
3270-0613-0100	EA
3270-0613-0500	1
3270-06134	EA
3270-0614-0100	EA
3270-0614-0500	1
3270-06144	EA
3270-0615-0100	EA
3270-0615-0500	1
3270-06154	EA
3270-0616-0100	EA
3270-0616-0500	1
3270-06164	EA
3270-0810-0100	EA
3270-0810-0500	EA
3270-0810-1000	1
3270-08104	EA
3270-0812-0100	EA
3270-0812-0500	1
3270-08124	EA
3270-0813-0100	EA
3270-0813-0500	1
3270-08134	EA
3270-0814-0100	EA
3270-0814-0500	1
3270-08144	EA
3270-0815-0100	EA
3270-0815-0500	1
3270-08154	EA
3270-0816-0500	1
3270-08164	EA
3270-1010-0100	EA
3270-1010-0250	1
3270-10103	EA
3270-1012-0100	EA
3270-1012-0250	1
3270-10123	EA
3270-1013-0100	EA
3270-1013-0250	1
3270-10133	EA
3270-1014-0100	EA
3270-1014-0250	1
3270-10143	EA
3270-1015-0100	EA
3270-1015-0250	1
3270-10153	EA
3270-1016-0100	EA
3270-1016-0250	1
3270-10163	EA
3270-1210-0100	EA
3270-1210-0250	1
3270-12103	1
3270-12123	EA
3270-1213-0100	EA

PART NUMBER	PKG QTY
3270-1213-0250	1
3270-12133	EA
3270-1215-0100	EA
3270-1215-0250	1
3270-12153	1
3270-12163	1
32706E-606	1
32706E-666	1
32706E-686	1
32706E-A26	1
32706E-L66	1
32706E-S66	1
32706H-CA06	1
32706H-CA66	1
32706U-C00	1
32708E-608	1
32708E-668	1
32708E-688	1
32708E-A28	1
32708E-L68	1
32708E-S68	1
32708H-CA08	1
32708H-CA68	1
32708U-C00	1
32710E-610	1
32710E-670	1
32710E-690	1
32710E-S70	1
32712E-612	1
32712E-672	1
32712E-692	1
32712E-L72	1
32712E-S72	1
32X251	1
32X252	1
32X262	1
32X264	25
32X863	1
32Z-132	1
32Z-632	1
32Z-G32	1
32Z-G33	1
32Z-G54	1
32Z-G62	1
32Z-G92	1
32Z-G93	1
330	5
3300X1	25
3300X12	5
3300X12-CT	100
3300X2	10
3300X2-CT	1200
3300X4	10
3300X4-CT	425
3300X4X2	10
3300X4X2-CT	550
3300X6	5
3300X6-CT	325
3300X6X2	5
3300X6X4	5
3300X6X4-CT	300
3300X8	5
3300X8-CT	150
3300X8X6	5
3300X8X6-CT	150
3321X12	1
3321X16	1
3321X2	1
3321X4	1
3321X4X2	1
3321X6	1
3321X6X4	1
3321X8	1
3321X8X4	1
3321X8X6	1
3325X1	25
3325X12	2
3325X2	10
3325X2-CT	1600
3325X2X1	25
3325X4	10
3325X4-CT	650
3325X4X2	EA
3325X4Z	10
3325X6	10
3325X6-CT	400
3325X6X2	10

PART NUMBER	PKG QTY
3325X6X4	5
3325X8	10
3325X8-CT	EA
3325X8Z	1
3326X12	1
3326X2	10
3326X2-CT	EA
3326X2Z	10
3326X4	10
3326X4-CT	EA
3326X4Z	10
3326X6	10
3326X6-CT	EA
3326X6Z	5
3326X8	5
3326X8-CT	EA
3326X8Z	10
3327X2	10
3327X2-CT	1100
3327X4	5
3327X6	5
3328X12	5
3328X2	10
3328X4	EA
3328X4Z	5
3328X6	5
3328X8	2
3329X12	5
3329X2	5
3329X4	10
3329X6	2
3329X8	2
3330X2	5
3330X4	2
3330X6	5
3330X8	2
3331X2	2
3331X4	5
3331X6	5
3350X12	2
3350X12-CT	EA
3350X12Z	5
3350X2	5
3350X2-CT	EA
3350X2Z	5
3350X4	5
3350X4-CT	EA
3350X4Z	5
3350X6	5
3350X6-CT	EA
3350X6Z	5
3350X8	5
3350X8-CT	125
3.36E-98	2
3.36E-100	2
33603E-504	2
33603E-604	2
33603E-605	2
33603E-664	5
33603E-684	2
33603E-J04	2
33603E-P04	2
3.36E-50	2
3.36E-98	2
3.36E-100	2
3.36E-102	2
3.36E-200	2
33604E-406	2
33604E-504	2
33604E-505	2
33604E-604	2
33604E-605	2
33604E-606	2
33604E-645	2
33604E-664	2
33604E-665	2
33604E-685	2
33604E-A24	2
33604E-J04	2
33604E-P05	2
33604E-P06	2
33604E-S64	2
3.36E-52	2
3.36E-100	2
3.36E-102	2
3.36E-104	2
3.36E-302	2

PART NUMBER	PKG QTY
33606E-406	2
33606E-506	2
33606E-508	2
33606E-606	2
33606E-608	2
33606E-646	2
33606E-648	2
33606E-666	2
33606E-668	2
33606E-686	2
33606E-688	2
33606E-A26	2
33606E-J06	2
33606E-M06	2
33606E-P06	2
33606E-P08	2
33606E-S66	2
3.36E-54	2
3.36E-102	2
3.36E-104	2
3.36E-204	2
3.36E-304	2
33608E-508	2
33608E-510	2
33608E-512	2
33608E-608	2
33608E-610	2
33608E-650	2
33608E-668	2
33608E-670	2
33608E-688	5
33608E-690	2
33608E-A28	2
33608E-J08	2
33608E-M08	1
33608E-P08	2
33608E-P10	2
33608E-S68	2
3.36E-58	2
3.36E-108	2
33612E-512	2
33612E-612	2
33612E-652	2
33612E-670	2
33612E-672	1
33612E-692	2
33612E-A32	2
33612E-M12	1
33612E-S72	1
3.36E-112	2
33616E-616	2
33616E-676	2
3371X12	1
3371X16	1
3371X2	1
3371X4	1
3371X6	1
3371X8	1
33806	10
33806-A	10
33806-B	5
33806-C	10
33806-D	5
33806-E	1
33806B-Y06	10
33806B-Y24	5
33806B-Y26	10
33806B-Y28	5
33806B-Y34	5
33806B-Y36	10
33806B-Y38	5
33806B-Y76	10
33806B-Y84	5
33806B-Y86	5
33806C-C00	1
33806C-Y76	1
33806P-104	5
33806P-106	5
33806P-108	5
33806P-406	5
33806P-C00	1
33806P-J06	5
33806P-Y66	1
33806P-Y68	1
33806P-Y76	10
33808-A	10
33808-B	5

B29

PART NUMBER	PKG QTY
33808-C	2
33808-D	2
33808B-Y08	5
33808B-Y26	5
33808B-Y28	5
33808B-Y36	5
33808B-Y38	5
33808B-Y78	2
33808B-Y86	2
33808C-C00	1
33808C-Y76	1
33808P-106	5
33808P-108	5
33808P-408	10
33808P-C00	1
33808P-Y68	5
33808P-Y76	5
33808P-Y78	5
3400X1	50
3400X12	2
3400X12-CT	EA
3400X12Z	10
3400X2	10
3400X2-CT	800
3400X2W	25
3400X2W-CT	EA
3400X2WZ	EA
3400X2Z	10
3400X4	10
3400X4-CT	350
3400X4W	25
3400X4W-CT	EA
3400X4WZ	10
3400X4X2	EA
3400X4X2Z	EA
3400X4Z	5
3400X6	5
3400X6-CT	EA
3400X6Z	5
3400X8	5
3400X8-CT	EA
3400X8Z	1
341-20581-26100	1
341-20586-26100	1
341-36544-26100	1
341-40606	1
341-40606-26100	EA
3421X12	1
3421X16	1
3421X2	1
3421X4	1
3421X6	1
3421X8	1
3440-04003	EA
3440-06003	EA
3440-08003	EA
3440-12003	EA
3440-16003	EA
34701	10
34702	10
34703	10
34704	10
34705	10
34706	10
3.47E-302	1
34706E-386	1
34706E-406	1
34706E-408	1
34706E-486	1
34706E-756	1
34706E-F56	5
34706E-W06	1
34706E-W08	1
34706E-W26	1
34706E-W46	1
34706E-W66	1
34706E-Z06	1
34706E-Z08	1
34706E-Z26	1
34706E-Z46	1
34706E-Z66	1
34706E-Z86	1
34707	10
3.47E-304	1
34708E-408	1
34708E-488	1
34708E-758	1

PART NUMBER	PKG QTY
34708E-F58	5
34708E-W08	1
34708E-W48	1
34708E-Z08	1
34708E-Z28	1
34708E-Z48	1
34708E-Z68	1
34708E-Z88	1
3.47E-306	1
34710E-408	1
34710E-410	1
34710E-490	1
34710E-758	1
34710E-760	1
34710E-F60	1
34710E-W08	1
34710E-W10	5
34710E-W50	1
34710E-X10	1
34710E-Z10	1
34710E-Z30	1
34710E-Z48	1
34710E-Z50	1
34710E-Z90	1
34711	5
3.47E-308	1
34712E-412	1
34712E-760	1
34712E-762	1
34712E-W12	1
34712E-W52	1
34712E-X12	1
34712E-Z12	1
34712E-Z52	1
34712E-Z72	1
34712E-Z92	1
34713	10
34715	5
34717	5
34722	5
34731	5
34741	5
34742	10
34743	10
34744	10
34771	5
34772	10
34773	10
34774	10
34775	10
34BA-06007	EA
34PW-04003	EA
34PW-06003	EA
34PW-08003	EA
34PW-12003	EA
34PW-16003	2
3500X12	2
3500X12-CT	50
3500X2	10
3500X2-CT	600
3500X4	10
3500X4-CT	300
3500X6	10
3500X8	5
3500X8-CT	100
3521X12	1
3521X2	1
3521X4	1
3521X6	1
3521X8	1
352X10	5
352X2	5
352X3	EA
352X3Z	10
352X4	EA
352X4Z	10
352X5	EA
352X5X4	5
352X5Z	5
352X6	EA
352X6X2	2
352X6Z	1
352X8	2
3541X2	1
3541X4	1
3541X6	EA
3580-04004	EA

PART NUMBER	PKG QTY
3580-06004	EA
3580-08001	EA
3580-12006	1
3600700	1
3600X12	1
3600X2	5
3600X2-CT	EA
3600X2Z	5
3600X4	5
3600X4-CT	EA
3600X4Z	10
3600X6	10
3600X6-CT	EA
3600X6Z	5
3600X8	5
3600X8-CT	EA
3600X8Z	1
3617400	EA
3621X4	1
3630-03005	EA
3630-04005	EA
3630-04015	EA
3630-04035	EA
3630-04055	EA
3630-04075	EA
3630-06005	EA
3630-06015	EA
3630-06035	EA
3630-06055	2
3700X1	25
3700X12	2
3700X2	10
3700X2-CT	475
3700X4	5
3700X4-CT	200
3700X6	5
3700X6-CT	130
3700X8	5
3700X8-CT	60
3721X12	1
3721X16	1
3721X2	1
3721X4	1
3721X6	1
3721X8	1
3750X12	2
3750X12-CT	EA
3750X12Z	5
3750X2	5
3750X2-CT	EA
3750X2Z	5
3750X4	5
3750X4-CT	EA
3750X4Z	10
3750X6	10
3750X6-CT	EA
3750X6Z	5
3750X8	5
3750X8-CT	EA
3750X8Z	EA
3770-20C33	EA
3770-20C43	EA
3770-20C53	EA
3770-20C63	EA
3770-27A33	EA
3770-27A53	EA
3770-27A63	1
3771X2	1
3771X4	1
3771X6	EA
3771X8	1
3777-51	1
37AL-03003	EA
37AL-03005	EA
37AL-04003	EA
37AL-04005	EA
37AL-05003	EA
37AL-05005	EA
37AL-06003	EA
37AL-06005	EA
37AL-08003	EA
37AL-08007	1
38-190627-12-12	1
38-190627-16-16	1
38-190627-2-4	1
38-190627-20-20	1
38-190627-4-4	1

PART NUMBER	PKG QTY
38-190627-4-5	1
38-190627-4-6	1
38-190627-6-6	1
38-190627-6-8	1
38-190627-8-10	1
38-191074-10	1
38-191074-12	1
38-191074-8	EA
3800-02003	EA
3800-03003	EA
3800-04003	EA
3800-06003	EA
3800-08003	1
38097-01800	1
38097-02000	1
38097-02400	1
38097-02600	1
38097-02800	1
38097-03000	1
38097-03200	1
38097-03400	1
38097-04000	1
38097-04200	1
38097-06000	1
38097-07200	1
38166-01812	1
38166-02137	1
38166-02200	1
38166-02412	1
38166-02487	1
38166-02600	1
38166-02762	1
38166-02837	1
38166-02912	1
38166-03012	1
38166-03200	1
38166-03400	1
38166-03437	1
38166-03612	1
38166-03812	1
38166-04000	1
38166-04112	1
38166-04200	1
38166-04800	1
38166-06000	1
38166-07200	1
38353-01500	1
38353-01600	1
38353-01800	1
38353-01900	1
38353-02037	1
38353-02200	1
38353-02300	1
38353-02400	1
38353-02600	1
38353-02837	1
38353-03000	1
38353-03200	1
38353-03437	1
38353-03600	1
38353-04112	1
38353-04400	1
38353-04600	1
38353-04800	1
38353-06000	1
38353-07200	1
3950X12	2
3950X2	10
3950X4	10
3950X4-CT	165
3950X6	2
3950X8	2
3980-71520	1
3980-71620	1
3980-71820	1
3980-71920	1
3980-72020	1
3980-72120	1
3980-72220	1
3980-77320	1
3980-77520	1
3980-77620	1
3980-82920	1
3980-83020	1
3980-83120	1
3980-83220	1
3981-19120	1

PART NUMBER	PKG QTY
3981-30220	1
3981-30320	1
3981-30420	1
3981-30520	1
3981-33220	1
3983-24413	1
3983-24605	1
3983-24802	1
3983-54416	1
3983-54417	1
3983-54615	1
3983-54806	1
3983-GHS01	1
3983-GHS02	1
39X10	10
39X12	10
39X2	10
39X3	10
39X4	25
39X5	10
39X6	25
39X8	EA
3E80-04003	EA
3E80-06003	EA
3E80-08003	EA
3R30-03003	EA
3R30-04003	EA
3R30-06003	EA
3R30-08003	EA
3R80-03003	EA
3R80-04003	EA
3R80-06003	EA
3R80-08003	EA
3R80-12008	EA
3R80-16008	1
3SCE-0303304-166	EA
3V10-03003	EA
3VE0-06003	EA
40-0304-00	EA
40-0406-00	EA
40-0608-00	EA
40-0810-00	EA
401-6B	0
402X10	2
402X10X6	2
402X12	2
402X12X8	1
402X14	1
402X16	1
402X2	5
402X3	10
402X3-CT	1400
402X4	10
402X4-CT	1000
402X4X4	5
402X4X4-CT	EA
402X4Z	10
402X5	10
402X5-CT	800
402X5X4	10
402X5X4-CT	EA
402X5X6	25
402X5Z	10
402X6	10
402X6-CT	350
402X6X2	5
402X6X6	EA
402X6Z	5
402X7	2
402X8	5
402X8X4	2
402X8X8	EA
402X8Z	5
40X10	5
40X12	5
40X2	10
40X3	10
40X4	20
40X5	10
40X6	20
40X8	20
4105X10	1
4105X12	1
4105X16	1
4105X20	2
4105X24	1
4105X4	1

PART NUMBER	PKG QTY
4105X6	1
4105X8	EA
411-12S	0
411-16B	1
411-20B	1
411-32B	EA
411-6B	EA
411-6S	0
41157X10	2
41157X12	2
41157X4	5
41157X6	5
41157X8	5
4129X10	5
4129X12	5
4129X16	2
4129X20	2
4129X24	1
4129X4	10
4129X6	10
4129X8	5
4165X10	1
4165X12	1
4165X16	1
4165X20	2
4165X24	1
4165X4	1
4165X6	1
4165X8	1
41X10	5
41X3	10
41X4	10
41X5	10
41X6	10
41X8	EA
4202-04504	EA
4202-06384	EA
4202-08504	EA
4202-12624	1
4205X10	1
4205X12	1
4205X12X16	1
4205X12X8	1
4205X16	1
4205X20	2
4205X6X6	1
4205X8	1
4205X8X8	EA
4207-12754	EA
4207-16754	EA
4212-21603	EA
4212-23103	EA
4212-32503	EA
4212-34603	EA
4212-43503	EA
4212-44003	EA
4212-46203	EA
4212-54003	EA
4212-65003	EA
4212-69303	EA
4212-81243	EA
4212-86203	1
4213X10	1
4213X12	1
4213X16	1
4213X4	1
4213X6	1
4213X8	EA
4225-21603	EA
4225-23103	EA
4225-32503	EA
4225-34603	EA
4225-43503	EA
4225-44003	EA
4225-46203	EA
4225-54003	EA
4225-65003	EA
4225-69303	EA
4225-81243	EA
4225-86203	5
4229X10	5
4229X12	5
4229X16	2
4229X20	1
4229X24	1
4229X4	10
4229X6	10

PART NUMBER	PKG QTY
4229X8	EA
4245-0220-0100	EA
4245-0220-1000	1
4245-02207	1
4245-02227	1
4245-02257	1
4245-02267	EA
4245-0250-0100	EA
4245-0250-1000	1
4245-02506	EA
4245-0250A	1
4245-02526	1
4245-02546	1
4245-02556	1
4245-02566	EA
4245-0330-0100	1
4245-03306	EA
4245-0330A	1
4245-03326	1
4245-03356	EA
4245-0410-0100	EA
4245-0410-0500	EA
4245-0410-1000	1
4245-04106	EA
4245-0410A	EA
4245-0412-0100	EA
4245-0412-0500	EA
4245-0412-1000	1
4245-04126	EA
4245-0413-0100	EA
4245-0413-0500	EA
4245-0413-1000	1
4245-04136	EA
4245-0414-0100	EA
4245-0414-0500	EA
4245-0414-1000	1
4245-04146	EA
4245-0415-0100	EA
4245-0415-0500	EA
4245-0415-1000	1
4245-04156	EA
4245-0416-0100	EA
4245-0416-0500	EA
4245-0416-1000	1
4245-04166	EA
4245-041C-0100	EA
4245-041C-0500	EA
4245-041C-1000	EA
4245-041F-0100	EA
4245-041F-0500	EA
4245-041F-1000	EA
4245-0520-0100	EA
4245-0520-0500	EA
4245-0520-1000	1
4245-05204	EA
4245-0520A	1
4245-05224	1
4245-05244	1
4245-05254	1
4245-05264	1
42504N-102	1
42504N-104	2
42504N-504	1
42504N-505	1
42504N-506	1
42504N-604	5
42504N-605	1
42504N-606	1
42504N-644	1
42504N-664	1
42504N-684	1
42506N-104	1
42506N-106	5
42506N-406	1
42506N-506	1
42506N-508	1
42506N-606	5
42506N-608	1
42506N-646	1
42506N-666	1
42506N-686	1
42508N-106	1
42508N-108	5
42508N-112	1
42508N-258	1
42508N-508	1
42508N-510	1

PART NUMBER	PKG QTY
42508N-608	5
42508N-610	5
42508N-648	1
42508N-668	1
42508N-670	1
42508N-688	1
42508N-690	1
42512N-112	5
42512N-262	1
42512N-412	1
42512N-512	1
42512N-610	1
42512N-612	5
42512N-614	1
42512N-652	1
42512N-672	1
42512N-692	1
42512N-G12	1
42512N-G42	1
42512N-G72	1
42512N-G76	1
42516N-116	1
42516N-516	1
42516N-616	2
42516N-676	1
42516N-696	1
42516N-G16	1
42516N-G46	1
42516N-G76	1
42520N-120	1
42520N-620	1
42520N-G20	1
42520N-G50	1
42520N-G80	1
42520N-G84	1
42524N-124	1
42524N-624	1
42532N-132	1
42532N-632	1
4294-061F2	1
4294-07102	1
4294-08102	1
4294-081D2	1
4294-081F2	1
4297-081F2	1
4297-10102	1
4297-101F2	1
42X10	5
42X12	5
42X2	5
42X3	5
42X4	5
42X5	5
42X6	5
42X8	5
43006U-06S	1
43006U-08S	1
43006U-104	1
43006U-106	1
43006U-108	1
43006U-404	1
43006U-406	1
43006U-506	1
43006U-508	1
43006U-604	1
43006U-606	1
43006U-608	1
43006U-666	1
43006U-686	1
43006U-688	1
43006U-A26	1
43006U-A28	1
43006U-A66	1
43006U-A68	1
43006U-E66	1
43006U-E68	1
43006U-L66	1
43006U-L68	1
43006U-P06	1
43006U-P08	1
43006U-S66	1
43006U-S68	EA
43006Z-106	EA
43006Z-506	EA
43006Z-508	EA
43006Z-606	EA
43006Z-608	EA

PART NUMBER	PKG QTY
43006Z-646	EA
43006Z-666	EA
43006Z-686	EA
43006Z-A26	EA
43006Z-A66	EA
43006Z-L66	EA
43006Z-S66	1
43008E-08S	1
4.30E-104	2
4.30E-108	1
43008E-22K	1
43008E-358	1
43008E-508	1
43008E-510	2
43008E-606	1
43008E-608	2
43008E-610	2
43008E-612	2
43008E-648L36	1
43008E-648L45	1
43008E-650	1
43008E-668	2
43008E-670	2
43008E-688	2
43008E-690	1
43008E-A28	2
43008E-A30	2
43008E-A68	1
43008E-A70	1
43008E-C60	1
43008E-D08	2
43008E-D12	2
43008E-D41	2
43008E-D42	2
43008E-D71	2
43008E-D72	2
43008E-E68	2
43008E-G08	1
43008E-G12	1
43008E-G41	1
43008E-G42	1
43008E-G46	1
43008E-G71	2
43008E-G71L32	1
43008E-G72	2
43008E-G76	1
43008E-H01	1
43008E-H02	1
43008E-H21	1
43008E-H22	1
43008E-H51	1
43008E-H52	1
43008E-H61	1
43008E-H62	1
43008E-H63	1
43008E-H91	1
43008E-L68	2
43008E-L70	2
43008E-S68	2
43008E-S70	1
43008U-108	1
43008U-108-CT	75
43008U-112	1
43008U-22K	1
43008U-358	1
43008U-508	1
43008U-510	2
43008U-606	1
43008U-608	1
43008U-608-CT	75
43008U-610	2
43008U-610-CT	80
43008U-612	1
43008U-612-CT	70
43008U-648L36	1
43008U-648L45	1
43008U-650	1
43008U-668	2
43008U-668-CT	64
43008U-670	1
43008U-688	1
43008U-688-CT	72
43008U-690	1
43008U-A28	2
43008U-A28-CT	58
43008U-A30	1
43008U-A68	1

PART NUMBER	PKG QTY
43008U-A70	1
43008U-C60	1
43008U-D08	1
43008U-D12	1
43008U-D41	1
43008U-D42	1
43008U-D71	1
43008U-D72	1
43008U-E68	1
43008U-G08	1
43008U-G12	1
43008U-G41	1
43008U-G42	1
43008U-G46	1
43008U-G71	1
43008U-G71L32	1
43008U-G72	1
43008U-G76	1
43008U-H01	1
43008U-H02	1
43008U-H21	1
43008U-H22	1
43008U-H51	1
43008U-H52	1
43008U-H61	1
43008U-H62	1
43008U-H63	1
43008U-H91	1
43008U-L68	2
43008U-L70	1
43008U-S68	2
43008U-S68-CT	80
43008U-S70	EA
43008Z-108	EA
43008Z-112	EA
43008Z-508	EA
43008Z-510	EA
43008Z-608	EA
43008Z-610	EA
43008Z-612	EA
43008Z-648L36	EA
43008Z-668	EA
43008Z-670	EA
43008Z-688	EA
43008Z-690	EA
43008Z-A28	EA
43008Z-A30	EA
43008Z-A68	EA
43008Z-G08	EA
43008Z-G12	EA
43008Z-G41	EA
43008Z-G42	EA
43008Z-G71	EA
43008Z-G72	EA
43008Z-L68	EA
43008Z-L70	EA
43008Z-S68	EA
43008Z-S70	1
43010U-108	1
43010U-112	1
43010U-510	1
43010U-512	1
43010U-610	1
43010U-612	1
43010U-670	1
43010U-A30	1
43010U-A32	1
43010U-G12	1
43010U-G42	1
43010U-G72	1
43010U-L70	1
43010U-P12	1
43010U-S70	1
43010U-S72	EA
43010Z-510	EA
43010Z-610	EA
43010Z-612	EA
43010Z-670	EA
43010Z-672	EA
43010Z-70C	EA
43010Z-A30	EA
43010Z-A32	EA
43010Z-A70	EA
43010Z-G42	EA
43010Z-G72	EA
43010Z-G99	EA
43010Z-L70	EA

PART NUMBER	PKG QTY
43010Z-S70	EA
43010Z-S72	2
4.30E-108	2
4.30E-112	1
43012E-12S	1
43012E-22C	2
43012E-30K	1
43012E-362	1
43012E-512	2
43012E-514	2
43012E-52P	2
43012E-612	2
43012E-614	2
43012E-616	2
43012E-652	2
43012E-672	2
43012E-692	2
43012E-75C	2
43012E-82P	2
43012E-A30	2
43012E-A32	2
43012E-A72	1
43012E-C62	1
43012E-D12	2
43012E-D16	2
43012E-D42	2
43012E-D46	2
43012E-D72	2
43012E-D76	2
43012E-E72	1
43012E-G12	2
43012E-G16	2
43012E-G20	1
43012E-G42	2
43012E-G46	1
43012E-G72	2
43012E-G72L37	1
43012E-G72L50	1
43012E-G76	2
43012E-G76L31	1
43012E-G80	1
43012E-H02	1
43012E-H03	1
43012E-H22	1
43012E-H52	1
43012E-H53	1
43012E-H62	1
43012E-H63	1
43012E-H64	1
43012E-H72	1
43012E-H73	1
43012E-H92	1
43012E-L72	2
43012E-P62	2
43012E-S70	2
43012E-S72	2
43012E-S76	2
43012U-112	2
43012U-112-CT	40
43012U-116	2
43012U-12S	1
43012U-22C	1
43012U-30K	1
43012U-362	1
43012U-512	2
43012U-512-CT	40
43012U-514	1
43012U-516	2
43012U-52P	EA
43012U-610	5
43012U-612	5
43012U-612-CT	40
43012U-614	1
43012U-616	2
43012U-616-CT	48
43012U-652	2
43012U-672	2
43012U-672-CT	27
43012U-692	2
43012U-70C	1
43012U-75C	1
43012U-82P	1
43012U-A30	1
43012U-A32	2
43012U-A32-CT	27
43012U-A72	1

PART NUMBER	PKG QTY
43012U-C62	1
43012U-D12	2
43012U-D16	1
43012U-D42	1
43012U-D46	1
43012U-D72	2
43012U-D76	1
43012U-E72	2
43012U-G12	1
43012U-G12-CT	40
43012U-G16	2
43012U-G20	1
43012U-G42	1
43012U-G42-CT	36
43012U-G46	2
43012U-G72	2
43012U-G72-CT	20
43012U-G72L37	1
43012U-G72L50	1
43012U-G76	2
43012U-G76-CT	24
43012U-G76L31	1
43012U-G80	1
43012U-H02	1
43012U-H03	1
43012U-H22	1
43012U-H23	1
43012U-H52	1
43012U-H53	1
43012U-H62	1
43012U-H63	1
43012U-H64	1
43012U-H72	1
43012U-H73	1
43012U-H92	1
43012U-L72	2
43012U-P62	1
43012U-S70	2
43012U-S72	2
43012U-S72-CT	42
43012U-S76	EA
43012Z-112	EA
43012Z-116	EA
43012Z-512	EA
43012Z-516	EA
43012Z-610	EA
43012Z-612	EA
43012Z-614	EA
43012Z-616	EA
43012Z-652	EA
43012Z-672	EA
43012Z-692	EA
43012Z-A32	EA
43012Z-A72	EA
43012Z-D12	EA
43012Z-D42	EA
43012Z-G12	EA
43012Z-G16	EA
43012Z-G20	EA
43012Z-G42	EA
43012Z-G46	EA
43012Z-G72	EA
43012Z-G76	EA
43012Z-G80	EA
43012Z-H02	EA
43012Z-H03	EA
43012Z-H22	EA
43012Z-H52	EA
43012Z-H53	EA
43012Z-H62	EA
43012Z-H63	EA
43012Z-L72	EA
43012Z-S70	EA
43012Z-S72	EA
43012Z-S76	1
4.30E-112	2
4.30E-116	1
43016E-16S	1
43016E-33K	1
43016E-366	1
43016E-516	2
43016E-56P	2
43016E-616	2
43016E-620	2
43016E-656L33	1
43016E-656L56	1
43016E-676	2

PART NUMBER	PKG QTY
43016E-696	2
43016E-86P	2
43016E-A36	2
43016E-A76	1
43016E-C66	1
43016E-D16	1
43016E-D20	1
43016E-D46	1
43016E-D50	1
43016E-D76	2
43016E-D80	1
43016E-E76	1
43016E-G16	2
43016E-G20	2
43016E-G24	1
43016E-G46	2
43016E-G50	1
43016E-G76	2
43016E-G76L21	1
43016E-G76L46	1
43016E-G80	2
43016E-G80L46	1
43016E-G84	1
43016E-H03	1
43016E-H04	1
43016E-H23	1
43016E-H24	1
43016E-H53	1
43016E-H54	1
43016E-H63	1
43016E-H64	1
43016E-H83	1
43016E-L76	2
43016E-P66	2
43016E-S76	2
43016E-S80	1
43016U-112	1
43016U-116	2
43016U-116-CT	35
43016U-120	1
43016U-16S	1
43016U-33K	1
43016U-366	1
43016U-516	1
43016U-516-CT	35
43016U-520	1
43016U-56P	2
43016U-612	2
43016U-616	1
43016U-616-CT	35
43016U-620	1
43016U-656L33	1
43016U-656L56	1
43016U-676	1
43016U-676-CT	21
43016U-676L22	1
43016U-696	1
43016U-696-CT	24
43016U-80C	1
43016U-86P	2
43016U-A36	1
43016U-A36-CT	21
43016U-A76	2
43016U-C66	1
43016U-D16	1
43016U-D20	1
43016U-D46	1
43016U-D50	1
43016U-D76	1
43016U-D80	1
43016U-E76	1
43016U-G16	1
43016U-G16-CT	35
43016U-G20	1
43016U-G24	1
43016U-G46	1
43016U-G46-CT	27
43016U-G50	1
43016U-G76	1
43016U-G76-CT	1
43016U-G76L21	1
43016U-G76L46	1
43016U-G80	1
43016U-G80L46	1
43016U-G84	1
43016U-H03	1
43016U-H04	1

PART NUMBER	PKG QTY
43016U-H23	1
43016U-H24	1
43016U-H53	1
43016U-H54	1
43016U-H63	1
43016U-H64	1
43016U-H83	1
43016U-J16	1
43016U-L76	1
43016U-P16	1
43016U-P66	1
43016U-S76	1
43016U-S76-CT	30
43016U-S80	EA
43016Z-112	EA
43016Z-116	EA
43016Z-120	EA
43016Z-516	EA
43016Z-612	EA
43016Z-616	EA
43016Z-620	EA
43016Z-656L56	EA
43016Z-676	EA
43016Z-696	EA
43016Z-80C	EA
43016Z-A36	EA
43016Z-A76	EA
43016Z-D16	EA
43016Z-D20	EA
43016Z-D46	EA
43016Z-D50	EA
43016Z-G16	EA
43016Z-G20	EA
43016Z-G24	EA
43016Z-G46	EA
43016Z-G50	EA
43016Z-G76	EA
43016Z-G80	EA
43016Z-H03	EA
43016Z-H04	EA
43016Z-H23	EA
43016Z-H24	EA
43016Z-H53	EA
43016Z-H63	EA
43016Z-L76	EA
43016Z-S76	EA
43016Z-S80	1
4.30E-116	1
43020E-20S	1
43020E-36K	1
43020E-370	1
43020E-520	1
43020E-620	1
43020E-624	1
43020E-677	1
43020E-80C	2
43020E-A40	1
43020E-A44	2
43020E-A80	1
43020E-D20	1
43020E-D24	1
43020E-D50	1
43020E-D54	2
43020E-D80	1
43020E-D84	1
43020E-E80	1
43020E-G20	1
43020E-G24	1
43020E-G32	1
43020E-G50	1
43020E-G54	1
43020E-G80	1
43020E-G80L31	1
43020E-G80L40	1
43020E-G80L51	1
43020E-G80L66	1
43020E-G84	1
43020E-G84L46	1
43020E-H04	1
43020E-H05	1
43020E-H24	1
43020E-H25	1
43020E-H54	1
43020E-H55	1
43020E-H64	1
43020E-H65	1
43020E-H84	1

PART NUMBER	PKG QTY
43020E-H85	1
43020E-L80	2
43020E-P67	2
43020E-S80	1
43020U-120	1
43020U-120-CT	14
43020U-20S	1
43020U-36K	1
43020U-370	1
43020U-520	1
43020U-520-CT	14
43020U-620	1
43020U-620-CT	14
43020U-624	1
43020U-677	1
43020U-677-CT	12
43020U-80C	1
43020U-A40	1
43020U-A44	1
43020U-A80	1
43020U-A84	1
43020U-D20	1
43020U-D24	1
43020U-D50	1
43020U-D54	1
43020U-D80	1
43020U-D84	1
43020U-E80	1
43020U-G20	1
43020U-G20-CT	14
43020U-G24	1
43020U-G24L64	1
43020U-G32	1
43020U-G50	1
43020U-G50-CT	12
43020U-G54	1
43020U-G80	1
43020U-G80-CT	8
43020U-G80L31	1
43020U-G80L40	1
43020U-G80L51	1
43020U-G80L66	1
43020U-G84	1
43020U-G84L46	1
43020U-H04	1
43020U-H05	1
43020U-H24	1
43020U-H25	1
43020U-H54	1
43020U-H55	1
43020U-H64	1
43020U-H65	1
43020U-H84	1
43020U-H85	1
43020U-L80	1
43020U-P67	1
43020U-S80	EA
43020Z-120	EA
43020Z-520	EA
43020Z-620	EA
43020Z-624	EA
43020Z-677	EA
43020Z-697	EA
43020Z-A40	EA
43020Z-D20	EA
43020Z-D50	EA
43020Z-G16	EA
43020Z-G20	EA
43020Z-G24	EA
43020Z-G50	EA
43020Z-G54	EA
43020Z-G76	EA
43020Z-G80	EA
43020Z-G84	EA
43020Z-H04	EA
43020Z-H05	EA
43020Z-H24	EA
43020Z-H25	EA
43020Z-H54	EA
43020Z-H64	EA
43020Z-H65	EA
43020Z-L80	EA
43020Z-S80	1
4.30E-120	2
43024E-24S	1
43024E-524	1
43024E-624	1
43024E-A44	2

PART NUMBER	PKG QTY
43024E-A84	2
43024E-D24	1
43024E-D54	1
43024E-D84	1
43024E-D92	1
43024E-G24	1
43024E-G32	1
43024E-G54	1
43024E-G62	1
43024E-G84	1
43024E-G84L58	1
43024E-G84L67	1
43024E-G92	1
43024E-G92L45	1
43024E-G92L67	1
43024E-H05	1
43024E-H06	1
43024E-H25	1
43024E-H26	1
43024E-H55	1
43024E-H56	1
43024E-H65	1
43024E-H66	1
43024E-H85	1
43024E-L84	2
43024E-S84	2
43024U-124	1
43024U-124-CT	16
43024U-524	1
43024U-624	1
43024U-624-CT	14
43024U-678	1
43024U-A44	1
43024U-A84	1
43024U-D24	1
43024U-D54	1
43024U-D84	1
43024U-D92	1
43024U-G24	1
43024U-G24-CT	12
43024U-G32	1
43024U-G54	1
43024U-G62	1
43024U-G84	1
43024U-G84-CT	8
43024U-G84L58	1
43024U-G84L67	1
43024U-G92	1
43024U-G92L45	1
43024U-G92L67	1
43024U-H05	1
43024U-H06	1
43024U-H25	1
43024U-H26	1
43024U-H55	1
43024U-H56	1
43024U-H65	1
43024U-H66	1
43024U-H85	1
43024U-L84	1
43024U-S84	EA
43024Z-124	EA
43024Z-624	EA
43024Z-678	EA
43024Z-D54	EA
43024Z-G24	EA
43024Z-G32	EA
43024Z-G54	EA
43024Z-G62	EA
43024Z-G84	EA
43024Z-G92	EA
43024Z-H05	EA
43024Z-H25	EA
43024Z-H55	EA
43024Z-H65	EA
43024Z-S84	1
4.30E-128	1
43032E-532	1
43032E-632	1
43032E-D32	1
43032E-D62	1
43032E-D92	1
43032E-G24	1
43032E-G32	1
43032E-G62	1
43032E-G84	1
43032E-G92	1

PART NUMBER	PKG QTY
43032E-G92L65	1
43032E-G92L80	1
43032E-H06	1
43032E-H26	1
43032E-H56	1
43032E-H66	1
43032E-H86	1
43032U-132	1
43032U-132-CT	8
43032U-532	1
43032U-632	1
43032U-632-CT	8
43032U-D32	1
43032U-D62	1
43032U-D92	1
43032U-G24	1
43032U-G32	1
43032U-G62	1
43032U-G84	1
43032U-G92	1
43032U-G92L65	1
43032U-G92L80	1
43032U-H06	1
43032U-H26	1
43032U-H56	1
43032U-H66	1
43032U-H86	EA
43032Z-132	EA
43032Z-632	EA
43032Z-G32	EA
43032Z-G62	EA
43032Z-G92	EA
43032Z-H06	EA
43032Z-H26	EA
43032Z-H56	1
4305X10	1
4305X10X8	1
4305X12	1
4305X12X10	1
4305X12X8	1
4305X16	1
4305X16X12	1
4305X20	1
4305X24	1
4305X4	1
4305X6	5
4305X6X4	1
4305X8	1
4305X8X6	1
4315X10	1
4315X12	1
4315X12X16	1
4315X16	1
4315X16X12	1
4315X16X20	1
4315X20	2
4315X20X16	1
4315X24	1
4315X4	1
4315X4X6	5
4315X6	5
4315X6X10	1
4315X6X4	1
4315X6X8	1
4315X8	5
4315X8X10	1
4315X8X12	1
4315X8X6	1
4316X12	1
4316X16	1
4316X20	1
4316X24	1
4316X6	1
4316X8	1
431X4	2
4325X12	1
4325X16	1
4325X20	1
4325X24	1
4325X6	1
4325X8	1
4355X12	2
4355X4	2
4355X6	2
4355X8	2
43604N-104	5
43604N-504	2

PART NUMBER	PKG QTY
43604N-505	2
43604N-604	5
43604N-605	2
43604N-606	2
43604N-664	2
43604N-684	2
43606N-104	5
43606N-106	5
43606N-406	5
43606N-506	2
43606N-508	2
43606N-606	5
43606N-608	2
43606N-666	2
43608N-106	2
43608N-108	5
43608N-508	2
43608N-510	1
43608N-608	5
43608N-610	1
43608N-668	1
43612N-112	1
43612N-612	1
43616N-116	1
43616N-616	1
4365X10	10
4365X10X12	1
4365X10X8	5
4365X12	5
4365X12X10	1
4365X12X16	2
4365X16	2
4365X16X12	2
4365X16X20	1
4365X4	10
4365X4X6	10
4365X6	10
4365X6X4	10
4365X6X8	10
4365X8	10
4365X8X10	5
4365X8X6	10
4375X4	2
4375X6	2
4375X8	2
43X4	5
43X5	1
43X6	5
4401-44400	1
4401-48400	1
4401-51212	1
4401-54800	1
4401-58120	1
4401-58800	1
4401-78120	1
4401-78800	1
4405X10	2
4405X12	2
4405X16	2
4405X4	2
4405X6	2
4405X8	2
44X10	5
44X3	2
44X4	5
44X5	5
44X6	5
44X8	EA
4504-00000	EA
4504-01000	1
4505X10	1
4505X12	2
4505X16	2
4505X20	2
4505X24	2
4505X4	1
4505X6	1
4505X8	1
4506X10	2
4506X12	2
4506X16	2
4506X4	2
4506X6	2
4506X8	EA
4513-04000	EA
4513-05000	EA
4513-06000	EA

PART NUMBER	PKG QTY
4513-10000	EA
4513-11000	10
4515X10	10
4515X10X12	10
4515X10X8	10
4515X12	5
4515X12X10	5
4515X12X16	5
4515X12X8	5
4515X16	2
4515X16X12	5
4515X16X20	2
4515X20	1
4515X20X16	1
4515X24	1
4515X4	10
4515X4X6	25
4515X4X8	10
4515X6	25
4515X6X10	10
4515X6X4	10
4515X6X5	10
4515X6X8	10
4515X8	10
4515X8L	2
4515X8X10	5
4515X8X12	5
4515X8X6	EA
4521-90005	EA
4521-91005	EA
4521-92005	EA
4521-94005	EA
4521-96005	EA
4521-AA005	EA
4521-AE005	EA
4521-AF005	EA
4521-AG004	EA
4521-AR004	EA
4523-04005	EA
4523-04006	EA
4523-04007	EA
4523-04008	1
4525X12	1
4525X16	1
4525X6	1
4525X8	1
452X10	1
452X3	2
452X4	5
452X5	5
452X6	EA
452X8	5
4530-009S0	EA
4530-01002	EA
4530-01003	EA
4530-01005	1
4535X10	1
4535X16	1
4535X4	2
4535X6	2
4535X8	EA
4540-30200	EA
4540-30300	EA
4540-30400	EA
4540-30500	EA
4540-30600	EA
4540-30800	EA
4540-31200	EA
4540-31600	EA
4540-3W300	EA
4540-3W400	EA
4540-A0800	EA
4540-B1600-001	EA
4540-H0300	EA
4540-H0400	EA
4540-H0600	EA
4540-H0800	EA
4540-H1200	EA
4540-H1600	EA
4540-HP600	EA
4540-J06N0	EA
4540-N10C0	EA
4540-N1200	EA
4540-V0300	EA
4540-V0400	EA
4540-V0600	EA
4545-01001	EA

PART NUMBER	PKG QTY
4554-04000	EA
4554-06000	EA
4554-07000	EA
4554-08000	EA
4554-10000	EA
4554-12000	EA
4554-14000	EA
4554-16000	EA
4554-19000	EA
4554-22000	EA
4574-01000	EA
4574-02000	EA
4574-03000-003	EA
4574-03000-004	EA
4574-03000-005	EA
4574-03000-006	EA
4574-03000-008	EA
4574-03000-009	EA
4574-03000-010	EA
4574-03000-011	EA
4574-03000-012	EA
4574-03000-013	EA
4574-03000-014	EA
4574-03000-015	EA
4574-03000-022	EA
4574-03000-025	EA
4574-03000-027	EA
4599-FP001	EA
4599-FP002	EA
4599-FP003	EA
4599-FP004	EA
4599-FP005	EA
4599-FP006	EA
4599-FP007	EA
4599-FP008	EA
4599-FP009	EA
4599-FP010	EA
4599-FP011	EA
4599-FP012	EA
4599-FP013	EA
4599-FP014	EA
4599-FP015	EA
4599-FP016	EA
4599-FP017	EA
4599-FP018	EA
4599-FP019	EA
4599-FP021	EA
4599-FP022	EA
4599-FP024	EA
4599-FP025	EA
4599-MP001	EA
4599-MP002	EA
4599-MP003	EA
4599-MP004	EA
4599-MP005	EA
4599-MP006	EA
4599-MP007	EA
4599-MP008	EA
4599-MP009	EA
4599-MP010	EA
4599-MP011	EA
4599-MP012	EA
4599-MP013	EA
4599-MP016	EA
4599-MP018	EA
4599-MP023	EA
4599-MP027	EA
4599-MP037	EA
4599-MP039	EA
4599-MP045	EA
4599-MP046	EA
4599-SP031	EA
4599-TP204	EA
4599-TP205	EA
4599-TP206	EA
4599-TP208	EA
4599-TP308	EA
4599-TP310	EA
4599-TP312	EA
45J0-00212	EA
45J0-01107	EA
45J0-01108	EA
45J0-01109	EA
45J0-01113	EA
45J0-01114	EA
45J0-01115	EA
45J0-02012	EA

PART NUMBER	PKG QTY
45J0-02014-001	EA
45J0-02014-002	EA
45J0-02014-003	EA
45J0-02014-004	EA
45J0-02014-005	EA
45J0-02015	EA
45J0-02016	EA
45J0-02020	EA
45J0-02024	EA
45J0-03401	EA
45J0-05600	5
45X10	2
45X12	2
45X3	5
45X4	EA
45X4X4X4	10
45X4Z	1
45X5	5
45X5X5X4	2
45X6	5
45X6X6X6	1
45X8	5
45X8X8X8	5
4629X10	25
4629X12	25
4629X16	25
4629X20	10
4629X24	10
4629X4	25
4629X6	25
4629X8	25
4639X10	10
4639X12	10
4639X16	10
4639X20	5
4639X24	5
4639X4	25
4639X6	25
4639X8	25
4640X10	5
4640X12	5
4640X16	5
4640X20	5
4640X24	5
4640X4	5
4640X6	5
4640X8	5
46X10	2
46X3	25
46X4	5
46X4X4	5
46X5	5
46X5X4	5
46X6	5
46X6X2	5
46X6X6	5
46X6X8	2
46X8	5
46X8X4	5
46X8X8	10
4.70E-104	1
47008E-608	1
47008E-668	1
47008E-688	1
47008E-G08	1
47008E-G41	1
47008E-G71	1
4.70E-108	1
47012E-25F	1
47012E-362	1
47012E-52P	1
47012E-612	1
47012E-616	1
47012E-672	1
47012E-692	1
47012E-75C	1
47012E-82P	1
47012E-D12	1
47012E-D16	1
47012E-D42	1
47012E-D46	1
47012E-D72	1
47012E-D76	1
47012E-G12	1
47012E-G16	1
47012E-G42	1
47012E-G72	1

PART NUMBER	PKG QTY
47012E-G76	1
47012E-S72	1
4.70E-112	1
47016E-30F	1
47016E-366	1
47016E-56P	1
47016E-616	1
47016E-676	1
47016E-696	1
47016E-80C	1
47016E-86P	1
47016E-D16	1
47016E-D20	1
47016E-D24	1
47016E-D46	1
47016E-D50	1
47016E-D76	1
47016E-D80	1
47016E-D84	1
47016E-G16	1
47016E-G46	1
47016E-G76	1
47016E-N25	1
47016E-N63	1
47016E-S76	1
47016E-S80	1
4.70E-116	1
47020E-370	2
47020E-38F	1
47020E-620	1
47020E-88C	1
47020E-A40	1
47020E-D20	1
47020E-D24	1
47020E-D50	1
47020E-D54	1
47020E-D80	1
47020E-D80L47	1
47020E-D80L60	1
47020E-D84	1
47020E-G20	1
47020E-G50	1
47020E-G80	1
47020E-N25	1
47020E-N55	1
47020E-S80	1
4.70E-120	1
47024E-374	1
47024E-624	1
47024E-D20	1
47024E-D24	1
47024E-D54	1
47024E-D80	1
47024E-D84	1
47024E-G24	1
47024E-G54	1
47024E-G84	1
4.70E-128	1
47032E-375	1
47032E-632	1
47032E-D32	2
47032E-D62	2
47032E-D92	2
47032E-G32	1
47032E-G62	1
47032E-G92	1
4705X10	2
4705X12	2
4705X4	5
4705X6	1
4705X6X6X8	5
4705X8	5
4705X8X6X8	2
4706X10	2
4706X12	2
4706X16	1
4706X20	1
4706X4	5
4706X6	5
4706X8	5
4707X6	5
4707X8	5
4715X10	5
4715X12	2
4715X12X16	2
4715X16	2
4715X4	10

PART NUMBER	PKG QTY
4715X6	5
4715X8	1
4715X8X6	5
4716X12	2
4716X4	10
4716X6	10
4716X8	5
4726X12	2
4726X16	1
4726X6	5
4726X8	5
4836AA	1
48X10	5
48X10-CT	175
48X10X6	EA
48X10Z	1
48X12	1
48X12X12	2
48X2	5
48X3	10
48X4	10
48X4-CT	1300
48X4X4	10
48X4X4-CT	EA
48X4Z	10
48X5	10
48X5X4	10
48X6	10
48X6-CT	500
48X6X2	5
48X6X6	5
48X6X6-CT	EA
48X6X6Z	2
48X6X8	EA
48X6X8Z	EA
48X6Z	5
48X7	2
48X8	5
48X8-CT	300
48X8X4	EA
48X8X4Z	10
48X8X8	10
48X8X8-CT	EA
48X8X8Z	EA
48X8Z	1
4924X12	1
4924X16	1
4924X20	1
4924X24	1
4924X4	20
4924X6	1
4924X8	1
49X10	5
49X10-CT	120
49X10X6	EA
49X10Z	2
49X12	2
49X12X12	2
49X2	5
49X3	5
49X4	10
49X4-CT	850
49X4X4	5
49X4X4-CT	EA
49X4X4Z	5
49X4X6	EA
49X4Z	10
49X5	10
49X5X4	10
49X5X4-CT	450
49X6	10
49X6-CT	320
49X6X2	EA
49X6X2Z	10
49X6X6	10
49X6X6-CT	EA
49X6X6Z	2
49X6X8	EA
49X6Z	5
49X7	2
49X8	5
49X8-CT	190
49X8X4	2
49X8X8	10
49X8X8-CT	EA
49X8X8Z	EA
49X8Z	1

PART NUMBER	PKG QTY
4SP12W-112	1
4SP12W-25E	1
4SP12W-30E	1
4SP12W-362	EA
4SP12W-366	1
4SP12W-52P	1
4SP12W-56P	1
4SP12W-612	1
4SP12W-616	1
4SP12W-672	1
4SP12W-676	1
4SP12W-692	1
4SP12W-696	1
4SP12W-75C	1
4SP12W-75E	1
4SP12W-80C	1
4SP12W-80E	1
4SP12W-82P	1
4SP12W-86P	EA
4SP12W-BD12	EA
4SP12W-BD42	EA
4SP12W-BD72	EA
4SP12W-BE12	1
4SP12W-D12	1
4SP12W-D16	1
4SP12W-D42	1
4SP12W-D46	1
4SP12W-D72	1
4SP12W-D76	1
4SP12W-G12	1
4SP12W-G16	1
4SP12W-G42	1
4SP12W-G46	1
4SP12W-G72	1
4SP12W-G76	1
4SP12W-J42	1
4SP12W-J46	1
4SP12W-J72	1
4SP12W-J76	1
4SP12W-K12	1
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4SP12W-K72	1
4SP12W-K76	1
4SP12W-L72	1
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4SP16W-370	1
4SP16W-38E	1
4SP16W-56P	1
4SP16W-60P	1
4SP16W-616	1
4SP16W-620	1
4SP16W-676	1
4SP16W-677	1
4SP16W-696	1
4SP16W-697	1
4SP16W-80C	1
4SP16W-80E	1
4SP16W-86P	1
4SP16W-88C	1
4SP16W-88E	1
4SP16W-90P	EA
4SP16W-BD16	EA
4SP16W-BD20	EA
4SP16W-BD46	EA
4SP16W-BD50	EA
4SP16W-BD76	EA
4SP16W-BD80	EA
4SP16W-BE16	EA
4SP16W-BE20	1
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4SP16W-D20	1
4SP16W-D46	1
4SP16W-D50	1
4SP16W-D76	1
4SP16W-D80	1
4SP16W-G16	1
4SP16W-G20	1
4SP16W-G46	1
4SP16W-G50	1
4SP16W-G76	1
4SP16W-G80	1
4SP16W-J46	1

PART NUMBER	PKG QTY
4SP16W-J50	1
4SP16W-J76	1
4SP16W-J80	1
4SP16W-K16	1
4SP16W-K20	1
4SP16W-K46	1
4SP16W-K50	1
4SP16W-K76	1
4SP16W-K80	1
4SP16W-L76	1
4SP16W-L80	1
4SP20W-120	EA
4SP20W-370	1
4SP20W-38E	1
4SP20W-60P	1
4SP20W-620	1
4SP20W-624	1
4SP20W-677	1
4SP20W-697	1
4SP20W-88C	1
4SP20W-88E	1
4SP20W-90P	1
4SP20W-D20	1
4SP20W-D24	1
4SP20W-D50	1
4SP20W-D54	1
4SP20W-D80	1
4SP20W-D84	1
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4SP20W-G54	1
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4SP20W-G84	1
4SP20W-J50	1
4SP20W-J80	1
4SP20W-K20	1
4SP20W-K50	1
4SP20W-K80	1
4SP20W-L80	1
4SP24W-124	EA
4SP24W-374	1
4SP24W-624	1
4SP24W-64P	1
4SP24W-678	1
4SP24W-698	1
4SP24W-94P	1
4SP24W-D24	1
4SP24W-D32	1
4SP24W-D54	1
4SP24W-D62	1
4SP24W-D84	1
4SP24W-D92	1
4SP24W-G24	1
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4SP24W-G54	1
4SP24W-G62	1
4SP24W-G84	1
4SP24W-G92	1
4SP24W-J84	1
4SP32W-132	EA
4SP32W-375	1
4SP32W-632	1
4SP32W-65P	1
4SP32W-95P	1
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4SP32W-G32	1
4SP32W-G62	1
4SP32W-G92	1
500-00944	1
500-01205	1
500-01207	1
500-01212	1
500-01782	1
500-01796	1
500-01797	1
500-02050-L	1
500-02464	1
500-02666	1
500-07903	1
500-07943	1
500-58030-01025	1
500-58030-01350	1
500-58030-01500	1
500-58030A01500	1

PART NUMBER	PKG QTY
500023-16-12S	1
500023-24-16S	1
500023-24-20S	1
500024-16-12S	1
500024-20-12S	1
500024-24-16S	1
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50016X20	1
50020	1
50020X16	1
50024	1
50032	1
500454-10S	1
500454-12S	1
500454-16S	1
500454-20S	1
500454-4S	1
500454-6S	1
500454-8S	1
502-43176-04800	1
502-45136-05600	EA
502-65002	EA
502-65003	EA
502-65004	EA
502-65005	1
5027X10X4	1
5027X10X6	1
5027X10X8	1
5027X12X4	1
5027X12X6	1
5027X12X8	1
5027X16X12	1
5027X16X8	1
5027X4X2	1
5027X6X4	1
5027X8X4	1
5027X8X6	1
502X4	5
502X5	2
502X6	2
502X8	2
503-38027-16600	1
503-38027C16600	1
503-38097-02912	1
503-38097-03600	1
503-38097-04800	1
503-38166-02400	1
503-38166-02500	1
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503-38353-02500	1
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503-38353-05400	1
503-38353-05600	1
503-38353-05900	1
503-38353-06100	1
503-38353-06400	1
503-38353-06500	1

PART NUMBER	PKG QTY
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503-38353-06700	1
503-38353-06800	1
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503-38353-07300	1
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PART NUMBER	PKG QTY
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503-38359C08000	1
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503-38359N02000	1
503-38359N02100	1
503-38359N02300	1

PART NUMBER	PKG QTY
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503-38359N03500	1
503-38359V02300	1
503-38359V03500	1
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50X3	2
50X4	5
50X4X4	5
50X5	10
50X5X4	2
50X6	5
50X6X6	10
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50X8X8	10
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5100-S2-10B	1
5100-S2-12B	1
5100-S2-16B	1
5100-S2-20B	1
5100-S2-24B	1

PART NUMBER	PKG QTY
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5100-S4-10B	1
5100-S4-12B	1
5100-S4-16B	1
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5117X8	10
5141X10	1
5141X12	1
5141X16	1
5141X20	1
5141X4	1
5141X5	1
5141X6	1
5141X8	1
5177X10	1

PART NUMBER	PKG QTY
5177X12	1
5177X16	1
5177X2	1
5177X20	1
5177X24	1
5177X3	1
5177X32	1
5177X4	1
5177X5	1
5177X6	1
5177X8	1
5188	10
51X10	2
51X3	2
51X4	EA
51X4Z	1
51X5	2
51X5X4X5	2
51X6	5
51X6X6X6	5
51X8	5
51X8X8X8	5
5217X10	1
5217X10X6	1
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5217X12X8	1
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5217X4	1
5217X4X4	1
5217X4X6	1
5217X5	1
5217X5X4	1
5217X6	1
5217X6X2	1
5217X6X6	1
5217X6X8	1
5217X8	1
5217X8X12	1
5217X8X4	1
5217X8X8	1
5241X10	1
5241X12	1
5241X16	1
5241X2	1
5241X3	1
5241X4	1
5241X5	1
5241X6	1
5241X8	1
5267X10	1
5267X12	1
5267X12X8	1
5267X16	1
5267X4	1
5267X4X4	1
5267X5X4	1
5267X6	1
5267X6X6	1
5267X8	1
5267X8X8	1
530	EA
530Z	1
5317X10	1
5317X12	1
5317X16	1
5317X4	1
5317X5	1
5317X6	10
5317X8	1
5318X10	1
5318X12	1
5318X16	1
5318X4	1
5318X5	1
5318X6	1
5318X6X4	1
5318X8	1
5318X8X6	1
5327X10	1
5327X12	1
5327X16	1
5327X2	1
5327X4	1

PART NUMBER	PKG QTY
5327X4X5	1
5327X6	1
5327X6X8	1
5327X8	1
5327X8X10	1
5327X8X12	1
5337X10	1
5337X12	1
5337X4	1
5337X6	1
5337X8	1
5367X12	1
5367X4	1
5367X4X4	1
5367X6	1
5367X8	1
5367X8X8	1
5368X6	1
5368X8	1
537	1
5400-S2-12	1
5400-S2-16	1
5400-S2-4	1
5400-S2-8	1
5400-S5-12	1
5400-S5-16	1
5400-S5-4	1
5400-S5-8	EA
5400-s6-12	1
5417X10	1
5417X12	1
5417X12X8	1
5417X16	1
5417X2	1
5417X4	1
5417X4X4	1
5417X5X4	1
5417X6	1
5417X6X2	1
5417X6X6	1
5417X6X8	1
5417X8	1
5417X8X12	1
5417X8X4	1
5417X8X8	1
54508	1
54508X12	1
54512	1
54516	1
54516X20	2
54520	1
54520X16	1
54524	1
54532	1
5467X12	1
5467X16	1
5467X4	2
5467X4X4	1
5467X6	1
5467X6X6	1
5467X8	1
5467X8X8	1
54X10	1
54X10X6	1
54X4	10
54X4X4	EA
54X4X4Z	EA
54X4Z	5
54X5	5
54X6	EA
54X6X6	10
54X6Z	5
54X8	5
54X8X8	EA
54X8Z	1
5517X10	1
5517X12	1
5517X16	1
5517X4	1
5517X6	1
5517X8	1
5518X12	1
5518X16	1
5518X4	1
5518X6	1
5518X8	1
5527X12	1

PART NUMBER	PKG QTY
5527X4	1
5527X5	1
5527X6	1
5527X8	1
552X3	1
552X4	5
5537X12	1
5537X4	1
5537X6	1
5537X8	5
55X10	2
55X4	10
55X5	5
55X6	1
55X8	5
5600-12-10S	1
5600-12-12S	1
5600-16-16S	1
5600-2-4S	1
5600-4-4S	1
5600-6-6S	1
5600-8-10S	1
560078-6-6S	1
5601-12-10S	1
5601-12-12S	1
5601-16-16S	1
5601-2-4S	1
5601-4-4S	1
5601-6-6S	1
5601-8-10S	1
5602-12-10S	1
5602-12-12S	1
5602-16-16S	1
5602-2-4S	1
5602-4-4S	1
5602-6-6S	1
5602-8-10S	1
5603	1
5603-1	1
5603-2	1
5606-10-10S	1
5606-12-12S	1
5606-16-16S	1
5606-6-6S	1
5606-8-10S	1
5608-10-10S	1
5608-12-12S	1
5608-16-16S	EA
5608-4-4S	1
5608-6-6S	1
5608-8-10S	1
5610-10-10S	1
5610-12-12S	1
5610-16-16S	1
5610-4-4S	1
5610-6-6S	1
5610-8-10S	1
5617X4	1
5617X6	1
5642-12-10S	1
5642-2-4S	1
5642-4-4S	1
5642-8-10S	1
5643-12-10S	1
5643-12-12S	1
5643-16-16S	1
5643-4-4S	1
5643-6-6S	1
5643-8-10S	1
5644-12-10S	1
5644-12-12S	1
5644-16-16S	1
5644-4-4S	1
5644-8-10S	1
5650-12-10S	1
5650-8-10S	1
5651-12-10S	1
5651-8-10S	1
56519A4-7	1
56519A5-8	1
56519A6-14	1
56519A8-16	1
5653-10S	1
56535A4C-C	1
56535A5C-C	1
56535A6C-C	1
56535A8C-C	1

PART NUMBER	PKG QTY
5657-10	1
5657-12	1
5657-16	1
5657-4	1
5657-6	1
5659-10	1
5659-12	1
5659-16	1
5659-4	1
5659-6	1
5667X4	1
5667X6	1
56X3	5
56X4	1
57012S-D12	1
57012S-D16	1
57012S-D42	1
57012S-D46	1
57012S-D72	1
57012S-D76	1
57012S-K12	1
57012S-K16	1
57012S-K42	1
57012S-K46	1
57012S-K72	1
57012S-K76	1
57016S-D16	1
57016S-D20	1
57016S-D46	1
57016S-D50	1
57016S-D76	1
57016S-D80	1
57016S-K16	1
57016S-K20	1
57016S-K46	1
57016S-K50	1
57016S-K76	1
57016S-K80	1
57020S-D20	1
57020S-D24	1
57020S-D50	1
57020S-D54	1
57020S-D80	1
57020S-D84	1
57020S-K20	1
57020S-K24	1
57020S-K50	1
57020S-K54	1
57020S-K80	1
57020S-K84	1
57024S-D24	1
57024S-D54	1
57024S-D84	1
57024S-K24	1
57024S-K54	1
57024S-K84	1
57032S-D32	1
57032S-D62	1
57032S-D92	1
57032S-K32	1
57032S-K62	1
57032S-K92	1
5717X10	1
5717X12	1
5717X4	1
5717X6	1
5717X8	1
5718X12	1
5718X4	1
5718X6	1
5718X8	1
5719X12	1
5719X4	1
5719X6	1
5719X8	1
5737X4	1
5737X6	1
5767X4	1
5767X6	1
5767X8	1
59008	1
59008X12	1
59012	1
59016	1
59016X20	1
59020	1
59020X16	1

PART NUMBER	PKG QTY
59024	1
59032	1
5967X4	1
5967X6	1
5967X8	1
59X4	10
5X6PB	50
600-03566-26100	1
600-03687	1
600-78010	1
60008	1
60012	1
60016	1
60020	1
60024	1
60032	1
601X10	5
601X12	5
601X16	5
601X2	10
601X3	10
601X4	10
601X5	10
601X6	10
601X8	5
602X3	10
602X4	EA
602X4Z	5
602X5	5
602X6	5
602X8	5
60C4-4F	5
60C6-6F	5
60N4-4F	5
60N6-6F	5
60PDP-4	5
60PDP-6	5
60X10	10
60X12	10
60X16	10
60X2	50
60X3	50
60X4	50
60X5	50
60X6	50
60X7	10
60X8	20
6100X2	10
6100X3	10
6100X4	10
6100X5	10
6100X6	10
611X10	EA
611X12	10
611X2	10
611X3	10
611X4	50
611X4-CT	2500
611X5	10
611X6	10
611X8	5
61C12-12F	2
61C16-16F	1
61C4-4F	5
61C6-6F	5
61C8-8F	5
61N12-12F	2
61N16-16F	1
61N4-4F	5
61N6-6F	5
61N8-8F	5
61PDC-12	1
61PDC-16	1
61PDC-4	1
61PDP-12	1
61PDP-16	1
61PDP-4	1
61PDP-8	1
61X10	EA
61X12	10
61X2	10
61X2-CT	4700
61X3	20
61X3-CT	3600
61X4	20
61X4-CT	2600
61X5	20

PART NUMBER	PKG QTY
61X5-CT	2000
61X6	10
61X6-CT	1550
61X7	10
61X8	10
61X8-CT	650
6200X2	25
6200X2X21	EA
6200X2Z	10
6200X3	10
6200X4	10
6200X5	25
6200X6	10
6202	1
6203-006	10
6203-008	10
6203-010	10
6203-012	10
6203-016	10
6203-020	10
6203-024	10
6203-028	10
6203-032	10
6203-036	10
6203-040	5
6203-044	5
6203-048	5
6203-052	5
6203-056	5
6203-064	5
6203-072	5
6203-080	5
6203-088	5
6203-096	5
6203-104	5
6204-006	10
6204-008	10
6204-010	10
6204-012	10
6204-016	10
6204-020	10
6204-024	10
6204-028	10
6204-032	10
6204-036	10
6204-040	5
6204-044	5
6204-048	5
6204-052	5
6204-056	5
6204-064	5
6204-072	5
6204-080	5
6204-088	5
6204-096	5
6204-104	5
6205-004	10
6205-006	10
6206-004	10
6206-006	10
6207-004	1
6207-005	1
6207-006	1
621X10	1
621X12	2
621X2	5
621X3	5
621X4	5
621X5	5
621X6	5
621X8	2
62X10	2
62X12	1
62X2	10
62X2-CT	1500
62X3	10
62X3-CT	1000
62X4	10
62X4-CT	750
62X5	10
62X5-CT	550
62X6	10
62X6-CT	400
62X8	5
62X8-CT	200
63-190600-10	1
63-190600-12	1

PART NUMBER	PKG QTY
63-190600-16	1
63-190600-20	1
63-190600-4	1
63-190600-5	1
63-190600-6	1
63-190600-8	EA
63-190990-10	1
63-190990-12	1
63-190990-6	1
630	1
6300X4	1
6300X5	2
631X3	5
631X4	5
631X5	5
631X6	2
632	1
63N8-8F	5
63X3	5
63X4	5
63X5	2
63X6	2
6400X2	10
6400X2X21	10
6400X3	5
6400X4	5
6400X5	10
6400X6	10
6405-6-6-0-ZD	1
641X3	2
641X4	5
641X5	2
641X6	2
641X8	2
64508	1
64512	1
64516	1
64520	1
64524	1
64532	1
64X3	5
64X4	5
64X5	5
64X6	5
64X8	2
4/4/00	1
651X3	2
651X4	5
651X5	2
651X6	2
651X8	2
652X3	2
652X4	5
652X5	2
652X6	2
652X8	2
6550X3	2
65X3	5
65X4	5
65X5	5
65X6	5
65X8	2
6600	1
661X10	2
661X2	5
661X3	5
661X4	5
661X4X4	5
661X5	5
661X5X4	5
661X6	2
661X6X2	2
661X8	2
6660	1
6660-CT	EA
6660Z	EA
6660Z-CT	5
66X10	5
66X2	5
66X3	5
66X4	10
66X4X4	5
66X5	10
66X5X4	5
66X6	5
66X6X2	5
66X8	5

PART NUMBER	PKG QTY
6700	1
6703	1
6707	1
6708	1
6709	1
6715	1
6719	1
6724	1
6729	1
6737	1
6746	1
6747	1
6748	1
6749	1
6749V	1
6783	1
6788	1
6788-CT	500
6800	1
6804	1
6805	1
6809	1
6810	1
6815	1
681X10	1
681X12	5
681X12X12	2
681X2	10
681X2X1	2
681X3	10
681X3X4	2
681X4	5
681X4X4	5
681X5	10
681X5X4	5
681X6	5
681X6X2	5
681X6X6	EA
681X6X6Z	2
681X6X8	2
681X8	2
681X8X4	2
681X8X8	2
6820	1
6820-CT	300
6824	1
6825	1
6825-CT	175
6828	1
6829	1
6891	1
6892	1
6893	1
68B-8	5
68C8-8F	5
68X10	5
68X12	5
68X12X12	5
68X2	10
68X2-CT	1300
68X2X1	10
68X3	10
68X3-CT	1100
68X3X4	10
68X4	10
68X4-CT	900
68X4X4	10
68X4X4-CT	650
68X5	10
68X5X4	10
68X6	10
68X6-CT	600
68X6X2	10
68X6X6	5
68X6X8	EA
68X6Z	5
68X7	5
68X8	5
68X8X4	2
68X8X8	10
69008	1
69012	1
69016	1
69020	1
69024	1
69032	1
691X10	1

PART NUMBER	PKG QTY
691X12	5
691X12X12	5
691X2	10
691X2X1	2
691X3	10
691X4	10
691X4X4	10
691X5	5
691X5X4	5
691X6	5
691X6X2	2
691X6X6	2
691X6X8	EA
691X6Z	2
691X8	2
691X8X4	2
691X8X8	2
695	1
69X10	2
69X12	5
69X12X12	5
69X2	10
69X2X1	EA
69X2Z	10
69X3	10
69X3-CT	800
69X4	10
69X4-CT	710
69X4X4	10
69X4X4-CT	EA
69X4Z	10
69X5	10
69X5X4	10
69X6	10
69X6-CT	375
69X6X2	5
69X6X6	5
69X6X6-CT	250
69X6X8	5
69X7	2
69X8	5
69X8-CT	200
69X8X4	2
69X8X8	2
6SP16W-J76	1
6SP16W-J80	1
6SP20W-120	1
6SP20W-38E	1
6SP20W-620	1
6SP20W-624	1
6SP20W-677	1
6SP20W-697	1
6SP20W-88C	1
6SP20W-88E	1
6SP20W-BD20	1
6SP20W-BD24	1
6SP20W-BD50	1
6SP20W-BD54	1
6SP20W-BD80	1
6SP20W-BD84	1
6SP20W-BE20	1
6SP20W-BE24	1
6SP20W-D20	1
6SP20W-D24	1
6SP20W-D50	1
6SP20W-D54	1
6SP20W-D80	1
6SP20W-D84	1
6SP20W-G20	1
6SP20W-G50	1
6SP20W-G80	1
6SP20W-J50	1
6SP20W-J80	1
6SP20W-K20	1
6SP20W-K24	1
6SP20W-K50	1
6SP20W-K54	1
6SP20W-K80	1
6SP20W-K84	1
6SP20W-L80	1
6SP24W-124	1
6SP24W-374	1
6SP24W-624	1
6SP24W-678	1
6SP24W-698	1
6SP24W-94P	1
6SP24W-BD24	1

PART NUMBER	PKG QTY
6SP24W-BD54	1
6SP24W-BD62	1
6SP24W-BD84	1
6SP24W-D24	1
6SP24W-D32	1
6SP24W-D54	1
6SP24W-D62	1
6SP24W-D84	1
6SP24W-D92	1
6SP24W-G24	1
6SP24W-G54	1
6SP24W-G84	1
6SP24W-J84	1
6SP24W-K24	1
6SP24W-K32	1
6SP24W-K54	1
6SP24W-K62	1
6SP24W-K84	1
6SP24W-K92	1
6SP32W-132	1
6SP32W-375	1
6SP32W-632	1
6SP32W-95P	1
6SP32W-BD62	EA
6SP32W-CC32	1
6SP32W-D32	1
6SP32W-D62	1
6SP32W-D92	1
6SP32W-G32	1
6SP32W-G62	1
6SP32W-G92	1
6SP32W-K32	1
6SP32W-K62	1
6SP32W-K92	1
6X10PB	50
700	1
701-59949	1
701-59950	1
7015X10X8	1
7015X12X6	1
7015X12X8	1
7015X16X12	1
7015X20X16	1
7015X6X4	2
7015X8X4	2
7015X8X6	2
701X10	2
701X3	2
701X4	2
701X5	2
701X6	2
701X8	2
702	1
7027X10X8	1
7027X12X8	1
7027X16X12	1
7027X16X8	1
7027X6X4	1
7027X8X4	1
7027X8X6	1
702X14	1
702X2	2
702X3	10
702X3-CT	700
702X4	5
702X5	5
702X6	5
702X8	5
703	1
7033X10X8	1
7033X12X6	5
7033X12X8	1
7033X14X12	1
7033X16X12	1
7033X16X8	1
7033X20X12	1
7033X24X20	1
7033X32X24	1
7033X8X6	1
705	1
706-04064	1
706-06768	1
706-06768-01	1
706-07048	1
706-07052	1
706-07054	1
706-10304	1

PART NUMBER	PKG QTY
706-23801	1
70X10	5
70X3	2
70X4	5
70X5	5
70X6	10
70X8	5
71-3C12-12F	2
71-3C16-16F	2
71-3C4-4F	5
71-3C6-6F	3
71-3C8-8F	3
71-3N12-12F	2
71-3N16-16F	2
71-3N4-4F	5
71-3N6-6F	3
71-3N8-8F	3
71-3PCC-12	1
71-3PCC-16	1
71-3PCC-4	1
71-3PCC-6	1
71-3PCC-8	1
71-3PNC-12	1
71-3PNC-16	1
71-3PNC-4	1
71-3PNC-6	1
71-3PNC-8	1
7105X10	10
7105X12	1
7105X14	1
7105X16	1
7105X2	10
7105X20	1
7105X24	1
7105X3	10
7105X32	1
7105X4	1
7105X5	1
7105X6	25
7105X8	1
7117X10	1
7117X12	1
7117X14	1
7117X16	1
7117X2	1
7117X20	1
7117X24	1
7117X3	1
7117X32	1
7117X4	1
7117X5	1
7117X6	1
7117X8	1
711X3	2
711X4	2
711X4X4X4	5
711X5	2
711X6	2
711X8	2
7129X10	2
7129X12	1
7129X16	1
7129X20	1
7129X4	5
7129X6	2
7129X8	2
7141X10	1
7141X12	1
7141X16	1
7141X2	1
7141X4	1
7141X6	1
7141X8	1
7165X10	1
7165X10MM	5
7165X12	1
7165X12MM	5
7165X14	1
7165X14MM	5
7165X15MM	5
7165X16	1
7165X16MM	5
7165X18MM	5
7165X2	10
7165X20	1
7165X20MM	5
7165X22MM	5

PART NUMBER	PKG QTY
7165X24	2
7165X25MM	5
7165X28MM	2
7165X3	10
7165X30MM	2
7165X32	1
7165X38MM	2
7165X4	50
7165X5	1
7165X6	10
7165X6MM	10
7165X8	25
7165X8MM	5
7176X10	1
7176X12	1
7176X14	1
7176X16	1
7176X2	1
7176X20	1
7176X24	1
7176X3	1
7176X32	1
7176X4	1
7176X5	1
7176X6	1
7176X8	1
71C2-2F	5
71N2-14MM	5
71N2-4F	5
71N2-4M	5
71N2-5MOS	5
71N2-6MOS	5
71PNC-2	1
71X3	5
71X4	5
71X4X4X4	5
71X5	2
71X6	5
71X8	2
7205X10	10
7205X10X6	1
7205X12	10
7205X12X8	1
7205X14	1
7205X16	5
7205X16X12	1
7205X2	2
7205X20	1
7205X24	1
7205X2X4	2
7205X3	10
7205X32	1
7205X4	25
7205X4X4	25
7205X4X6	2
7205X4X8	2
7205X5	2
7205X5X4	2
7205X6	25
7205X6X2	2
7205X6X6	25
7205X6X8	1
7205X8	25
7205X8X12	1
7205X8X4	10
7205X8X8	25
7217X10	1
7217X10X6	1
7217X12	1
7217X12X8	1
7217X16	1
7217X16X12	1
7217X2	1
7217X2X4	1
7217X3	1
7217X4	1
7217X4X4	1
7217X4X6	1
7217X4X8	1
7217X5	1
7217X5X4	1
7217X6	1
7217X6X2	1
7217X6X6	1
7217X6X8	1
7217X8	1
7217X8X12	1

PART NUMBER	PKG QTY
7217X8X4	1
7217X8X8	1
721X3	2
721X4	2
721X4X4X4	2
721X5	2
721X6	2
721X8	2
7229X10	1
7229X12	1
7229X16	1
7229X2	2
7229X4	2
7229X5	2
7229X6	2
7229X8	2
7237X10	25
7237X12	25
7237X14	2
7237X16	25
7237X2	10
7237X20	10
7237X24	1
7237X3	10
7237X32	1
7237X4	10
7237X5	1
7237X6	25
7237X8	25
7238X10	10
7238X12	5
7238X14	5
7238X16	2
7238X2	10
7238X20	2
7238X3	10
7238X4	25
7238X5	10
7238X6	25
7238X8	25
7241X12	1
7241X4	1
7241X6	1
7241X8	1
7255X10	5
7255X12	1
7255X14	1
7255X16	5
7255X2	2
7255X20	1
7255X3	1
7255X4	2
7255X4X4	2
7255X5	2
7255X6	2
7255X6X6	2
7255X8	5
7255X8X4	2
7255X8X8	5
7267X12	1
7267X16	1
7267X2	1
7267X4	1
7267X4X4	1
7267X5	1
7267X6	1
7267X6X6	1
7267X6X8	1
7267X8	1
7267X8X4	1
7267X8X8	1
72C12-12F	2
72C16-16F	1
72C4-4F	5
72C6-6F	5
72C8-8F	5
72N12-12F	2
72N16-16F	1
72N4-4F	5
72N6-6F	5
72N8-8F	5
72PDC-12	2
72PDC-16	2
72PDC-4	5
72PDC-6	5
72PDC-8	5
72PDP-12	2

PART NUMBER	PKG QTY
72PDP-16	2
72PDP-4	5
72PDP-6	5
72PDP-8	5
72X3	5
72X4	10
72X4X4X4	5
72X5	2
72X6	5
72X8	2
73014-10S	1
73014-12S	1
73014-14S	1
73014-16S	1
73014-20-16S	1
73014-20S	1
73014-32S	1
73014-4S	1
73014-5S	1
73014-6S	1
73014-8S	1
7305X10	5
7305X12	5
7305X14	2
7305X16	5
7305X2	1
7305X20	1
7305X24	1
7305X3	5
7305X32	1
7305X4	25
7305X5	5
7305X6	10
7305X6X4	1
7305X8	2
7305X8X6	1
7306X12	1
7306X16	1
7306X4	1
7306X6	1
7306X8	1
7306X8X6	1
7315X10	1
7315X12	2
7315X12X16	1
7315X14	1
7315X16	1
7315X16X12	1
7315X20	1
7315X24	1
7315X3	1
7315X32	1
7315X4	5
7315X4X5	1
7315X4X6	1
7315X5	1
7315X6	2
7315X6X8	1
7315X8	2
7315X8X10	1
7315X8X12	1
7317X10	1
7317X12	1
7317X16	1
7317X2	1
7317X3	1
7317X4	1
7317X5	1
7317X6	1
7317X6X4	1
7317X8	1
7318X12	1
7318X4	1
7318X6	1
7318X6X4	1
7318X8	1
7318X8X6	1
7325X12	1
7325X16	1
7325X4	1
7325X6	2
7325X8	1
7327X10	1
7327X12	1
7327X16	1
7327X4	1
7327X4X5	1

PART NUMBER	PKG QTY
7327X4X6	1
7327X6	1
7327X8	1
7327X8X12	1
7337X12	1
7337X4	1
7337X6	1
7337X8	1
7355X10	1
7355X12	2
7355X16	1
7355X4	2
7355X4X4	1
7355X5	1
7355X6	2
7355X8	1
7367X4	1
7367X4X4	1
7367X6	1
7367X8	1
7405X10	10
7405X10X6	1
7405X12	10
7405X12X8	1
7405X14	2
7405X16	5
7405X16X12	1
7405X2	10
7405X20	1
7405X24	1
7405X3	10
7405X32	1
7405X4	25
7405X4X4	25
7405X5	10
7405X5X4	2
7405X6	25
7405X6X2	1
7405X6X6	25
7405X6X8	1
7405X8	25
7405X8X4	10
7405X8X8	25
7417X10	1
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7417X16	1
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7417X4	1
7417X4X4	1
7417X5	1
7417X5X4	1
7417X6	1
7417X6X2	1
7417X6X6	1
7417X6X8	1
7417X8	1
7417X8X4	1
7417X8X8	1
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741X5	2
741X6	5
741X8	5
7455X10	5
7455X12	5
7455X14	1
7455X16	1
7455X4	2
7455X4X4	1
7455X6	2
7455X6X6	1
7455X8	1
7455X8X8	1
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7467X12	1
7467X4	1
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7467X6	1
7467X6X6	1
7467X8	1
7467X8X4	1
7467X8X8	1
74706A-756	10
74706A-W47	10
74706A-Z06	10
74706A-Z46	10

PART NUMBER	PKG QTY
74706A-Z66	10
74706A-Z86	10
74708A-468	10
74708A-758	10
74708A-Z48	10
74708A-Z88	10
74710A-470	10
74710A-758	10
74710A-760	10
74710A-Z10	10
74710A-Z50	10
74710A-Z70	10
74710A-Z90	10
74712A-762	10
74C6-6F	5
74C6-8EF	5
74C6-8F	5
74N6-6F	5
74N6-8EF	5
74N6-8F	5
74PCC-6	2
74PNC-6	2
74X4	5
74X5	2
74X6	10
74X8	10
7502	1
7504	1
7505X10	5
7505X12	5
7505X14	1
7505X16	2
7505X20	1
7505X24	1
7505X4	10
7505X5	1
7505X6	10
7505X8	10
7506	1
7508	1
7509	1
7515X10	1
7515X12	1
7515X16	1
7515X16X12	1
7515X20	1
7515X4	10
7515X5	1
7515X6	10
7515X8	1
7517X10	1
7517X12	1
7517X14	1
7517X16	1
7517X4	1
7517X6	1
7517X8	1
7518X6	1
7518X8	1
7527X10	1
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7527X4	1
7527X6	1
7527X8	1
752X3	5
752X4	1
752X5	5
752X6	10
752X8	5
75701	1
75702	1
75704	1
75706	1
7.57E-302	2
75706E-406	2
75706E-408	1
75706E-466	1
75706E-486	2
75706E-756	1
75706E-758	1
75706E-W06	1
75706E-W46	2
75706E-W47	1
75706E-W66	1
75706E-X06	1

PART NUMBER	PKG QTY
75706E-Y36	2
75706E-Y38	2
75706E-Y47	2
75706E-Z06	2
75706E-Z08	1
75706E-Z26	1
75706E-Z46	2
75706E-Z47	2
75706E-Z48	2
75706E-Z49	2
75706E-Z57	2
75706E-Z66	1
75706E-Z68	1
75706E-Z86	2
75706E-Z87	2
75706E-Z88	2
75706E-Z89	2
75706E-Z96	2
75706E-Z97	2
75706G-466	1
75706G-W06	1
75706G-W46	1
75706G-Z06	1
75706G-Z07	1
75706G-Z46	1
75706G-Z47	1
75706G-Z66	1
7.57E-304	1
75708E-388	1
75708E-408	1
75708E-468	1
75708E-488	1
75708E-756	1
75708E-758	1
75708E-760	1
75708E-W08	1
75708E-W48	2
75708E-W49	2
75708E-W68	1
75708E-X08	1
75708E-Y38	2
75708E-Y40	2
75708E-Y48	2
75708E-Z08	2
75708E-Z28	1
75708E-Z48	2
75708E-Z49	2
75708E-Z50	2
75708E-Z51	2
75708E-Z59	2
75708E-Z66	1
75708E-Z68	1
75708E-Z86	2
75708E-Z87	2
75708E-Z88	2
75708E-Z89	2
75708E-Z98	2
75708E-Z99	2
75708G-408	1
75708G-468	1
75708G-W28	1
75708G-W48	1
75708G-Z48	1
75708G-Z49	1
75708G-Z88	1
7.57E-306	1
75710E-390	1
75710E-410	1
75710E-470	1
75710E-490	1
75710E-758	1
75710E-760	1
75710E-W10	1
75710E-W50	2
75710E-W51	2
75710E-W70	1
75710E-X10	1
75710E-Y40	2
75710E-Y41	2
75710E-Y49	2
75710E-Z01	2
75710E-Z10	1
75710E-Z12	1
75710E-Z30	1
75710E-Z50	2
75710E-Z51	2
75710E-Z52	2

PART NUMBER	PKG QTY
75710E-Z53	2
75710E-Z61	2
75710E-Z70	1
75710E-Z72	1
75710E-Z90	2
75710E-Z91	1
75710G-610	1
75710G-W10	1
75710G-Z50	1
75710G-Z90	1
7.57E-308	1
75712E-410	2
75712E-412	1
75712E-470	1
75712E-472	1
75712E-490	1
75712E-492	1
75712E-760	1
75712E-762	1
75712E-W10	1
75712E-W12	1
75712E-W50	2
75712E-W51	2
75712E-W52	2
75712E-W53	2
75712E-X12	1
75712E-Y41	2
75712E-Y50	2
75712E-Z01	2
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75712E-Z61	2
75712E-Z70	1
75712E-Z72	1
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75712E-Z91	2
75712E-Z92	2
75712E-Z93	2
75712G-410	1
75712G-470	1
75712G-W10	1
75712G-W50	1
75712G-Z10	1
75712G-Z12	1
75712G-Z50	1
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75712G-Z52	1
75712G-Z70	1
75712G-Z90	1
75729	1
75730	1
75731	1
75732	1
75750	1
75751	1
75760	1
75761	1
7605X10	5
7605X12	1
7605X16	1
7605X4	1
7605X4X4X4	1
7605X5	1
7605X6	5
7605X8	1
7605X8X8X8	1
7617X2	1
7617X4	1
7617X4X4X4	1
7617X6	1
7617X6X6X8	1
7617X8	2
7617X8X8X8	1
761X3	2
761X4	10
7629X1	1
7629X10	10
7629X12	10
7629X14	1
7629X16	10
7629X2	10

PART NUMBER	PKG QTY
7629X20	10
7629X24	10
7629X3	10
7629X32	5
7629X4	10
7629X5	10
7629X6	10
7629X7	1
7629X8	10
7655X10	1
7655X12	1
7655X14	1
7655X16	1
7655X20	1
7655X4	1
7655X4X4X4	1
7655X6	1
7655X8	1
7667X4	1
7667X4X4X4	1
7667X6	1
7667X8	1
76C6-6M	5
76MDC-6	1
76MDP-6	1
76N6-6F	5
76X2	2
76X3	2
76X4	25
7705X10	5
7705X12	5
7705X14	1
7705X16	1
7705X3	1
7705X4	10
7705X5	1
7705X6	10
7705X8	10
7708	1
7709	1
7715X4	5
7715X6	1
7715X8	1
7716X4	5
7716X6	1
7716X8	1
7717X10	1
7717X12	1
7717X16	1
7717X4	1
7717X5	1
7717X6	1
7717X8	1
7718X4	1
7719X4	2
7719X6	2
7727	1
7727X4	1
7727X6	1
7728X4	1
7728X6	1
7728X8	1
7732	1
7755X10	1
7755X12	1
7755X16	1
7755X4	1
7755X4X4X4	1
7755X6	1
7755X8	1
7755X8X8X8	1
7765	1
7767X4	1
7767X4X4X4	1
7767X6	1
7767X8X8X8	1
7771	1
7805	1
7805X10	1
7805X12	1
7805X4	1
7805X4X4X4	1
7805X6	1
7805X8	1
7812	1
7812-CT	275
7817	1

PART NUMBER	PKG QTY
7818	1
7818-CT	1100
7828	1
7829	1
7829-CT	575
7896X3	5
7896X3-CT	2300
7896X4	25
7897	1
7898	1
7899	1
78DC-12	1
78DC-16	1
78DC-20	1
78DP-12	1
78DP-16	1
78DP-20	1
7900	1
7901	1
7902	1
7904	1
7904-CT	225
7905	1
7906	1
7907	1
7908	1
7908-CT	800
7909	1
7910	1
7911	1
7912	1
7913	1
7914	1
7915	1
7916	1
7917	1
7918	1
7919	1
7920	1
7921	1
7922	1
7924X10	5
7924X12	5
7924X14	5
7924X16	5
7924X20	5
7924X4	5
7924X6	5
7924X8	5
7933	1
7934A	2
7935	1
7936	1
7936X12	1
7936X16	1
7936X4	1
7936X6	1
7936X8	1
7937	1
7940	1
7941	1
7955X4	1
7955X6	1
7955X8	1
7967X4	1
7967X6	1
7970	1
7971	2
7972	1
7973	2
7974	1
7975	1
7976	2
7977	2
7978	1
799-00035C01700	1
799-00035C01900	1
799-00041-00727	1
799-00047-01000	1
799-00047-01100	1
799-00047-01300	1
799-00047-01400	1
799-00047-01500	1
799-00047-01700	1
799-00047-01800	1
799-00047-02400	1
799-00047-02800	1

PART NUMBER	PKG QTY
799-00047-03100	1
799-00047-03800	1
799-00047-04300	1
799-00609-11200	1
799-00609-28000	1
799-00609-30000	1
799-00612-09000	1
799-00614-10028	1
799-00614-12500	1
799-00614-24400	1
799-00617-11500	1
799-00618-07800	1
799-00618-12200	1
799-00618-22400	1
799-00619-07480	1
799-00620-33000	1
799-00629-07041	1
799-00629-11299	1
799-00630-02756	1
799-00630-03209	1
799-00630-03346	1
799-00630-03543	1
799-00630-06025	1
799-00630-07756	1
799-00630-08780	1
799-00630-09567	1
799-00634-06930	1
799-00634-10433	1
799-00635-01850	1
799-00635-03838	1
799-00635-06200	1
799-00636-07106	1
799-00636-09449	1
799-00636-11811	1
799-00637-04724	1
799-00637-05669	1
799-00637-06811	1
799-00637-08661	1
799-00637-10630	1
799-00637-12008	1
799-00637-13462	1
799-00638-03445	1
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799-00638-10712	1
799-00638-12126	1
799-00649-24600	1
799-00649-26500	1
799-00650-01673	1
799-00651-17913	1
799-00652-03346	1
799-00652-04783	1
799-00652-23313	1
799-00653-06102	1
799-00653-08661	1
799-00653-18500	1
799-00656-21654	1
799-00686-22800	1
8-108-A	1
8-108-C	1
8-608-A	1
8-608-B	1
8-608-C	1
8-F00-A	1
800132-32-CZ	1
8008	1
8012	1
8016	1
8020	1
8024	1
8032	1
8105X16	2
8112X4	1
8112X5	1
8112X6	1
81430-08	1
81430-10	1
81430-12	1
81430-14	1
81430-16	1
81430-18	1
81430-20	1
81430-22	1
81430-24	1
81430-28	1
81430-30	1
81430-36	1
8165X16	1

PART NUMBER	PKG QTY
8165X4	1
8165X5	1
8165X6	1
820008-8-316	1
820008-8-CZ	1
820012-12-CZ	1
820016-16-316	1
820016-16-CZ	1
820020-20-316	1
820020-20-CZ	1
820024-24-316	1
820024-24-CZ	1
820032-32-CZ	1
8367	1
8370	1
8371	1
8372	1
8373	1
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8532	1
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87-0008-02	1
87-0012-01	1
87-0012-02	1
87-0016-01	1
870000-12-304	1
870000-12-CZ	1
870000-16-304	1
870000-16-CZ	1
870000-20-304	1
870000-20-CZ	1
870000-24-304	1
870000-24-CZ	1
870000-32-304	1
870000-32-CZ	1
870000-8-304	1
870000-8-CZ	1
8X12PB	50
8X251	1
8X252	5
8X254	1
8X262	1
8X853	1
9-1024	EA
900564-10S	EA
900564-11S	EA
900564-12S	EA
900564-14S	EA
900564-1S	EA
900564-2S	EA
900564-3S	EA
900564-4S	EA
900564-5S	EA
900564-6S	EA
900564-7S	EA
900564-8S	EA
900564-9S	1
900568-10B	1
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900599-3S	1
900705-10S	1
900705-11S	1
900705-13S	1
900705-14S	1
900705-1S	1
900705-2S	1

PART NUMBER	PKG QTY
900705-3S	1
900705-4S	1
900705-5S	1
900705-6S	1
900705-7S	1
900705-8S	1
900705-9S	EA
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90302-042400-0	EA
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90302-045400-K	EA
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90303-042400-0	EA
90303-045000-0	EA
90303-045000-K	EA
90303-045400-0	EA
90303-045400-K	EA
90303-0455S0-0	EA
90303-04D000-0	EA
90303-055400-0	EA
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90304-0555S0-0	EA
90304-05D000-0	EA
90304-061000-0	EA
90304-065000-0	EA
90304-065500-0	EA
90304-065500-K	EA

PART NUMBER	PKG QTY
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90304-06D000-0	EA
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90305-0655S0-0	EA
90305-0655S0-K	EA
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90306-065000-K	EA
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90306-065500-K	EA
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90306-0655S0-0	EA
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90306-085000-K	EA
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90H03-045000-0	EA
90H03-045400-0	EA
90H03-0455S0-0	EA
90H03-04D000-0	EA

PART NUMBER	PKG QTY
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90H04-041400-0	EA
90H04-042000-0	EA
90H04-042400-0	EA
90H04-044000-0	EA
90H04-045000-0	EA
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90H04-065500-0	EA
90H04-06D000-0	EA
90H06-041000-0	EA
90H06-061000-0	EA
90H06-061400-0	EA
90H06-062400-0	EA
90H06-064000-0	EA
90H06-0640S0-0	EA
90H06-065000-0	EA
90H06-065500-0	EA
90H06-065500-K	EA
90H06-065540-0	EA
90H06-0655L0-0	EA
90H06-06A000-0	EA
90H06-081000-0	EA
90H06-085000-0	EA
90H06-085400-0	EA
90H06-085400-K	EA
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90H06-0855S0-0	EA
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90H08-081000-K	EA
90H08-081400-0	EA
90H08-082000-0	EA
90H08-082400-0	EA
90H08-084000-0	EA
90H08-085000-0	EA
90H08-085400-0	EA
90H08-085400-K	EA
90H08-0855S0-0	EA
90H08-105400-0	EA
90H08-105400-K	EA
90H08-1055L0-0	EA
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90H12-121000-0	EA
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90H16-161000-0	EA
90H16-162400-0	EA
90H16-165500-0	EA
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90N12-125500-0	EA
90N16-165500-0	EA
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90V03-021000-0	EA
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90V06-065500-0	1

PART NUMBER	PKG QTY
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9100X10X8	EA
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9100X12X12	5
9100X12X8	1
9100X16X12	2
9100X16X16	2
9100X20X20	1
9100X4X4	5
9100X5X4	1
9100X6X4	5
9100X6X6	5
9100X8X6	5
9100X8X8	EA
9100X8X8Z	2
9151X10X10	2
9151X6X6	5
9151X8X8	2
9154X10X10	2
9154X6X6	5
9154X8X8	5
91F576	1
9205X12X12	2
9205X12X12-CT	110
9205X12X16	1
9205X12X8	2
9205X16X12	2
9205X16X16	1
9205X16X16-CT	65
9205X16X20	1
9205X20X16	1
9205X20X20	2
9205X20X24	1
9205X24X20	1
9205X24X24	1
9205X2X2	EA
9205X2X2Z	1
9205X2X4	1
9205X32X32	1
9205X4X2	1
9205X4X4	5
9205X4X4-CT	EA
9205X4X4Z	5
9205X4X6	5
9205X4X8	1
9205X6X4	5
9205X6X6	5
9205X6X6-CT	300
9205X6X8	5
9205X8X12	2
9205X8X6	5
9205X8X8	5
9205X8X8-CT	175
9255X12X12	5
9255X12X16	1
9255X16X16	1
9255X20X20	1
9255X24X24	1
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9315X12X8	1
9315X14X12	1
9315X16X12	1
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9315X20X16	1
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9315X4X4	5
9315X4X6	5
9315X5X4	1
9315X6X4	2
9315X6X6	5
9315X6X8	5
9315X8X12	1

PART NUMBER	PKG QTY
9315X8X4	1
9315X8X6	5
9315X8X8	10
9355X12X12	2
9355X12X16	1
9355X12X8	1
9355X16X12	1
9355X16X16	1
9355X16X20	1
9355X20X20	1
9355X24X24	1
9355X2X2	5
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9365X16X16	1
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9365X4X6	5
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9365X6X8	5
9365X8X6	1
9365X8X8	2
9385X12X12	2
9385X12X16	1
9385X16X16	1
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9385X4X6	1
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9385X8X8	5
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9405X12X12LL	1
9405X12X16	1
9405X16X12	1
9405X16X16	1
9405X16X16-CT	10
9405X16X16LL	1
9405X16X20	1
9405X20X16	1
9405X20X20	1
9405X20X24	1
9405X24X24	1
9405X2X2	5
9405X2X2LL	1
9405X2X4	1
9405X32X32	1
9405X4X2	1
9405X4X4	5
9405X4X4-CT	250
9405X4X4LL	1
9405X4X6	10
9405X4X8	1
9405X6X12	1
9405X6X4	5
9405X6X6	5
9405X6X6-CT	150
9405X6X6LL	1
9405X6X8	5
9405X8X12	2
9405X8X16	1
9405X8X6	5
9405X8X8	5
9405X8X8-CT	100
9405X8X8LL	EA
9405X8X8Z	5
9406X12	5
9406X12X12X12	1
9406X12X12X16	1
9406X16X16X12	1
9406X16X16X16	1

PART NUMBER	PKG QTY
9406X20X20X20	1
9406X24X24X24	1
9406X2X2X2	1
9406X4X4X4	1
9406X4X4X6	1
9406X4X4X8	1
9406X6X6X6	1
9406X6X6X8	1
9406X8X8X12	1
9406X8X8X8	1
9435X4X4	1
9435X6X6	1
9435X8X8	1
9455X12X12	2
9455X12X16	1
9455X12X8	1
9455X16X12	1
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9455X8X8	5
9456X12X12X12	1
9456X12X12X16	1
9456X16X16X16	1
9456X20X20X20	1
9456X2X2X2	1
9456X4X4X4	1
9456X4X4X6	1
9456X6X6X6	1
9456X6X6X8	1
9456X8X8X12	1
9456X8X8X8	1
9515X10X12	1
9515X10X6	1
9515X10X8	5
9515X12X12	2
9515X12X8	1
9515X14X12	1
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9515X24X24	1
9515X32X32	1
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9515X8X12	1
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9705X12X12X12	1
9705X16X16X16	1
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9705X2X2X2	1
9705X4X4X4	1
9705X6X6X6	1
9705X8X8X8	1
A1900	100
A1900-20	20
A1901	100
A1901-20	20
A1902	100
A1902-20	20
A1903	100
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A1904	100
A1904-20	20
A1905	100
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A1906	100
A1906-20	20
A1907	100
A1907-20	20
A1908	100
A1908-20	20

PART NUMBER	PKG QTY
A1909	100
A1909-20	20
A1910	100
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A1911	60
A1911-20	20
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A4907	100
A4908	100
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A4925	1
A4926	1
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A4929	1
A4930	1
A555	10
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A555S	10
A556P	10
A557MCUX2X2	2
A557MCUX6X6	2
A557SCUX2X2	1
A557SCUX4X4	2
A557SCUX6X6	2
A557SCUXAXA	2
A55SCUX2.5A	2
A55SCUX2.5X2	2
A55SCUX4X2	2
A55SCUX4X4	2
A55SCUX6X4	2
A55SCUX6X6	2
A5953	6
A5962	6
A5969	1
A5975	6
A5984	6
A5987	6
A655	5
A655S	2
A660	2
A660S	2
A664	1
A6690	2
A6690S	1
A6754	1
A6754S	1
A6755	2
A6755S	1

PART NUMBER	PKG QTY
A6759	1
A6760	2
A6760P	2
A6760S	2
A6763	2
A6763S	1
A6764	1
A6764S	1
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A6765S	1
A6769	1
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A6770	2
A6774	1
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A735	1
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A9905	35
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AB-1400	1
AB-28	1
AB-45	1
AB-8	1
AB-8L	1
AB-8X	1
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AB-9L	1
AB-9X	1
AB-9XRED	1
ADCH-20	1
ADCH-24	1
ADCH-32	1
AI900	100
AI900-20	20
AI901	100
AI901-20	20
AI902	100
AI902-20	20
AI903	100
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AI904	100
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AI905	100
AI905-20	20
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AI908	100
AI908-20	20
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AI909-20	20
AI910	100

PART NUMBER	PKG QTY
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AI911	100
AI911-20	20
AI912	60
AI913	60
AI915	60
AI916	40
AI917	40
AI919	40
AMPH-20	1
AMPH-24	1
AMPH-32	1
B-10	1
B-1103	1
B-1104-1	1
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B-1116	1
B-1116Z	1
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B1369X10	1
B1369X10X6	1
B1369X12L	1
B1369X4	1
B1369X4X4	1
B1369X6	1
B1369X6L	1

PART NUMBER	PKG QTY
B1369X6X2	1
B1369X6X2L	1
B1369X6X6	EA
B1369X6X6Z	1
B1369X6X8	1
B1369X8	1
B1369X8L	1
B1369X8X4	1
B1369X8X8	1
B1370X6	1
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B7205X8X12	1
B7205X8X4	1
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PART NUMBER	PKG QTY
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B7217X16X12	1
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B72X4X4X4	1
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B72X6	1
B72X8	1
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PART NUMBER	PKG QTY
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B7367X4	1
B7367X4X4	1
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B7405X10X6	1
B7405X12	1
B7405X12X8	EA
B7405X14	1
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B7405X16X12	1
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B7455X6X6	1
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B7755X8X8X8	1
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B7805X4	1

PART NUMBER	PKG QTY
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B78C20-20F	1
B78N12-12F	1
B78N16-16F	1
B78N20-20F	1
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B7967X4	1
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BA-24	1
BA-24X	1
BA-28	1
BA-28X	1
BA-38	1
BA-38X	1
BA-48	1
BA-48F	1
BA-48X	1
BA-48XF	1
BA-56	1
BA-56X	1
BA-84	1
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BA-84X	1
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BD55021-2424-01	1
BD55066-0808-01	1
BD55068-0808-01	1
BE-12	1
BF-40	1
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BF-41	1
BF-42	1
BF-43	1
BK04	2
BK06	2
BK12	2
BK16	2
BK20	2
BK24	2
BK32	2
BL-456	1
BL-456X	1
BVHC24-24F	1
BVHN24-24F	1
C-1104-1	1
C-1104-2	1
C-1105	1
C-1106-1	1
C-1106-2	1
C-1108-1	1
C-1108-2	1
C-1110	1
C-1112	1

PART NUMBER	PKG QTY
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C-1116Z	1
C-1120Z	1
C-1304	1
C-1305	1
C-1306	1
C-1308	1
C-1310	1
C-1312	1
C-1316	1
C-1316Z	1
C-1320Z	1
C-15X	1
C-40X	1
C-5PS	1
C-5X	1
C-632X	1
C-63X	1
C3059X12	2
C3059X16	1
C3059X2	10
C3059X4	10
C3059X6	10
C3059X8	10
C3069X1	25
C3069X12	5
C3069X12-CT	140
C3069X12X8	5
C3069X16	2
C3069X16-CT	78
C3069X16X12	1
C3069X2	1
C3069X2-CT	1200
C3069X20	2
C3069X24	1
C3069X2X1	25
C3069X32	1
C3069X4	10
C3069X4-CT	500
C3069X4X2	EA
C3069X4Z	10
C3069X6	10
C3069X6-CT	375
C3069X6X2	1
C3069X6X4	5
C3069X8	10
C3069X8-CT	200
C3069X8X4	5
C3069X8X6	5
C3109X12X4	1
C3109X12X6	5
C3109X12X8	5
C3109X12X8-CT	230
C3109X16X12	5
C3109X16X12-CT	140
C3109X16X6	1
C3109X16X8	5
C3109X20X12	2
C3109X20X16	2
C3109X20X8	1
C3109X24X12	1
C3109X24X16	2
C3109X24X20	2
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C3109X6X4-CT	EA
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C3159X2-CT	1700
C3159X20	EA
C3159X20Z	1
C3159X24	EA
C3159X2Z	1
C3159X32	1
C3159X4	10

PART NUMBER	PKG QTY
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C3159X4Z	10
C3159X6	10
C3159X6-CT	EA
C3159X6Z	10
C3159X8	10
C3159X8-CT	EA
C3159X8Z	2
C3169X1	2
C3169X2	2
C3169X4	2
C3179X12	EA
C3179X12Z	1
C3179X16	1
C3179X2	1
C3179X4	1
C3179X6	1
C3179X8	EA
C3179X8Z	1
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C3269X6X4	1
C3269X6X6	5
C3269X6X8	2
C3269X8X4	1
C3269X8X6	1
C3269X8X8	1
C3309X12	5
C3309X12-CT	100
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C3309X16X12	1
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C3309X24	1
C3309X32	1
C3309X4	10
C3309X4-CT	400
C3309X4X2	2
C3309X6	10
C3309X6-CT	225
C3309X6X4	2
C3309X8	5
C3309X8-CT	150
C3309X8X4	1

PART NUMBER	PKG QTY
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C3359X12	1
C3359X16	2
C3359X2	5
C3359X20	1
C3359X24	1
C3359X32	1
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C3409X12X8	2
C3409X16	2
C3409X16-CT	35
C3409X2	5
C3409X2-CT	450
C3409X20	EA
C3409X24	EA
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C3409X4X2	EA
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C3409X6-CT	EA
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C3409X6X8	5
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C3409X8-CT	EA
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C35015X12X8	2
C35015X16X12	2
C35015X6X4	2
C35015X8X4	2
C35015X8X6	2
C3509X12	5
C3509X12-CT	EA
C3509X12X8	2
C3509X16	2
C3509X2	1
C3509X20	EA
C3509X24	1
C3509X32	1
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C3509X8X6	2
C35205X12	2
C35205X4	5
C35205X4X4	5
C35205X5	2
C35205X5X4	2
C35205X6	5
C35205X6X2	5
C35205X6X6	5
C35205X8X4	5
C35205X8X8	5
C35255X12	2
C35275X4	5
C35275X6	5
C3529X12	EA
C3529X12X8	EA
C3529X16	EA
C3529X16X12	2
C3529X2	EA
C3529X20	5
C3529X4	5
C3529X6	EA
C3529X6X4	5

PART NUMBER	PKG QTY
C3529X8	EA
C3529X8X6	5
C35305X4	5
C35315X4	5
C35315X5	2
C35315X6	5
C35325X10	2
C35325X12	5
C35325X16	2
C35325X20	2
C35325X4	2
C35325X6	5
C35325X8	5
C35405X16	1
C35405X20	1
C35405X24	1
C35405X4	5
C35405X4X4	5
C35405X6	5
C35405X6X6	5
C35405X8X4	2
C35405X8X8	5
C35455X4	5
C35506X6	5
C35515X4	5
C35515X6	5
C35525X4	2
C3559X12	1
C3559X16	EA
C3559X4	1
C3559X6	1
C3559X8	EA
C3569X10	EA
C3569X16	EA
C3569X6	EA
C3569X8	1
C35706X16	1
C35706X4	2
C35726X6	EA
C3609X12	1
C3609X16	1
C3609X2	1
C3609X4	EA
C3609X6	EA
C3609X8	5
C3709X12	5
C3709X12-CT	40
C3709X16	2
C3709X2	1
C3709X20	EA
C3709X24	5
C3709X4	5
C3709X4-CT	200
C3709X6	5
C3709X6-CT	125
C3709X8	5
C3709X8-CT	80
C3759X12	2
C3759X12-CT	40
C3759X16	1
C3759X2	EA
C3759X20	EA
C3759X2Z	5
C3759X4	5
C3759X4-CT	180
C3759X6	5
C3759X6-CT	120
C3759X8	5
C3759X8-CT	EA
C3805X12	EA
C3805X16	EA
C3805X4	EA
C3805X6	EA
C3805X8	1
C3959X12	EA
C3959X16	EA
C3959X2	EA
C3959X4	1
C3959X6	1
C3959X8	1
C5015X10X4	1
C5015X10X6	1
C5015X10X8	2
C5015X12X10	1
C5015X12X4	1
C5015X12X6	1
C5015X12X8	1

PART NUMBER	PKG QTY
C5015X14X10	1
C5015X14X12	1
C5015X14X6	1
C5015X14X8	1
C5015X16X10	1
C5015X16X12	2
C5015X16X14	1
C5015X16X8	1
C5015X20X12	1
C5015X20X16	1
C5015X24X20	1
C5015X32X24	1
C5015X6X4	2
C5015X8X4	1
C5015X8X6	1
C5105X10	10
C5105X12	1
C5105X12-CT	200
C5105X14	1
C5105X16	5
C5105X16-CT	100
C5105X2	1
C5105X20	1
C5105X20-CT	60
C5105X24	1
C5105X3	1
C5105X32	1
C5105X4	2
C5105X4-CT	1550
C5105X5	2
C5105X6	2
C5105X6-CT	950
C5105X8	2
C5105X8-CT	550
C5115X10	1
C5115X12	1
C5115X14	1
C5115X16	1
C5115X20	1
C5115X24	1
C5115X4	2
C5115X5	1
C5115X6	1
C5115X8	1
C5125X10	2
C5125X12	2
C5125X4	2
C5125X5	2
C5125X6	10
C5125X8	2
C5129X10	10
C5129X12	10
C5129X12-CT	175
C5129X16	5
C5129X16-CT	100
C5129X2	1
C5129X20	1
C5129X24	1
C5129X3	1
C5129X32	1
C5129X4	10
C5129X4-CT	1150
C5129X5	2
C5129X6	10
C5129X6-CT	800
C5129X8	10
C5129X8-CT	425
C5165X10	10
C5165X10X14MM	2
C5165X10X15MM	2
C5165X10X16MM	2
C5165X12	5
C5165X12-CT	750
C5165X12X18MM	2
C5165X14	1
C5165X14X20MM	2
C5165X14X22MM	2
C5165X16	5
C5165X16-CT	550
C5165X16X25MM	2
C5165X2	10
C5165X20	1
C5165X20X30MM	2
C5165X20X32MM	2
C5165X24	1
C5165X24X38MM	1
C5165X3	10

PART NUMBER	PKG QTY
C5165X32	1
C5165X4	10
C5165X4-CT	8500
C5165X4X6MM	1
C5165X5	10
C5165X5X8MM	1
C5165X6	10
C5165X6-CT	3500
C5165X6X10MM	1
C5165X8	10
C5165X8-CT	1800
C5165X8X12MM	1
C5205X10	2
C5205X10-CT	175
C5205X10X12	1
C5205X10X6	1
C5205X12	2
C5205X12-CT	110
C5205X12X16	2
C5205X12X8	EA
C5205X12Z	1
C5205X14	1
C5205X16	1
C5205X16-CT	70
C5205X16X12	EA
C5205X16X12Z	2
C5205X16X20	EA
C5205X16Z	2
C5205X2	2
C5205X20	2
C5205X20-CT	46
C5205X20X16	EA
C5205X20Z	1
C5205X24	1
C5205X24X20	1
C5205X3	2
C5205X32	1
C5205X4	4
C5205X4-CT	900
C5205X4X4	2
C5205X4X4-CT	EA
C5205X4X4Z	2
C5205X4X6	EA
C5205X4X6Z	2
C5205X4X8	EA
C5205X4Z	2
C5205X5	2
C5205X5X4	2
C5205X5X6	2
C5205X6	4
C5205X6-CT	550
C5205X6X2	2
C5205X6X6	4
C5205X6X6-CT	375
C5205X6X8	10
C5205X8	4
C5205X8-CT	300
C5205X8X12	EA
C5205X8X12Z	2
C5205X8X4	2
C5205X8X8	4
C5205X8X8-CT	175
C5216X10X10	1
C5216X12X12	1
C5216X16X12	1
C5216X16X16	1
C5216X20X20	1
C5216X24X24	1
C5216X32X32	1
C5216X4X4	1
C5216X4X6	1
C5216X6X6	1
C5216X6X8	1
C5216X8X6	5
C5216X8X8	1
C5229X10	5
C5229X10-CT	200
C5229X12	5
C5229X12-CT	110
C5229X14	1
C5229X16	5
C5229X20	1
C5229X24	1
C5229X32	1
C5229X4	10
C5229X4-CT	1050
C5229X5	2

PART NUMBER	PKG QTY
C5229X6	10
C5229X6-CT	600
C5229X8	10
C5229X8-CT	300
C5255X10	2
C5255X10X6	1
C5255X12	1
C5255X12X8	1
C5255X14	1
C5255X16	2
C5255X2	1
C5255X20	1
C5255X24	1
C5255X3	2
C5255X32	1
C5255X4	1
C5255X4X4	1
C5255X5	1
C5255X5X4	1
C5255X6	1
C5255X6X6	1
C5255X8	1
C5255X8X8	1
C5256X12	1
C5256X16	1
C5256X4X4	1
C5256X6X6	1
C5256X8X8	1
C5275X10	1
C5275X12	2
C5275X16	2
C5275X4	1
C5275X6	1
C5275X8	1
C5305X10	1
C5305X10X8	1
C5305X12	5
C5305X12X10	1
C5305X12X8	1
C5305X14	1
C5305X16	2
C5305X16X12	1
C5305X2	1
C5305X20	1
C5305X24	1
C5305X3	1
C5305X32	1
C5305X4	10
C5305X4-CT	275
C5305X5	1
C5305X5X4	1
C5305X6	10
C5305X6X4	1
C5305X6X5	1
C5305X8	10
C5305X8-CT	300
C5305X8X6	1
C5306X10	1
C5306X12	1
C5306X16	1
C5306X20	1
C5306X24	1
C5306X4	1
C5306X5	1
C5306X6	1
C5306X8	1
C5314X10X10	1
C5314X12X12	1
C5314X16X16	1
C5314X20X20	1
C5314X24X24	1
C5314X32X32	1
C5314X4X4	1
C5314X6X6	1
C5314X8X8	1
C5315X10	5
C5315X10X12	2
C5315X10X16	1
C5315X10X8	2
C5315X12	5
C5315X12-CT	80
C5315X12X10	2
C5315X12X14	1
C5315X12X16	2
C5315X12X20	1
C5315X12X8	1
C5315X14	1

PART NUMBER	PKG QTY
C5315X16	2
C5315X16-CT	70
C5315X16X10	1
C5315X16X12	2
C5315X16X20	1
C5315X2	1
C5315X20	1
C5315X20X16	1
C5315X20X24	1
C5315X24	1
C5315X24X20	1
C5315X24X32	1
C5315X3	1
C5315X32	1
C5315X32X24	1
C5315X4	10
C5315X4-CT	700
C5315X4X5	1
C5315X4X6	10
C5315X4X8	1
C5315X5	1
C5315X5X4	1
C5315X5X6	5
C5315X6	10
C5315X6-CT	475
C5315X6X10	2
C5315X6X4	1
C5315X6X5	1
C5315X6X8	5
C5315X6X8-CT	270
C5315X8	1
C5315X8-CT	250
C5315X8X10	5
C5315X8X10-CT	170
C5315X8X12	5
C5315X8X6	1
C5316X10	1
C5316X12	1
C5316X16	1
C5316X20	1
C5316X4	2
C5316X6	1
C5316X8	1
C5316X8X6	5
C5325X10	1
C5325X12	2
C5325X12BN	1
C5325X16	1
C5325X20	1
C5325X3	1
C5325X4	1
C5325X5	1
C5325X6	5
C5325X8	5
C5355X10	EA
C5355X10X12	1
C5355X10X6	1
C5355X12	EA
C5355X12X16	2
C5355X12X8	EA
C5355X12X8Z	2
C5355X16	2
C5355X16X12	2
C5355X2	1
C5355X20	EA
C5355X20Z	1
C5355X24	1
C5355X3	EA
C5355X32	5
C5355X4	5
C5355X4X4	5
C5355X5	5
C5355X5X4	1
C5355X6	5
C5355X6X2	1
C5355X6X6	1
C5355X6X8	1
C5355X8	5
C5355X8X4	5
C5355X8X8	5
C5356X10	2
C5356X12	2
C5356X14	1
C5356X16	EA
C5356X20	EA
C5356X24	5
C5356X4	5

PART NUMBER	PKG QTY
C5356X5	1
C5356X6	5
C5356X8	5
C5365X10	EA
C5365X10X12	EA
C5365X10X8	2
C5365X12	2
C5365X12X10	EA
C5365X12X16	EA
C5365X14	1
C5365X16	EA
C5365X16X12	1
C5365X20	1
C5365X4	5
C5365X5	1
C5365X6	EA
C5365X6X8	5
C5365X8	5
C5365X8X10	EA
C5365X8X6	EA
C5375X10	EA
C5375X12	EA
C5375X16	EA
C5375X4	EA
C5375X5	EA
C5375X6	EA
C5375X8	1
C5405X10	1
C5405X10X12	1
C5405X10X6	1
C5405X12	5
C5405X12-CT	EA
C5405X12X16	5
C5405X12X8	5
C5405X16	2
C5405X16-CT	40
C5405X16X12	EA
C5405X16X20	EA
C5405X16Z	5
C5405X2	5
C5405X20	1
C5405X20-CT	28
C5405X20X16	EA
C5405X20X24	1
C5405X24	EA
C5405X24X20	5
C5405X3	5
C5405X32	1
C5405X4	10
C5405X4-CT	800
C5405X4X4	5
C5405X4X4-CT	EA
C5405X4X6	EA
C5405X4X8	1
C5405X5	1
C5405X5X4	EA
C5405X5X6	2
C5405X6	2
C5405X6-CT	EA
C5405X6X12	1
C5405X6X2	1
C5405X6X6	2
C5405X6X6-CT	200
C5405X6X8	5
C5405X6X8-CT	EA
C5405X6Z	2
C5405X8	2
C5405X8-CT	200
C5405X8X12	5
C5405X8X12-CT	80
C5405X8X4	5
C5405X8X8	2
C5405X8X8-CT	EA
C5406X10	EA
C5406X12	EA
C5406X16	EA
C5406X20	EA
C5406X4	EA
C5406X6	EA
C5406X8	EA
C5425X10	1
C5425X12	EA
C5425X16	EA
C5425X20	EA
C5425X4	EA
C5425X4X4	1
C5425X6	EA

PART NUMBER	PKG QTY
C5425X6X6	EA
C5425X8	EA
C5425X8X8	EA
C5435X10	EA
C5435X12	EA
C5435X16	EA
C5435X20	EA
C5435X4	EA
C5435X4X4	EA
C5435X5X4	EA
C5435X6	EA
C5435X6X6	EA
C5435X8	EA
C5435X8X8	1
C5455X10	1
C5455X12	1
C5455X12X8	1
C5455X14	1
C5455X16	EA
C5455X20	EA
C5455X24	EA
C5455X32	1
C5455X4	EA
C5455X4X4	EA
C5455X5	EA
C5455X5X4	1
C5455X6	1
C5455X6X2	1
C5455X6X6	1
C5455X8	1
C5455X8X4	1
C5455X8X8	1
C5505X10	1
C5505X12	2
C5505X16	EA
C5505X20	EA
C5505X24	1
C5505X4	EA
C5505X5	1
C5505X6	1
C5505X8	5
C5506X10	5
C5506X10-CT	100
C5506X12	5
C5506X12-CT	EA
C5506X14	2
C5506X16	2
C5506X16-CT	40
C5506X20	EA
C5506X24	EA
C5506X32	5
C5506X4	5
C5506X4-CT	540
C5506X5	1
C5506X6	10
C5506X6-CT	300
C5506X8	5
C5506X8-CT	150
C5515X10	EA
C5515X10LL	EA
C5515X10X12	EA
C5515X10X8	5
C5515X12	5
C5515X12-CT	EA
C5515X12L	EA
C5515X12LL	2
C5515X12X10	EA
C5515X12X16	EA
C5515X12X8	2
C5515X14	1
C5515X16	2
C5515X16-CT	40
C5515X16X12	EA
C5515X16X14	EA
C5515X16X20	1
C5515X20	EA
C5515X20X16	1
C5515X24	EA
C5515X24X20	5
C5515X3	1
C5515X4	5
C5515X4-CT	EA
C5515X4X5	EA
C5515X4X6	5
C5515X5	EA
C5515X5X4	EA
C5515X5X6	10

PART NUMBER	PKG QTY
C5515X6	10
C5515X6-CT	EA
C5515X6L	EA
C5515X6LL	EA
C5515X6X10	EA
C5515X6X4	EA
C5515X6X5	5
C5515X6X8	5
C5515X6X8-CT	150
C5515X8	1
C5515X8-CT	EA
C5515X8L	EA
C5515X8LL	5
C5515X8X10	EA
C5515X8X12	5
C5515X8X6	EA
C5525X10	2
C5525X12	2
C5525X16	1
C5525X20	1
C5525X4	EA
C5525X5	5
C5525X6	5
C5525X8	5
C5605X10	1
C5605X12	1
C5605X16	1
C5605X4	5
C5605X4X4X4	1
C5605X5	1
C5605X6	EA
C5605X6X6X6	1
C5605X8	EA
C5605X8X8X8	1
C5655X10	1
C5655X12	EA
C5655X16	EA
C5655X32	1
C5655X4	EA
C5655X4X4X4	EA
C5655X6	EA
C5655X6X6X6	EA
C5655X8	EA
C5655X8X8X8	1
C5705X10	1
C5705X12	2
C5705X14	1
C5705X16	1
C5705X2	1
C5705X20	1
C5705X24	1
C5705X3	1
C5705X4	5
C5705X5	1
C5705X6	5
C5705X8	5
C5705X8-CT	120
C5706X10	2
C5706X12	2
C5706X12-CT	50
C5706X16	1
C5706X20	1
C5706X4	5
C5706X4-CT	400
C5706X5	5
C5706X6	5
C5706X6-CT	230
C5706X8	5
C5706X8-CT	EA
C5707X10	1
C5707X12	1
C5707X16	EA
C5707X20	EA
C5707X4	1
C5707X6	EA
C5707X8	1
C5715X10	1
C5715X12	2
C5715X16	EA
C5715X20	2
C5715X4	2
C5715X6	1
C5715X8	1
C5716X10	1
C5716X12	1
C5716X16	1
C5716X20	1

PART NUMBER	PKG QTY
C5716X4	1
C5716X5	1
C5716X6	2
C5716X8	EA
C5725X10	EA
C5725X12	EA
C5725X16	EA
C5725X4	EA
C5725X6	EA
C5725X8	2
C5726X6	EA
C5726X8	1
C5755X10	1
C5755X12	1
C5755X16	EA
C5755X20	1
C5755X4	EA
C5755X4X4X4	EA
C5755X6	EA
C5755X6X6X6	2
C5755X8	EA
C5755X8X8X8	EA
C5805X12	EA
C5805X16	EA
C5805X4	EA
C5805X6	1
C5880X4	1
C5880X5	1
C5880X6	1
C5880X8	1
C5924X10	1
C5924X12	1
C5924X14	1
C5924X16	1
C5924X2	1
C5924X20	1
C5924X24	1
C5924X3	1
C5924X32	1
C5924X4	10
C5924X5	10
C5924X6	10
C5924X8	EA
C5955X10	EA
C5955X6	EA
C5955X8	1
C9200	1
C9240	1
CA-10X	1
CA-130	1
CA-230	1
CA-35	1
CA-40	1
CA-40-60A	1
CA-40-CO	1
CA-40NH	1
CA-46	1
CA-46X	1
CA-50	1
CA-50-60A	1
CA-50-CO	1
CA-50-NH	1
CA-631	1
CA-631CO	1
CA-632	1
CA-632CO	1
CB-63X	1
CD-15	1
CD-15D	3
CF15-12-304	1
CF15-12-CS	1
CF15-16-304	1
CF15-16-CS	1
CF15-20-304	1
CF15-20-CS	1
CF15-24-304	1
CF15-24-CS	1
CF15-32-304	1
CF15-32-CS	1
CF15-8-304	1
CF15-8-CS	1
CF30-12-304	1
CF30-12-316	1
CF30-12-CS	1
CF30-16-304	1
CF30-16-316	1
CF30-16-CS	1

PART NUMBER	PKG QTY
CF30-20-304	1
CF30-20-316	1
CF30-20-CS	1
CF30-24-304	1
CF30-24-316	1
CF30-24-CS	1
CF30-32-304	1
CF30-32-316	1
CF30-32-CS	1
CF30-8-304	1
CF30-8-316	1
CF30-8-CS	1
CK04	1
CK06	1
CK08	1
CK12	1
CK16	1
CK20	1
CK24	1
CK32	1
CL-16-1	1
CL-16-2	1
CL-16-3	1
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DC-121	1
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E-705-0360	1
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E-912TW-2400	1
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EH01804-200R	EA
EH01806-100R	EA
EH04002-500R	EA
EH04004-200R	EA
EH04903-300R	EA
EH04904-100	EA
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EH04906-100	EA
EH08904-100	EA
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EJ3533-07-1616S	1
EJ3534-01-0404S	1
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EJ3534-03-0608S	1
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EJ3809-07-1010S	1
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ET1000-016	1
ET1000-017	1
ET1000-018	1
ET1000AR-001	1
ET1000C-0001	1
ET1000C-0003	EA
ET1000C-0004	0
ET1000C-0006	1
ET1000C-0009	1
ET1000C-0010	1
ET1000C-0011	1
ET1000C-0012	EA
ET1000DC-M065S	0
ET1000DC-M095S	EA
ET1000DC-M215S	0
ET1000DC-M250S	1
ET1000DC-M295S	1
ET1000DC-M320S	1
ET1000DC-M390S	1
ET1000DC-M430S	1
ET1000DC-M475S	1
ET1000DC-M500S	1
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ET1000PK-002	1
ET1000PK-003	1
ET1000PK-004	1
ET1000SR-M100A	1
ET1000SR-M115D	1
ET1000SR-M190D	1
ET1000SR-M215A	1
ET1000SR-M265D	1
ET1000SR-M315A	1
ET1000SR-M395D	1
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ET400-003	1
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ET4000-003	1
ET4000-004	1
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ET4000AR-002	1
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ET4000C-0002	1
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ET4000SR-M215A	1
ET4000SR-M215B	1
ET4000SR-M345A	1
ET4000SR-M405A	1
ET4000SR-M560A	1
ET4000TP-0001	1
ET4000TP-0003	1
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ET4001-004	EA
ET4001-006	EA
ET4001-010	EA
ET4001-011	EA
ET4001-012	EA
ET4001-013	EA
ET4001-014	1
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ET400DC-M230S	1
ET400DC-M245S	1
ET400DC-M295S	1
ET400DC-M375S	1
ET400SR-001	1
ET400SR-002	1
ET400SR-003	1
ET400SR-M150A	1
ET400SR-M235A	1
ET400TP-0001	1
ET4010-001	EA
ET4020-006	EA
ET4020-115	EA
ET4020-230	EA
ET4020TP-0003	EA
ET4040-007	EA
ET4040-008	EA
ET4040-009	EA

PART NUMBER	PKG QTY
ET4040-115	EA
ET4040-230	EA
ET4040-23050	EA
ET4040-23060	EA
ET4040DC-M210S	EA
ET4040DC-M280S	EA
ET4040DC-M320S	EA
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ET4040DC-M465S	EA
ET4040DC-M520S	EA
ET4040DC-M570S	EA
ET4040DC-M690S	EA
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ET420-002	1
ET420-003	EA
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ET420SR-M495A	1
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ET460TP-0001	1
ET480-001	1
ET480-002	1
ET480-003	1
ET480-004	1
ET480TP-0001	1
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FA-135	1
FA-135-10B	1
FA-135-CO	1
FA-135NH	1
FA-15	1
FA-15-80	1
FA-15-CO	1
FA-15NH	1
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FA-200-CO	1
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FC2326-08-259	1
FC2326-10-259	1
FC2326-12-259	1
FC2326-16-259	1
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FC2875-05S	1

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FC2875-08S	1
FC2875-10S	1
FC2875-12S	1
FC2875-16S	1
FC2875-20S	EA
FC3568-06S	0
FC3568-08-186	1
FC3568-10-186	1
FC3568-10S	EA
FC3571-08S	0
FC3571-10-186	1
FC3571-10S	1
FC3571-12S	1
FC3572-06S	1
FC3572-06T	1
FC3572-08S	1
FC9062-0404S	1
FC9062-0505S	1
FC9062-0506S	1
FC9062-0606S	1
FC9062-0808S	1
FC9062-1010S	1
FC9062-1212S	1
FC9063-0404S	1
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PART NUMBER	PKG QTY
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FD14-4003-10-06	1
FD15-1000-02	1
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FD15-1002-04	1
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FD15-1025-04	1
FD15-1026-04	EA
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FD31-1001-06-06	EA
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FD35-1002-06-06	1
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FD35-1008-06-06	1
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FD45-1001-04-04	2
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FD45-1001-12-12	2
FD45-1001-16-16	2
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FH-72X	EA
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FITT. #32	EA
FITT. #33	EA
FITT. #34	EA
FITT. #35	EA
FITT. #40	EA
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FJ5986-1616S	1
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FJ5994-08-1216S	1
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FJ7938-1616S	1
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G5622-6-6	1
G5622-8-10	1
G5623-12-12	1
G5623-16-16	1
G5623-4-4	1
G5623-6-6	1
G5623-8-10	1
GA23911-10-10	1
GA23911-10-12	1
GA23911-12-12	1

PART NUMBER	PKG QTY
GA23911-6-6	1
GA23911-8-8	1
GA23912-10-8	1
GA23912-12-12	EA
GG110-NP04-04	0
GH100-10-50	1
GH100-12-50	1
GH100-6-50	1
GH100-8-50	1
GH134-10WR200	1
GH134-10WR50	50
GH134-10WRL	550
GH134-12WR200	1
GH134-12WR50	50
GH134-12WRL	367
GH134-16WR250	250
GH134-16WR50	50
GH134-6WR200	1
GH134-6WR50	50
GH134-6WRL	560
GH134-8WR200	1
GH134-8WR50	50
GH134-8WRL	575
H003408-100	1
H003412	1
H003412-100	1
H003412-150	1
H003416	1
H003416-100	1
H003416-150	1
H003420	1
H003420-100	1
H003420-150	1
H003424	1
H003424-100	1
H003424-150	1
H003432	1
H003432-100	1
H003432-150	1
H00904-250R	250
H00904-25R	25
H00904-50R	50
H00905-250R	250
H00905-25R	25
H00905-50R	50
H00906-250R	250
H00906-25R	25
H00906-50R	50
H00908	50
H00908-250R	250
H00908-25R	1
H010504RD	50
H010504RD-600R	600
H010506RD	50
H010506RD-600R	600
H010508RD	50
H010508RD-600R	EA
H010510RD-50	600
H010510RD-600R	600
H010512BK	50
H010512BK-250	250
H010512BK-600R	600
H010512RD	EA
H010512RD-100	250
H010512RD-250	250
H010512RD-600R	EA
H010512RD-75	50
H010516BK	50
H010516BK-400R	1
H010516RD	50
H010516RD-400R	400
H010520BK-300R	EA
H010524BK-100	300
H010524BK-300R	300
H010604BK-600R	EA
H010604RD	600
H010604RD-600R	EA
H010606BK-50	600
H010606BK-600R	600
H010606RD	EA
H010606RD-300	600
H010606RD-600R	EA
H010606RD-600R	C600
H010608BK-600R	EA
H010608GY-600R	50
H010608RD	EA
H010608RD-300	600

PART NUMBER	PKG QTY
H010608RD-600R	EA
H010608RD-600R	CEA
H010610BK-(5)50	600
H010610BK-600R	600
H010612RD-250	250
H010612RD-600R	600
H01704	50
H01704-250R	250
H01706	50
H01706-250R	250
H01708	50
H01708-250R	250
H01712	50
H01712-250R	250
H01716	50
H01716-250R	250
H01720	50
H01720-100	100
H03912	50
H03912-100	100
H03912-150	150
H03916	50
H03916-100	100
H03916-150	150
H03920	50
H03920-100	100
H03920-150	150
H03924	50
H03924-100	100
H03924-150	150
H03932	50
H03932-100	100
H03932-150	150
H039H12	50
H039H16	50
H039H20	50
H039H24	50
H039H32	50
H04803	1
H05703-100R	100
H05703-25R	25
H05704-100R	100
H05704-250R	1
H05704-25R	25
H05704-500R	1
H05705-100R	100
H05705-25R	25
H05705-500R	1
H05706-250R	1
H05706-25R	25
H05706-400R	1
H05706-50R	50
H05707-25R	25
H05707-50R	50
H05904	50
H05904-250R	250
H05905	50
H05905-250R	250
H05906	50
H05906-250R	250
H05908	50
H05908-250R	250
H05910	50
H05910-250R	250
H05912	50
H05912-250R	250
H05916	50
H05916-250R	250
H06904	50
H06904-250R	250
H06905	50
H06905-250R	250
H06906	50
H06906-250R	250
H06908	50
H06908-250R	250
H06910	50
H06910-250R	250
H06912	50
H06912-250R	250
H06916	50
H06916-250R	250
H06920	50
H06920-150	150
H06924	50
H06924-100	100
H06932	50

PART NUMBER	PKG QTY
H06932-100	100
H06940	50
H06948	50
H07704-10	10
H07704-P	1
H07705-10	10
H07705-300R	300
H07705-P	1
H07706-10	10
H07706-290R	1
H07706-P	1
H08108	1
H10004	50
H10004-250R	EA
H10004-500R	50
H10005	50
H10005-250R	250
H10006	50
H10006-250R	EA
H10006-370R	50
H10008	50
H10008-250R	250
H10008BU-250	1
H10010	50
H10010-250R	250
H10012	EA
H10012-200R	250
H10012-250R	250
H10104	50
H10104-250R	250
H10104-500R	500
H10105	50
H10105-250R	250
H10106	50
H10106-250R	250
H10108	50
H10108-250R	250
H10110	50
H10110-250R	250
H10112	50
H10112-250R	250
H10404	50
H10404-250R	250
H10404-500R	500
H10406	50
H10406-250R	250
H10406-500R	500
H10408	50
H10408-250R	250
H10408-500R	500
H10410	50
H10410-250R	250
H10412	50
H10412-250R	250
H10416	50
H10416-250R	250
H10420	50
H10420-100	100
H10504	50
H10504-600R	600
H10504RD	50
H10504RD-600R	600
H10506	50
H10506-600R	600
H10506RD	50
H10506RD-600R	600
H10508	50
H10508-600R	600
H10508RD	50
H10508RD-600R	600
H10512	50
H10512-600R	600
H10512RD	50
H10512RD-600R	600
H10516	50
H10516-300R	300
H10516RD	50
H11404	50
H11404-250R	250
H11404-500R	500
H11406	50
H11406-250R	250
H11406-500R	500
H11408	50
H11408-250R	250
H11408-500R	500
H11504	50

PART NUMBER	PKG QTY
H11504-550R	550
H11505	50
H11505-550R	550
H11506	50
H11506-550R	550
H11508	50
H11508-550R	EA
H11508RD-132	50
H11512	50
H11512-550R	550
H11516	50
H11516-300R	300
H11520	50
H11520-300R	300
H11524	50
H11524-300R	300
H11604-550R	550
H11605-550R	550
H11606-550R	550
H11608-550R	550
H12310-320R	1
H13004-100	100
H13006-100	100
H14504	50
H14504-250R	250
H14504-500R	500
H14506	50
H14506-250R	250
H14506-500R	500
H14508	50
H14508-250R	250
H14508-500R	500
H14510	50
H14510-250R	250
H14512	50
H14512-250R	250
H14516	50
H14516-250R	250
H145R04	50
H145R04-250R	250
H145R06	50
H145R06-250R	250
H145R08	50
H145R08-250R	250
H145R10	50
H145R10-250R	250
H145R12	50
H145R12-250R	250
H145R16	50
H145R16-250R	250
H14604	50
H14604-250R	250
H14606	50
H14606-250R	250
H14608	50
H14608-250R	EA
H157108-100	1
H157112	50
H157112-100	100
H157116	50
H157116-100	100
H160305-500R	EA
H160406-200R	EA
H160608-125R	50
H16604	50
H16604-250R	250
H16605	50
H16605-250R	250
H16606	50
H16606-250R	250
H16608	50
H16608-250R	250
H16610	50
H16610-250R	250
H16612	50
H16612-250R	250
H16616	50
H16616-250R	250
H16620	50
H16904	50
H16904-250R	250
H16905	50
H16905-250R	250
H16906	50
H16906-250R	250
H16908	50
H16908-250R	250

PART NUMBER	PKG QTY
H16910	50
H16910-250R	250
H16912	50
H16912-250R	250
H16916	50
H16916-250R	250
H16920	50
H16920-150	150
H16924	50
H16924-100	100
H16932	50
H171910-50C	50
H171912-50C	50
H177604-500R	500
H177606-500R	500
H177608-500R	500
H177610-500R	500
H177612-500R	EA
H177616	300
H177616-300R	300
H177620-300R	300
H177624-300R	EA
H177624RD-100	500
H177704-500R	500
H177705-500R	500
H177706-500R	500
H177708-500R	500
H181204-500R	500
H181206-500R	500
H181208-500R	500
H181210-500R	500
H181212-500R	500
H181216-300R	300
H181220-300R	300
H181224-300R	300
H19004	50
H19004-250R	250
H19004-500R	500
H19006	50
H19006-250R	250
H19006-500R	500
H19008	50
H19008-250R	250
H19008-500R	500
H19010	50
H19010-250R	250
H19012	50
H19012-250R	250
H19016	50
H19016-250R	250
H19020	50
H19020-100	100
H19024	50
H19024-100	100
H19032	50
H190H04	50
H190H04-250R	250
H190H06	50
H190H06-250R	250
H190H08	50
H190H08-250R	250
H190H10	50
H190H10-250R	250
H190H12	50
H190H12-250R	250
H190H16	50
H190H16-250R	250
H190H20	50
H198104RD-600R	600
H198105RD-600R	600
H198106RD-600R	600
H198108RD-600R	600
H198112RD-250	250
H198112RD-600R	EA
H198204GN-600R	600
H198204RD-600R	600
H198205RD-600R	600
H198206BK-600R	600
H198206GN-600R	EA
H198206RD-(6)50	EA
H198206RD-25	600
H198206RD-600R	EA
H198206YW-600R	600
H198208BK-600R	600
H198208GN-600R	600
H198208RD-600R	600
H198208YW-600R	EA

PART NUMBER	PKG QTY
H198210RD-50	600
H198210RD-600R	EA
H198212BK-50	600
H198212BK-600R	EA
H198212BU-250	EA
H198212BU-600R	1
H198212GN-250	1
H198212GN-600R	600
H198212RD-250	250
H198212RD-600R	600
H198212YW-600R	EA
H198216GN-350R	400
H198216GN-400R	400
H198216RD-400R	450
H198710	50
H198710-50C	50
H198710-600R	600
H198712	1
H198712-50C	1
H198712-600R	1
H20104	50
H20104-500R	500
H20104BK	50
H20104BK-250R	250
H20104BK-500R	EA
H20104BK-600R	50
H20104BU	EA
H20104BU-100	250
H20104BU-250R	250
H20104BU-500R	EA
H20104BU-50TW	50
H20104GN	50
H20104GN-250R	250
H20104GN-500R	500
H20104GY	EA
H20104GY-100TW	250
H20104GY-250R	250
H20104GY-500R	500
H20104RD	50
H20104RD-250R	250
H20104RD-500R	500
H20104YW	50
H20104YW-250R	250
H20104YW-500R	EA
H20105GY-250R	EA
H20105GY-500R	50
H20106	50
H20106-500R	250
H20106BK	EA
H20106BK-00534	EA
H20106BK-100R	250
H20106BK-250R	EA
H20106BK-400	EA
H20106BK-450R	500
H20106BK-500R	500
H20106BU	EA
H20106BU-100	250
H20106BU-250R	250
H20106BU-500R	EA
H20106BU-50TW	50
H20106GN	50
H20106GN-250R	250
H20106GN-500R	500
H20106GY	EA
H20106GY-100TW	250
H20106GY-250R	250
H20106GY-500R	500
H20106RD	50
H20106RD-250R	250
H20106RD-500R	500
H20106YW	EA
H20106YW-100	250
H20106YW-250R	250
H20106YW-500R	500
H20108	50
H20108-500R	250
H20108BK	50
H20108BK-250R	EA
H20108BK-300R	500
H20108BK-500R	500
H20108BU	50
H20108BU-250R	250
H20108BU-500R	500
H20108GN	50
H20108GN-250R	250
H20108GN-500R	1
H20108GY	50

B29

PART NUMBER	PKG QTY
H20108GY-250R	250
H20108GY-500R	500
H20108RD	50
H20108RD-250R	250
H20108RD-500R	500
H20108YW	50
H20108YW-250R	250
H20110-250R	250
H20110BK	50
H20110BK-00187	EA
H20110BK-00776	EA
H20110BK-250R	250
H20110BU	50
H20110BU-250R	250
H20110GN	50
H20110GN-250R	250
H20110GY	50
H20110GY-250R	250
H20110RD	50
H20110RD-250R	250
H20110YW	50
H20110YW-250R	250
H20112-250R	250
H20112BK	EA
H20112BK-200R	250
H20112BK-250R	250
H20112BU	50
H20112BU-250R	250
H20112GN	50
H20112GN-250R	250
H20112GY	50
H20112GY-250R	250
H20112RD	50
H20112RD-250R	250
H20112YW	50
H20112YW-250R	250
H20904-500R	500
H20905-500R	500
H20906-250R	250
H20908-250R	250
H21304	50
H21304-250R	250
H21305	50
H21305-250R	250
H21306	50
H21306-250R	250
H21308	50
H21308-250R	250
H21310	50
H21310-250R	250
H21310-400R	1
H21312	50
H21312-250R	250
H21316	50
H21316-250R	250
H22610BK-250	1
H22904	50
H22904-250R	250
H22904-R	1
H22906	50
H22906-250R	250
H22906-R	1
H22908	50
H22908-250R	250
H22908-R	1
H22910	50
H22910-250R	250
H22910-R	1
H22912	50
H22912-250R	250
H22916	50
H22916-250R	250
H23904	50
H23904-250R	250
H23906	50
H23906-250R	250
H23908	50
H23908-250R	250
H23910	50
H23910-250R	250
H23912	50
H23912-250R	250
H23916	50
H23916-250R	250
H23920	50
H23920-250R	1
H24303	50

PART NUMBER	PKG QTY
H24303-150R	150
H24304	50
H24304-100R	100
H24305	50
H24305-100R	100
H24306	50
H24306-100R	100
H24308	50
H24308-100R	100
H24312	50
H24316	50
H24504	50
H24504-250R	250
H24504-500R	500
H24506	50
H24506-250R	250
H24506-500R	500
H24508	50
H24508-250R	250
H24508-500R	500
H24510	50
H24510-250R	250
H24512	50
H24512-250R	250
H24516	50
H24516-250R	250
H24520	50
H24520-100	1
H24520-150	150
H245L04	50
H245L04-250R	1
H245L06	50
H245L06-250R	250
H245L08	50
H245L08-250R	250
H245L10	50
H245L10-250R	250
H245L12	50
H245L12-250R	250
H245L16	50
H245L16-250R	250
H245L20	50
H245L20-150	150
H245L24	EA
H245L24-100	100
H245L32	50
H26504	50
H26504-600R	600
H26504BU	EA
H26504BU-125R	600
H26504BU-600R	600
H26504RD-600R	600
H26506	50
H26506-600R	600
H26506BU	50
H26506BU-600R	EA
H26506BU-75R	1
H26506GN-600R	EA
H26506GY-600R	0
H26506RD-600R	EA
H26506YW-600R	0
H26508	50
H26508-500R	500
H26508BU	50
H26508BU-500R	500
H26508RD-500R	500
H26510BU-500R	500
H26512	50
H26512-500R	500
H26512BU	50
H26512BU-500R	500
H26512RD-500R	EA
H26512WH-500R	0
H26516	50
H26516-200R	200
H26516BU	50
H26516BU-200R	200
H26516RD-200R	200
H26520BU-100	100
H26520RD-100	100
H26524BU-100	100
H26524RD-100	100
H26532BU-100	100
H26532RD-100	100
H27503RD-600R	EA
H27504	50
H27504-600R	600

PART NUMBER	PKG QTY
H27504BK-600R	0
H27504BU-600R	600
H27504RD	50
H27504RD-600R	600
H27504YW-600R	600
H27505RD-600R	600
H27506	50
H27506-600R	600
H27506BU-600R	600
H27506RD	50
H27506RD-600R	600
H27506YW-600R	600
H27508	50
H27508-500R	500
H27508BU-500R	500
H27508RD	50
H27508RD-500R	EA
H27508RD-600R	0
H27508YW-500R	500
H27510RD-500R	500
H27512	50
H27512-500R	500
H27512RD	50
H27512RD-500R	500
H27516	50
H27516-200R	200
H27516RD	50
H27516RD-200R	200
H27520RD-100	100
H27524RD-100	100
H27532RD-100	100
H27703	50
H27704	50
H27705	50
H27706	50
H27708	50
H27712	50
H27716	50
H28004	50
H28004-250R	250
H28004-500R	500
H28006	50
H28006-250R	250
H28006-500R	500
H28008	50
H28008-250R	250
H28008-500R	500
H28010	50
H28010-250R	250
H28012	50
H28012-250R	250
H28016	50
H28016-250R	250
H28020	50
H28020-150	150
H28024	50
H28024-150	150
H28032	50
H28503-300R	300
H28504	EA
H28504-125R	300
H28504-300R	300
H28505-300R	300
H28506	50
H28506-300R	EA
H28506-75R	50
H28508	50
H28508-300R	300
H28510-300R	300
H28512	50
H28512-300R	300
H28516	50
H28516-200R	200
H28520-100	100
H28524-100	100
H28532-100	100
H29004	50
H29004-250R	250
H29004-500R	500
H29006	50
H29006-250R	250
H29006-500R	500
H29008	50
H29008-250R	250
H29008-500R	500
H29010	50
H29010-250R	250

PART NUMBER	PKG QTY
H29012	50
H29012-250R	250
H29016	50
H29016-250R	250
H29020	50
H29020-150	150
H29024	50
H29024-100	100
H29032	50
H290H04	50
H290H04-250R	250
H290H06	50
H290H06-250R	250
H290H08	50
H290H08-250R	250
H290H10	1
H290H12	50
H290H12-250R	250
H290H16	50
H290H16-250R	250
H290H20	50
H290H24	50
H290H32	50
H30004	50
H30004-250R	250
H30006	50
H30006-250R	250
H30008	50
H30008-250R	250
H30010	50
H30010-250R	250
H30012	50
H30012-250R	250
H32308-250R	1
H32406	50
H32504-250R	250
H32506-250R	250
H32508-250R	250
H32512-250R	250
H32516-250R	250
H33204-250R	250
H33204-50C	50
H33206-250R	250
H33206-50C	50
H33208-250R	250
H33208-50C	50
H33210-250R	250
H33210-50C	50
H33212-250R	250
H33212-50C	50
H334504-250R	250
H334504-500R	500
H334506	50
H334506-250R	250
H334506-500R	500
H334508	50
H334508-250R	250
H334508-500R	500
H33503	50
H33503-250R	250
H33504	50
H33504-250R	250
H33506	50
H33506-250R	250
H33508	50
H33508-250R	250
H33512	50
H33512-200R	200
H33516	50
H33516-200R	200
H33603	50
H33603-250R	250
H33604	50
H33604-250R	250
H33604-500R	500
H33606	50
H33606-250R	250
H33608	50
H33608-250R	250
H33612	50
H33612-200R	200
H33616	50
H33616-200R	200
H33806	50
H33806-250R	250
H33808	50
H33808-250R	250

PART NUMBER	PKG QTY
H34504	50
H34504-100	100
H34504-250R	250
H34504-500R	500
H34506	50
H34506-100	100
H34506-250R	250
H34506-500R	500
H34508	50
H34508-100	100
H34508-250R	250
H34508-500R	500
H34706	50
H34706-250R	250
H34708	50
H34708-250R	250
H34710	50
H34710-250R	250
H34712	50
H34712-250R	250
H35006	50
H35006-250R	250
H35008	50
H35008-250R	250
H35010	50
H35010-250R	250
H35012	50
H35012-250R	250
H35016	50
H35016-150R	150
H36606	50
H36606-250R	250
H36608	50
H36608-250R	1
H36904	50
H36906	50
H36908	50
H36910	50
H36912	50
H36916	50
H36920	50
H36924	50
H40010-250R	250
H40012-250R	250
H42104	50
H42104-250R	250
H42106	50
H42106-250R	250
H42504	50
H42504-250R	250
H42504-500R	500
H42506	50
H42506-250R	250
H42506-500R	500
H42508	50
H42508-250R	250
H42508-500R	500
H42510	50
H42510-250R	250
H42512	50
H42512-250R	250
H42516	50
H42516-250R	250
H42520	50
H42520-100	100
H42520-150	150
H42524	50
H42524-100	100
H42524-150	1
H42532	50
H42532-100	1
H42908	50
H42908-250R	250
H43006	50
H43006-100	100
H43008	50
H43008-100	100
H43008-150	150
H43010	50
H43010-100	1
H43012	50
H43012-100	100
H43012-150	150
H43016	50
H43016-100	100
H43016-150	150
H43020	50

PART NUMBER	PKG QTY
H43020-100	100
H43020-150	150
H43024	50
H43024-100	100
H43024-150	150
H43032	50
H43032-100	100
H43032-150	150
H430R06	50
H430R06-100	100
H430R08	50
H430R08-150	150
H430R10-150	150
H430R12	50
H430R12-150	150
H430R16	50
H430R16-150	150
H430R20	50
H430R24	50
H430R32	50
H43504	50
H43504-250	250
H43504-500R	500
H43505	50
H43505-500R	500
H43506	50
H43506-250R	250
H43508	50
H43508-250R	250
H43512	50
H43516	50
H43544	50
H43544-250R	250
H43545	50
H43545-250R	250
H43546	50
H43546-250R	250
H43548	50
H43548-250R	250
H43555	50
H43555-250R	250
H43556	50
H43556-250R	250
H43558	50
H43558-250R	250
H43566	50
H43566-250R	250
H43568	50
H43568-250R	250
H43588	50
H43588-250R	250
H43603	50
H43603-500R	500
H43604	50
H43604-1500R	1
H43604-500R	500
H43605	50
H43605-500R	500
H43606	50
H43606-250R	250
H43608	50
H43608-250R	250
H43608-400	1
H43612	50
H43616	50
H43644	50
H43644-250R	250
H43645	50
H43645-250R	250
H43646	50
H43646-250R	250
H43648	50
H43648-250R	250
H43655	50
H43655-250R	250
H43656	50
H43656-250R	250
H43658	50
H43658-250R	250
H43666	50
H43666-250R	250
H43668	50
H43668-250R	250
H43688	50
H43688-250R	250
H43908	50
H43912	50

PART NUMBER	PKG QTY
H43916	50
H43920	50
H43924	50
H43932	50
H46412	50
H46412-100	100
H46416	50
H46416-100	100
H46420	50
H46420-100	100
H46424	50
H46424-100	100
H46432	50
H46432-100	100
H47008	50
H47012	50
H47016	50
H47020	50
H47024	50
H47032	EA
H47112	EA
H47116	EA
H47120	EA
H47124	EA
H47132	50
H48516	50
H48516-100	100
H48520	50
H48520-100	100
H48524	50
H48524-100	EA
H48712	EA
H48712-150	EA
H48716	EA
H48716-150	EA
H48720	EA
H48720-150	EA
H48724	EA
H48724-150	EA
H48732	50
H54504	50
H54504-250R	250
H54504-500R	500
H54506	50
H54506-250R	250
H54506-500R	500
H54508	50
H54508-250R	250
H54508-500R	500
H54510	50
H54510-250R	250
H54512	50
H54512-250R	250
H54516	50
H54516-250R	250
H56904	50
H56904-250R	250
H56905	50
H56905-250R	250
H56906	50
H56906-250R	250
H56908	50
H56908-250R	250
H56910	50
H56910-250R	250
H56912	50
H56912-250R	250
H56916	50
H56916-250R	250
H56920	50
H56920-250R	250
H600208	50
H600208-100	100
H600208-150	150
H600212	50
H600212-100	100
H600212-150	150
H600216	50
H600216-100	EA
H600216-150	50
H600220	50
H600220-100	EA
H600220-150	50
H600224	50
H600224-100	100
H600224-150	150
H600232	50

PART NUMBER	PKG QTY
H600232-100	100
H600232-150	150
H600248-150	150
H600808	EA
H600808-100	150
H600808-150	150
H600812	50
H600812-100	100
H600812-150	150
H600816	50
H600816-100	100
H600816-150	150
H600820	50
H600820-100	100
H600820-150	150
H600824	50
H600824-100	100
H600824-150	150
H600832	50
H600832-100	100
H600832-150	150
H600840	50
H600840-100	100
H600840-150	150
H600848	50
H600848-100	100
H600848-150	150
H600864	50
H600864-100	EA
H600864-150	EA
H600916	EA
H600916-100	EA
H600916-150	50
H600920	50
H600924	50
H600924-100	100
H600924-150	150
H600932	50
H600932-100	EA
H600932-100M25	150
H600932-150	150
H600940	50
H600940-100	100
H600940-150	150
H600948	50
H600948-100	EA
H600948-100M25	150
H600948-150	150
H600964	50
H600964-100	EA
H600964-100M25	150
H600964-150	150
H75706	50
H75706-100	100
H75706-250	250
H75706-OLP	1
H75708	50
H75708-100	100
H75708-250	250
H75708-OLP	1
H75710	50
H75710-100	100
H75710-250	250
H75712	50
H75712-100	100
H75712-250	250
H867910-50C	50
H867910-600R	600
H90004-500R	1
H90006-500R	1
H90008-500R	1
H90012-500R	1
H90016-100	1
H90016-150	1
H90016-300R	1
H962208	50
H962208-100	100
H962208-150	150
H962212	50
H962212-100	100
H962212-150	150
H962216	50
H962216-100	100
H962216-150	150
H962220	50
H962220-100	100
H962220-150	150

PART NUMBER	PKG QTY
H962224	50
H962224-100	100
H962224-150	150
H962232	50
H962232-100	100
H962232-150	150
H994904-500R	500
H994906-500R	500
H994908-500R	500
H994912-500R	500
H994916-300R	300
HA-574	1
HC-574X	1
HD-1X	1
HD-2X	1
HK0509	10
HK0709	10
HK0809	10
HK0913	10
HK1013	10
HK1113	10
HK1213	10
HK1313	10
HK1413	10
HK1513	10
HK1613	10
HK1713	10
HK1813	10
HK1913	10
HK2017	10
HK2117	5
HK2317	5
HK2517	5
HK2617	5
HK2917	5
HK3117	5
HK3217	5
HK3317	5
HK3417	25
HK3817	25
HLM-48	1
HP10-B	1
HP12-B	1
HP4-B	1
HP6-B	1
HP8-B	1
HPMB-60	1
HPMO-60	1
HPMY-60	1
HSM-48	1
HSP-1	1
HSP-1/2	1
HSP-3/4	1
HSP-5/8	1
IKE04N-104	1
IKE06N-106	1
IKE06N-Y06	1
IKE08N-108	1
IKE08N-Y08	1
IKE12N-112	1
IKE16N-116	1
IKE20N-120	1
IKE24N-124	1
IKE32N-132	1
K04	2
K04N-104	2
K06	2
K06N-106	5
K06N-Y06	2
K08	2
K08N-108	5
K08N-Y08	2
K12	2
K12N-112	5
K16	1
K16N-116	1
K20	1
K20N-120	2
K24	1
K24N-124	1
K24N-124Z	EA
K32	1
K32N-132	1
M41157X6X14	1
M41157X6X16	1
M41157X6X18	1
M7629X10	5

PART NUMBER	PKG QTY
M7629X12	5
M7629X14	5
M7629X16	5
M7629X18	5
M7629X20	5
M7629X22	5
M7629X27	2
M7629X33	2
M7629X42	2
M7630X10	10
M7630X12	10
M7630X14	10
M7630X16	10
M7630X18	10
M7630X20	10
M7630X22	10
M7630X27	10
M7630X33	10
M7630X42	10
M9600X10X8	1
M9600X12X12	1
M9600X16X16	1
M9600X20X20	1
M9600X4X4	1
M9600X5X4	1
M9600X6X4	1
M9600X6X6	1
M9600X8X6	1
M9600X8X8	1
M9700X10X14	1
M9700X12X20	1
M9700X16X25	1
M9700X20X32	1
M9700X4X6	1
M9700X5X8	1
M9700X6X10	1
M9700X8X12	1
M9800X10X8	1
M9800X12X12	1
M9800X12X8	1
M9800X16X12	1
M9800X16X16	1
M9800X20X20	1
M9800X4X4	1
M9800X5X4	1
M9800X6X4	1
M9800X8X4	1
M9800X8X6	1
M9800X8X8	1
MA-100	1
MA-200	1
MB5315X10X12	1
MB5315X12X12	1
MB5315X16X16	1
MB5315X20X20	1
MB5315X4X2	2
MB5315X4X4	2
MB5315X5X4	2
MB5315X6X4	2
MB5315X6X6	2
MB5315X8X6	2
MB5315X8X8	2
MB5515X10X12	1
MB5515X12X12	1
MB5515X16X16	1
MB5515X20X20	1
MB5515X4X4	2
MB5515X5X4	2
MB5515X6X4	2
MB5515X6X6	2
MB5515X8X6	2
MB5515X8X8	2
MB7629X10	10
MB7629X12	10
MB7629X16	10
MB7629X2	10
MB7629X20	10
MB7629X4	10
MB7629X6	10
MB7629X8	10
MB7630X10	10
MB7630X12	10
MB7630X16	10
MB7630X2	10
MB7630X20	10
MB7630X24	10
MB7630X4	10

PART NUMBER	PKG QTY
MB7630X6	10
MB7630X8	10
MC3159X8	1
MC5019X10X15	1
MC5019X10X16	1
MC5019X12X16	1
MC5019X12X18	1
MC5019X12X20	1
MC5019X16X22	1
MC5019X16X25	1
MC5019X4X6	1
MC5019X4X8	1
MC5019X6X10	1
MC5019X8X12	1
MC5019X8X14	1
MC5205X10X12	1
MC5205X10X8	EA
MC5205X12X12	1
MC5205X16X16	1
MC5205X20X20	1
MC5205X4X2	2
MC5205X4X4	2
MC5205X5X4	2
MC5205X6X4	2
MC5205X6X6	2
MC5205X8X6	2
MC5205X8X8	1
MC5206X10X15	1
MC5206X12X18	1
MC5206X4X6	1
MC5206X6X8	1
MC5206X8X10	1
MC5206X8X12	1
MC5207X10X15	1
MC5207X12X18	1
MC5207X4X6	1
MC5207X6X10	1
MC5207X6X8	1
MC5207X8X12	1
MC5208X10X14	1
MC5208X12X16	1
MC5208X6X6	1
MC5208X8X10	1
MC5315X10X20	2
MC5315X12X22	2
MC5315X12X27	2
MC5315X16X33	1
MC5315X20X42	1
MC5315X4X10	2
MC5315X4X12	1
MC5315X4X14	1
MC5315X6X14	2
MC5315X6X16	2
MC5315X8X18	2
MC5315X8X22	1
MC5405X10X12	1
MC5405X12X12	1
MC5405X16X16	1
MC5405X20X20	1
MC5405X4X4	2
MC5405X5X4	2
MC5405X6X4	2
MC5405X6X6	2
MC5405X8X6	2
MC5405X8X8	2
MC5515X10X18	1
MC5515X10X20	1
MC5515X10X22	1
MC5515X12X22	1
MC5515X12X27	1
MC5515X16X33	1
MC5515X4X10	1
MC5515X4X12	2
MC5515X6X14	2
MC5515X6X16	2
MC5515X8X18	2
MC5515X8X22	1
MH7105X10	5
MH7105X12	5
MH7105X14	5
MH7105X16	5
MH7105X20	2
MH7105X25	2
MH7105X30	2
MH7105X38	1
MH7105X6	10
MH7105X8	5

PART NUMBER	PKG QTY
ML7105X10	5
ML7105X12	5
ML7105X15	5
ML7105X18	2
ML7105X22	2
ML7105X28	2
ML7105X6	10
ML7105X8	5
MTP16004NA-100	100
MTP16005NA-100	100
MTP16006NA-100	100
MTP16008NA-100	100
MTP16010NA-100	100
MTP16012NA-100	100
NC-10-B	1
NC-10-C	1
NC-10-S	1
NC-12-B	1
NC-12-C	1
NC-12-S	1
NC-16-B	1
NC-16-C	1
NC-16-S	1
NC-16Z-B	1
NC-16Z-C	1
NC-16Z-S	EA
NC-3-S	EA
NC-4-316	1
NC-4-B	1
NC-4-C	1
NC-4-S	1
NC-5-B	1
NC-5-C	1
NC-5-S	1
NC-6-B	1
NC-6-C	1
NC-6-S	1
NC-8-B	1
NC-8-C	1
NC-8-S	1
NF-6-B	1
NH100085-050YF	1
NH100085-075YF	1
NH100085-100	1
NH100085-100YF	1
NH100085-125	1
NH100085-125YF	1
NH100085-150	1
NH100085-150YF	1
NH100085-200	1
NH100085-200YF	1
NH100085-250	1
NH100085-250YF	1
NH100085-300	1
NH100085-300YF	1
NH100085-350	1
NH100085-350YF	1
NH100085-400	1
NH100085-400YF	1
NH100085-500YF	1
NH100085-600YF	1
NH100086-150	1
NH100086-150YF	1
NH100086-200	1
NH100086-200YF	1
NH100086-250	1
NH100086-250YF	1
NH100086-300	1
NH100086-300YF	1
NH100086-500YF	1
NH1001206	1
NH1001207	1
NH1001208	1
NH1001213	1
NH1001214	1
NH1001215	1
NH100821C200	1
NH101112	1
NH1600C050B0225	1
NH1600C075B0250	1
NH1600C075B0450	1
NH1600C075S0250	1
NH1600C100B0288	1
NH1600C100B0450	1
NH1600C100B0750	1
NH1600C125B0325	1
NH1600C125B0750	1

PART NUMBER	PKG QTY
NH1600C150B0350	1
NH1600C150B0575	1
NH1600C150B0750	1
NH1600C150S0350	1
NH1600C200B0400	1
NH1600C200B0750	1
NH1600C200S0400	1
NH1600C250B0650	1
NH1600C300B0650	1
NH1600C300B1250	1
NH1600C300S0650	1
NH1600C350B0650	1
NH1600C400B0650	1
NH1600C500B0650	1
NH1600C600B0650	1
NH1600N050B0450	1
NH1600N075B0250	1
NH1600N075B0450	1
NH1600N100B0288	1
NH1600N100B0600	1
NH1600N100B0750	1
NH1600N125B0325	1
NH1600N125B0550	1
NH1600N150B0350	1
NH1600N200B0400	1
NH1600N200B0675	1
NH1600N200B0750	1
NH1600N250B0650	1
NH1600N300B0650	1
NH1600N300B1250	1
NH1600N350B0650	1
NH1600N350B1250	1
NH1600N400B0650	1
NH1600N400B1250	1
NH1600N500B0650	1
NH1600N600B0650	1
NH1600S100B0288	1
NH1600S150B0350	1
NH1600S200B0400	1
NH1600S250B0650	1
NH1600S300B0650	1
NH1600S350B0650	1
NH1600S400B0650	1
NH1600S600B0650	1
NH1600V050B0225	1
NH1600V100B0288	1
NH1600V125B0325	1
NH1600V125S0325	1
NH1600V150B0350	1
NH1600V150S0350	1
NH1600V200B0400	1
NH1600V200B0750	1
NH1600V200B1000	1
NH1600V200S0400	1
NH1600V200S0675	1
NH1600V250B0650	1
NH1600V300B0650	1
NH1600V300B1250	1
NH1600V300S0650	1
NH1600V350B0650	1
NH1600V350S0650	1
NH1600V400B0650	1
NH1600V400S0650	1
NH1600V600B0650	1
NH1601C200B	1
NH1601C300B	1
NH1601C350B	1
NH1601C400B	1
NH1601V150B	1
NH1601V200B	1
NH1601V400B	1
NH1602C050B	1
NH1602C075B	1
NH1602C100B	1
NH1602C125B	1
NH1602C150B	1
NH1602C200B	1
NH1602C250B	1
NH1602C300B	1
NH1602C350B	1
NH1602C400B	1
NH1602N100B	1
NH1602N150B	1
NH1602N200B	1
NH1602N300B	1
NH1602S200B	1
NH1602V150B	1

PART NUMBER	PKG QTY
NH1602V200B	1
NH1602V300B	1
NH1604C200B	1
NH1606C075B0225	1
NH1606C100B0250	1
NH1606C125B0262	1
NH1606C125B0600	1
NH1606C125B0675	1
NH1606C150B0288	1
NH1606C200B0338	1
NH1606C300B0550	1
NH1606C350B0400	1
NH1606C400B0400	1
NH1606G300B0400	1
NH1606V300B0400	1
NH1606V400B0400	1
NH1609C250B0400	1
NH1609N250B0400	1
NH1609N400B0750	1
NH1617C100B	1
NH1617C150B	1
NH1617C200B	1
NH1618C075B	1
NH1618C100B	1
NH1618C150B	1
NH1618C200B	1
NH1618C300B	1
NH1618C400B	1
NH1618V250B	1
NH1618V300B	1
NH1618V400B	1
NH1625C075B0225	1
NH1625C088B0225	1
NH1625C100B0250	1
NH1625C100S0250	1
NH1625C112B0250	1
NH1625C125B0288	1
NH1625C138B0300	1
NH1625C150B0300	1
NH1625C150S0300	1
NH1625C175B0350	1
NH1625C200B0350	1
NH1625C225B0400	1
NH1625C250B0400	1
NH1625C250S0400	1
NH1625C300B0500	1
NH1625C300S0500	1
NH1625C500B0450	1
NH1625C500B0650	1
NH1625D200B0350	1
NH1625S250B0400	1
NH1625V150B0300	1
NH1625V200B0350	1
NH1625V200B0575	1
NH1625V250B0400	1
NH1625V300B0500	1
NH1625V300S0500	1
NH1626C250B	1
NH1626C300B	1
NH1627C100B	1
NH1627C150B	1
NH1627C200B	1
NH1627C250B	1
NH1627C300B	1
NH1627V200S	1
NH1627V250B	1
NH1631C300B0400	1
NH1631V125B0250	1
NH1631V200B0288	1
NH1634C225B0375	1
NH1634C250B0325	1
NH1641C150	1
NH1641C200	1
NH1650C050B0225	1
NH1650C050B0450	1
NH1650C075B0250	1
NH1650C075B0450	1
NH1650C100B0288	1
NH1650C100S0288	1
NH1650C125B0325	1
NH1650C125S0325	1
NH1650C150B0350	1
NH1650C150S0350	1
NH1650C200B0400	1
NH1650C200S0400	1
NH1650C250B0650	1
NH1650C300B0650	1

PART NUMBER	PKG QTY
NH1650C350B0650	1
NH1650C400B0650	1
NH1650C500B0650	1
NH1650C600B0650	1
NH1650D200B0400	1
NH1650D400B0650	1
NH1651C150B	1
NH1651C250B	1
NH1652C100B	1
NH1652C125B	1
NH1652C150B	1
NH1652C200B	1
NH1652C250B	1
NH1652C300B	1
NH1652C400B	1
NH1654C100B	1
NH1659C125B0275	1
NH1659C300B0500	1
NH1668C150B	1
NH1668C300B	1
NH1675C150B0300	1
NH1675C200B0350	1
NH1675C200S0350	1
NH1675C250B0400	1
NH1675C300B0500	1
NH1675C500B0450	1
NH1675C500B0650	1
NH1675D500B0650	1
NH1675N150B0300	1
NH1675N200B0350	1
NH1677C200B	1
NH1691C200	1
NH1695C200B0350	1
NH2300V300S0650	1
NJ-10-B	1
NJ-10-C	1
NJ-10-S	1
NJ-12-B	1
NJ-12-C	1
NJ-12-S	1
NJ-16-B	1
NJ-16-C	1
NJ-16-S	1
NJ-20-B	1
NJ-20-C	1
NJ-20-S	EA
NJ-4-316	1
NJ-4-C	1
NJ-4-S	1
NJ-5-B	1
NJ-5-C	1
NJ-5-S	1
NJ-6-B	1
NJ-6-C	1
NJ-6-S	1
NJ-8-B	1
NJ-8-C	1
NJ-8-S	1
NJC-10-B	1
NJC-10-C	1
NJC-10-S	1
NJC-12-B	1
NJC-12-C	1
NJC-12-S	1
NJC-16-B	1
NJC-16-C	1
NJC-16-S	1
NJC-20-B	1
NJC-20-C	1
NJC-20-S	EA
NJC-4-316	1
NJC-4-B	1
NJC-4-C	1
NJC-4-S	1
NJC-5-B	1
NJC-5-C	1
NJC-5-S	1
NJC-6-B	1
NJC-6-C	1
NJC-6-S	1
NJC-8-B	1
NJC-8-C	1
NJC-8-S	1
NJIC-3-S	EA
NJIC-4-S	EA
NJICSAE-4-B	1
NK04	2

PART NUMBER	PKG QTY
NK1000023-050	1
NK1000023-075	1
NK1000023-100	1
NK1000023-125	1
NK1000023-150	1
NK1000023-200	1
NK1000023-250	1
NK1000023-300	1
NK1000023-350	1
NK1000023-400	1
NK1000023-500	1
NK1000023-600	1
NK1000056-138	1
NK1000056-150	1
NK1000056-200	1
NK1000056-225	1
NK1000056-250	1
NK1000056-300	1
NK1000056-500	1
NK1000061C050	1
NK1000061C075	1
NK1000061C100	1
NK1000061C125	1
NK1000061C150	1
NK1000061C200	1
NK1000061C250	1
NK1000061C300	1
NK1000061C350	1
NK1000061C400	1
NK1000061C500	1
NK1000061C600	1
NK1000061D100	1
NK1000061D125	1
NK1000061D150	1
NK1000061D200	1
NK1000061D250	1
NK1000061D300	1
NK1000061D400	1
NK1000061D600	1
NK1000062C100	1
NK1000062C125	1
NK1000062C150	1
NK1000062C175	1
NK1000062C200	1
NK1000062C250	1
NK1000062C300	1
NK1000062C500	1
NK1000062N300	1
NK1000063C038	1
NK1000063C050	1
NK1000063C075	1
NK1000063C100	1
NK1000063C125	1
NK1000063C150	1
NK1000063C200	1
NK1000063C250	1
NK1000063C300	1
NK1000063C350	1
NK1000063C400	1
NK1000063C500	1
NK1000063C600	1
NK1000063D100	1
NK1000063D125	1
NK1000063D150	1
NK1000063D200	1
NK1000063D250	1
NK1000063D300	1
NK1000063D350	1
NK1000063D400	1
NK1000063D500	1
NK1000063D600	1
NK1000063G200	1
NK1000063G300	1
NK1000063N075	1
NK1000063N100	1
NK1000063N125	1
NK1000063N150	1
NK1000063N200	1
NK1000063N250	1
NK1000063N300	1
NK1000063N350	1
NK1000063N400	1
NK1000063N500	1
NK1000063N600	1
NK1000063S050	1
NK1000063S075	1
NK1000063S100	1

PART NUMBER	PKG QTY
NK1000063S125	1
NK1000063S150	1
NK1000063S200	1
NK1000063S250	1
NK1000063S300	1
NK1000063S350	1
NK1000063S400	1
NK1000063S600	1
NK1000063V050	1
NK1000063V075	1
NK1000063V100	1
NK1000063V125	1
NK1000063V150	1
NK1000063V200	1
NK1000063V250	1
NK1000063V300	1
NK1000063V350	1
NK1000063V400	1
NK1000063V500	1
NK1000063V600	1
NK1000064C075	1
NK1000064C088	1
NK1000064C100	1
NK1000064C125	1
NK1000064C138	1
NK1000064C150	1
NK1000064C175	1
NK1000064C200	1
NK1000064C225	1
NK1000064C250	1
NK1000064C275	1
NK1000064C300	1
NK1000064C325	1
NK1000064C500	1
NK1000064D200	1
NK1000064D300	1
NK1000064D500	1
NK1000064G200	1
NK1000064G300	1
NK1000064N150	1
NK1000064N200	1
NK1000064S100	1
NK1000064S125	1
NK1000064S150	1
NK1000064S200	1
NK1000064S250	1
NK1000064S300	1
NK1000064V125	1
NK1000064V150	1
NK1000064V200	1
NK1000064V250	1
NK1000064V300	1
NK1000791-050B	1
NK1000791-075B	1
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NK1000791-125B	1
NK1000791-150B	1
NK1000791-200B	1
NK1000791-250B	1
NK1000791-300B	1
NK1000792-200B	1
NK1000792-250B	1
NK1000792-300B	1
NK1000793-200B	1
NK1001147-175	1
NK12	2
NK1237-075B0450	1
NK1237-100B0288	1
NK1237-100B0450	1
NK1237-100B0600	1
NK1237-125B0325	1
NK1237-125B0550	1
NK1237-150B0350	1
NK1237-150S0350	1
NK1237-200B0400	1
NK1237-200B0750	1
NK1237-200S0400	1
NK1237-250B0650	1
NK1237-250B1250	1
NK1237-300B0650	1
NK1237-300B1250	1
NK1237-300S0650	1
NK1237-350B0650	1
NK1237-400B0650	1
NK1237-400B1250	1
NK1237-500B0650	1
NK1237-600B0650	1

PART NUMBER	PKG QTY
NK1238-150B0300	1
NK1238-150S0300	1
NK1238-200B0350	1
NK1238-200S0350	1
NK1238-225B0400	1
NK1238-250B0400	1
NK1238-250B0675	1
NK1238-300B0500	1
NK1238-500B0650	1
NK16	2
NK20	2
NK32	2
NM12-12-B	1
NM12-12-C	1
NM12-12-S	1
NM16-16-B	1
NM16-16-C	1
NM16-16-S	1
NM2-4-B	1
NM2-4-C	1
NM2-4-S	1
NM20-20-B	1
NM20-20-C	1
NM20-20-S	1
NM4-4-B	1
NM4-4-C	1
NM4-4-S	1
NM4-5-B	1
NM4-5-C	1
NM4-5-S	1
NM4-6-B	1
NM4-6-C	1
NM4-6-S	1
NM4-8-B	1
NM6-6-B	1
NM6-6-C	1
NM6-6-S	1
NM6-8-B	1
NM6-8-C	1
NM6-8-S	1
NM8-10-B	1
NM8-10-C	1
NM8-10-S	1
NM8-8-B	1
NM8-8-C	1
NM8-8-S	1
NNJ-10-B	1
NNJ-10-C	1
NNJ-10-S	1
NNJ-12-B	1
NNJ-12-C	1
NNJ-12-S	1
NNJ-16-B	1
NNJ-16-C	1
NNJ-16-S	1
NNJ-20-B	1
NNJ-20-C	1
NNJ-20-S	EA
NNJ-4-316	1
NNJ-4-B	1
NNJ-4-C	1
NNJ-4-S	1
NNJ-5-B	1
NNJ-5-C	1
NNJ-5-S	1
NNJ-6-B	1
NNJ-6-C	1
NNJ-6-S	1
NNJ-8-B	1
NNJ-8-C	1
NNJ-8-S	1
NT10002BK-100	100
NT10002BK-1000	1000
NT10002BK-50	1
NT10002BK-500	500
NT10003BK-1000	1000
NT10003GN-1000	1000
NT10003YW-1000	1000
NT10004BK-100	100
NT10004BK-1000	1000
NT10004BK-500	500
NT10004BR-100	100
NT10004BR-1000	1
NT10004BR-50	50
NT10004BR-500	500
NT10004BU-100	100
NT10004BU-1000	1
NT10004BU-500	500

PART NUMBER	PKG QTY
NT10004GN-100	100
NT10004GN-1000	1
NT10004GN-500	1
NT10004GY-100	100
NT10004GY-1000	1000
NT10004OR-100	100
NT10004OR-500	1
NT10004RD-100	100
NT10004RD-1000	1000
NT10004RD-500	1
NT10004RYW-1000	1
NT10004SL-100	100
NT10004SL-1000	1000
NT10004WH-100	100
NT10004WH-1000	1000
NT10004WH-500	500
NT10004YW-100	100
NT10004YW-1000	1
NT10004YW-500	1
NT10005BK-100	100
NT10005BK-1000	1000
NT10005BK-500	500
NT10006BK-100	100
NT10006BK-1000	1000
NT10006BK-500	500
NT10006BU-100	100
NT10006BU-500	500
NT10006GN-100	100
NT10006GN-1000	1
NT10006GN-500	500
NT10006OR-100	100
NT10006OR-500	500
NT10006RD-100	100
NT10006RD-1000	1
NT10006RD-500	500
NT10006WH-100	100
NT10006WH-500	500
NT10006YW-100	100
NT10006YW-500	1
NT10008BK-100	100
NT10008BK-1000	1000
NT10008BK-500	500
NT10008BR-100	100
NT10008BR-250	250
NT10008BR-500	1
NT10008BU-100	100
NT10008BU-500	500
NT10008GN-100	100
NT10008GN-1000	1
NT10008GN-500	500
NT10008OR-100	100
NT10008OR-500	1
NT10008RD-100	100
NT10008RD-1000	1
NT10008RD-500	500
NT10008SL-100	100
NT10008SL-250	250
NT10008WH-100	100
NT10008YW-100	100
NT10008YW-500	1
NT10010BK-100	100
NT10010BK-250	250
NT10010BU-100	100
NT10010BU-250	1
NT10010GN-100	100
NT10010GN-250	1
NT10010OR-100	1
NT10010OR-250	250
NT10010RD-100	100
NT10010RD-250	1
NT10010WH-100	100
NT10010WH-250	250
NT10010YW-100	1
NT10010YW-250	1
NT10012BK-100	100
NT10012BK-250	250
NT10025BK-100	100
NT10025BK-1000	1000
NT10025NA-100	100
NT10025NA-1000	1000
PC-48	1
PD-15	1
PD-20	1
PD-40	1
PD-49	1
PD-75SET	1
PD-95	1

PART NUMBER	PKG QTY
PDC-12	1
PDC-16	1
PDC-6	1
PDC-8	1
PDP-12	1
PDP-16	1
PDP-4	1
PDP-6	1
PDP-8	1
PHC12-12F	5
PHC4-4F	5
PHC6-6F	5
PHC8-8F	5
PHN12-12M	1
PHN4-4M	5
PHN6-6M	5
PHN8-8M	5
PRO14040-01	1
PT-45-4	1
PT-90-4	1
PT-PUSHER	1
PT-S-4	1
PT20004NA-100	100
PT20005NA-100	100
PT20006NA-100	100
PT20008NA-100	100
PT20010NA-100	100
PT20012NA-100	100
PT20016NA-100	100
PT20044NA-100	100
PT23002BK-100	100
PT23002BK-1000	1000
PT23002NA-100	100
PT23002NA-1000	1000
PT23003BK-100	100
PT23003NA-100	100
PT23003NA-1000	1000
PT23004BK-100	100
PT23004BK-1000	1000
PT23004NA-100	100
PT23004NA-1000	1000
PT23005BK-100	100
PT23005BK-1000	1000
PT23005NA-100	100
PT23005NA-1000	1000
PT23006BK-100	100
PT23006BK-1000	1000
PT23006NA-100	100
PT23006NA-1000	1000
PT23008BK-100	100
PT23008NA-100	100
PT23008NA-500	500
PT24004BK-100	100
PT24004BK-1000	1000
PT24004BU-100	100
PT24004BU-1000	1000
PT24004GN-100	100
PT24004GN-1000	1000
PT24004NA-100	100
PT24004NA-1000	EA
PT24004NA-500R	100
PT24004OR-100	100
PT24004OR-1000	1000
PT24004RD-100	100
PT24004RD-1000	1000
PT24004YW-100	100
PT24004YW-1000	1000
PT24005BK-100	100
PT24005BK-1000	1000
PT24005BU-100	100
PT24005GN-1000	1000
PT24005NA-100	100
PT24005NA-1000	1000
PT24005YW-100	100
PT24006BK-100	100
PT24006BK-1000	1000
PT24006BU-100	100
PT24006BU-1000	1000
PT24006GN-100	100
PT24006GN-1000	1000
PT24006NA-100	100
PT24006NA-1000	EA
PT24006NA-200R	100
PT24006OR-100	100
PT24006OR-1000	1000
PT24006RD-100	100
PT24006RD-1000	1000

PART NUMBER	PKG QTY
PT24006YW-100	100
PT24006YW-1000	1000
PT24008BK-100	100
PT24008BK-500	500
PT24008BU-100	100
PT24008BU-500	500
PT24008GN-500	500
PT24008NA-100	100
PT24008NA-500	500
PT24008OR-100	100
PT24008OR-500	500
PT24008RD-100	100
PT24008RD-500	500
PT24008YW-100	100
PT24010BK-100	100
PT24010NA-100	100
PT24012BK-100	100
PT24012NA-100	100
PT24016NA-100	100
PT24044BK-100	100
PT24044BK-1000	1000
PT24044BU-100	100
PT24044BU-1000	1000
PT24044GN-100	100
PT24044GN-1000	1000
PT24044GY-1000	1000
PT24044NA-100	100
PT24044NA-1000	1000
PT24044OR-100	100
PT24044OR-1000	1000
PT24044YW-100	100
PT24044YW-1000	1000
QC-18	1
QC-180	1
QC-1800	1
QC-18X	1
R12-Z56	1
R12-Z58	1
R12-Z60	1
R12-Z62	2
R12-Z96	1
R12-Z97	1
R12-Z98	1
R12-Z99	1
R23RGL02	1
RC01C-002	1
RC01C-003	1
RG-24	1
S-10	1
S-10TW	1
S-1103	1
S-1104-1	1
S-1104-2	1
S-1105	1
S-1106-1	1
S-1106-2	1
S-1106-3	1
S-1106DW-2	1
S-1108-1	1
S-1108-2	1
S-1110	1
S-1112	1
S-1116	1
S-1116Z	1
S-1120Z	1
S-12	1
S-12TW	1
S-1303	1
S-1304	1
S-1305	1
S-1306	1
S-1308	1
S-1310	1
S-1312	1
S-1316	1
S-1316Z	1
S-1320Z	1
S-14TW	1
S-16	1
S-16TW	1
S-16Z	1
S-18ZTW	1
S-206-0280	1
S-20Z	1
S-2105	1
S-3	EA
S-310-0360	EA

PART NUMBER	PKG QTY
S-4	1
S-406-0360	1
S-406-0600	1
S-408-0240	1
S-4TW	1
S-5	1
S-5TW	1
S-6	1
S-6TW	1
S-7TW	1
S-8	1
S-8TW	1
S-904-0570	1
S-905-0180	1
S-906-0500	1
S-908-0120	1
S-908-0180	1
S-908-0200	1
S-908-0240	1
S-908-0250	1
S-908-0480	1
S-908-0600	1
S-912-0600	1
S-912-1200	1
S306	10
S308	10
S310	10
S312	10
S320	10
S330	10
S340	10
S351	10
S360	10
S372	10
S408	10
S412	10
S420	10
S430	10
S440	10
S451	10
S460	10
S512	5
S520	5
S530	5
S540	5
S551	5
S560	5
S612	5
S620	5
S630	5
S640	5
S651	5
S660	5
SA-1	1
SA-1X	1
SA-2	1
SB308	5
SB312	5
SB320	5
SB330	5
SB340	5
SB351	5
SB360	5
SC-10	1
SC-10TW	1
SC-12	1
SC-12TW	1
SC-14TW	1
SC-16	1
SC-16TW	1
SC-18ZTW	1
SC-3	1
SC-4	1
SC-4TW	1
SC-5	1
SC-5TW	1
SC-6	1
SC-6TW	1
SC-7TW	1
SC-8	1
SC-8TW	1
SC308	5
SC312	5
SC320	5
SC330	5
SC340	5
SC351	5

PART NUMBER	PKG QTY
SC360	5
SD-10-15	1
SD-10TW-15	1
SD-12-15	1
SD-12TW-15	1
SD-16-15	1
SD-16TW-15	1
SD-20Z-15	1
SD-3-15	1
SD-4-15	1
SD-4TW-15	1
SD-5-15	1
SD-5TW-15	1
SD-6-15	1
SD-6TW-15	1
SD-8-15	1
SD-8TW-15	1
SFK-08	1
SFK-12	1
SFK-16	2
SFK-20	2
SFK-24	2
SFK-32	2
SFK-8	1
SFK62-12	1
SFK62-16	1
SFK62-20	2
SFK62-24	1
SFK62-32	1
SFK62-8	1
SH-53	1
SJ308	5
SJ312	5
SJ320	5
SJ330	5
SJ340	5
SJ351	5
SJ360	5
SK-1306	EA
SK-1308	1
SK-1310	1
SK-1312	1
SK-1316	1
SK-1316Z	1
SR3100W	1
SS-85	1
SS-85X	1
SS-86	1
SS-86X	1
SS-87	1
SS-87X	1
SS-88	1
SS-88X	1
STE12-12	1
STE16-16	1
STE4-4	1
STE4-5	1
STE6-6	1
STE8-8	1
T-10-D	1
T-10-H	1
T-10-P	1
T-10-V	1
T-10-V1	1
T-100	1
T-101	1
T-1010	1
T-101A	1
T-1022	1
T-1037	1
T-1037B	1
T-1037H	1
T-1038	1
T-104	1
T-1040	1
T-1041	1
T-1042	1
T-1043	1
T-1046	1
T-1047	1
T-1047-1	1
T-105	1
T-106	1
T-1060	1
T-1060A	1
T-107	1
T-1070	1

PART NUMBER	PKG QTY
T-1071	1
T-1072	1
T-108	1
T-1080	1
T-10B	1
T-10B-1	1
T-10C	1
T-10C-1	1
T-10V-1	1
T-1100	1
T-1106	1
T-1110	1
T-1116	1
T-1124	1
T-1132	1
T-125	1
T-125B	1
T-1290	1
T-1295	1
T-1296	1
T-1297	1
T-135	1
T-135B	1
T-138	1
T-138B	1
T-139	1
T-139P	1
T-140	1
T-141	1
T-1412	1
T-142	1
T-1422R	1
T-143	1
T-1430	1
T-144	1
T-145	1
T-146	1
T-147	1
T-148	1
T-149	1
T-150	1
T-151	1
T-152	1
T-152P	1
T-160	1
T-160-B	1
T-191	1
T-191B	1
T-200	1
T-201	1
T-201B	1
T-210	1
T-220	1
T-221	1
T-300	1
T-300X	1
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TE12-12	1
TE16-16	1
TE4-4	1
TE4-5	1
TE6-6	1
TE8-8	1
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TF3409X6-CT	100
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TF3529X6	1
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PART NUMBER	PKG QTY
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TF3759X20-CT	10
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TF5355X5X4	1
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TF5356X6-CT	150
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TF5365X8-CT	100
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TF5405X4X4-CT	100
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TF5405X6-CT	100
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TF5405X6X6	10
TF5405X6X6-CT	100
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PART NUMBER	PKG QTY
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TF5405X8X8-CT	60
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TF5506X12	5
TF5506X12-CT	50
TF5506X14	1
TF5506X16	2
TF5506X16-CT	20
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TF5506X20-CT	10
TF5506X24	1
TF5506X32	1
TF5506X4	5
TF5506X4-CT	100
TF5506X5	1
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TF5506X6-CT	100
TF5506X8	5

PART NUMBER	PKG QTY
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TF5515X10L	1
TF5515X10LL	1
TF5515X10X12	5
TF5515X10X12-CT	20
TF5515X10X8	1
TF5515X12	5
TF5515X12-CT	20
TF5515X12L	1
TF5515X12LL	1
TF5515X12LL-CT	20
TF5515X12X10	1
TF5515X12X14	1
TF5515X12X16	5
TF5515X12X16-CT	20
TF5515X12X8	1
TF5515X14	1
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TF5515X16-CT	25
TF5515X16X12	1
TF5515X16X12-CT	10
TF5515X16X14	1
TF5515X16X20	1
TF5515X16X20-CT	20
TF5515X20	1
TF5515X20-CT	10
TF5515X20X16	1
TF5515X20X16-CT	10
TF5515X24	1
TF5515X24-CT	10
TF5515X24X20	1
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TF5515X8LL	1
TF5515X8X10	2
TF5515X8X10-CT	50
TF5515X8X12	2
TF5515X8X12-CT	20
TF5515X8X6	2
TF5515X8X6-CT	50
TF5525X10	1
TF5525X10BN	1
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TF5605X8	1
TF5605X8X8X8	2
TF5655X10	1
TF5655X12	1
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PART NUMBER	PKG QTY
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TF5655X6X6X6	2
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TF5755X8X8X8	1
TF5805X10	1
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TF5805X16	1
TF5805X4	1
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TH-7010	1
TH-7012	1
TH-7014	1
TH-7016	1
TH-7020	1
TH-7025	1
TH-7030	1
TH-8	1
TH-8 BAG	1
TL-7008	1
TL-7010	1
TL-7012	1
TL-7015	1
TL-7018	1
TL-7022	1
TL-7028	1
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VHC20-20F	1
VHC24-24F	1
VHC32-32F	1
VHC4-4F	5
VHC6-6F	5
VHC8-8F	5
VHN12-12F	2
VHN12-12M	2
VHN16-16F	1
VHN20-20F	1
VHN24-24F	1
VHN32-32F	1
VHN4-4F	5
VHN6-6F	5
VHN8-8F	5
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W-EQCR-TE006-E	1
W-EQCR-TE010-E	1
W-EQCR-TE014-E	1
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W14630	10
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W17709	5
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PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY
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WAL612729	EA	WAL619123	EA	WAL624614	EA										
WAL619030	EA	WAL619124	EA	WAL624615	EA										
WAL619031	EA	WAL619125	EA	WAL624616	EA										
WAL619032	EA	WAL619126	EA	WAL624617	EA										
WAL619033	EA	WAL619127	EA	WAL624618	EA										
WAL619034	EA	WAL619128	EA	WAL624619	EA										
WAL619035	EA	WAL619129	EA	WAL624620	EA										
WAL619036	EA	WAL619130	EA	WAL624621	EA										
WAL619037	EA	WAL619131	EA	WAL624622	EA										
WAL619038	EA	WAL619132	EA	WAL624623	EA										
WAL619039	EA	WAL619133	EA	WAL624624	EA										
WAL619040	EA	WAL619134	EA	WAL624625	1										
WAL619041	EA	WAL619135	EA	WTT024	1										
WAL619042	EA	WAL619136	EA	WTT036	1										
WAL619043	EA	WAL619137	EA	WTT224	1										
WAL619044	EA	WAL619138	EA	WTT236	1										
WAL619045	EA	WAL619139	EA	WTT824	1										
WAL619046	EA	WAL619140	EA	WTT836	1										
WAL619047	EA	WAL619141	EA	WTY024	1										
WAL619048	EA	WAL619142	EA	WTY030	1										
WAL619049	EA	WAL619143	EA	WTY036	1										
WAL619050	EA	WAL619144	EA	WTY048	1										
WAL619051	EA	WAL619145	EA	WTY224	1										
WAL619052	EA	WAL619146	EA	WTY230	1										
WAL619053	EA	WAL619147	EA	WTY236	1										
WAL619054	EA	WAL619148	EA	WTY248	1										
WAL619055	EA	WAL619149	EA	WTY824	1										
WAL619056	EA	WAL619150	EA	WTY830	1										
WAL619057	EA	WAL619151	EA	WTY836	1										
WAL619058	EA	WAL619152	EA	WTY848	1										
WAL619059	EA	WAL619153	EA	ZW74706	10										
WAL619060	EA	WAL619154	EA	ZW74708	10										
WAL619061	EA	WAL619155	EA	ZW74710	10										
WAL619062	EA	WAL619156	EA	ZW74712	10										
WAL619063	EA	WAL619157	EA	et4000dc-m295s	1										
WAL619064	EA	WAL619158	EA												
WAL619065	EA	WAL619159	EA												
WAL619066	EA	WAL619160	EA												
WAL619067	EA	WAL619161	EA												
WAL619068	EA	WAL619162	EA												
WAL619069	EA	WAL619163	EA												
WAL619070	EA	WAL619164	EA												
WAL619071	EA	WAL619165	EA												
WAL619072	EA	WAL619166	EA												
WAL619073	EA	WAL619167	EA												
WAL619074	EA	WAL619168	EA												
WAL619075	EA	WAL619169	EA												
WAL619076	EA	WAL619174	EA												
WAL619077	EA	WAL619175	EA												
WAL619078	EA	WAL619176	EA												
WAL619079	EA	WAL619177	EA												
WAL619080	EA	WAL619178	EA												
WAL619085	EA	WAL619179	EA												
WAL619086	EA	WAL619180	EA												
WAL619087	EA	WAL619181	EA												
WAL619088	EA	WAL619182	EA												
WAL619089	EA	WAL619183	EA												
WAL619090	EA	WAL619184	EA												
WAL619091	EA	WAL619185	EA												
WAL619092	EA	WAL619186	EA												
WAL619093	EA	WAL619187	EA												
WAL619094	EA	WAL619188	EA												
WAL619095	EA	WAL619190	EA												
WAL619096	EA	WAL619191	EA												
WAL619097	EA	WAL619192	EA												
WAL619098	EA	WAL619193	EA												
WAL619099	EA	WAL619194	EA												
WAL619101	EA	WAL619195	EA												
WAL619102	EA	WAL619197	EA												
WAL619103	EA	WAL619198	EA												
WAL619104	EA	WAL619199	EA												
WAL619105	EA	WAL619200	EA												
WAL619106	EA	WAL619201	EA												
WAL619108	EA	WAL619202	EA												
WAL619109	EA	WAL619203	EA												
WAL619110	EA	WAL619205	EA												
WAL619111	EA	WAL619206	EA												
WAL619112	EA	WAL619207	EA												
WAL619113	EA	WAL619208	EA												
WAL619114	EA	WAL619570	EA												

PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY	PART NUMBER	PKG QTY

STORAGE UNITS

M10-STORAGE UNITS

Base Stand for, Storage Bins, Drawer Cabinets .M10-2
Cabinet Doors, 40 Bin .M10-2
Drawer Cabinets .M10-2
Drawer Cabinet Dividers .M10-2
Drill Cases .M10-11
Drill and Tap Dispensers .M10-12
Hand Cleaner Dispensers .M10-16
Hand Clean Pump .M10-16
Labels, Pressure Sensitive, Storage Bins & Drawer Cabinets .M10-8
MSDS Organizer
Right to Know Compliance Center .M10-6
Rack and Binder .M10-6
Racks
2-4 Rod Wire Spool .M10-13
Aerosol Can .M10-13
Hose Clamp .M10-13
Threaded Rod .M10-13
Keystock .M10-13
Brake Line .M10-14
Fuel Line .M10-14
Cable Tie .M10-14
Wheel Dispenser .M10-14
Wiper Racks .M10-15
Key Rack .M10-16
Literature Storage .M10-16
Shelving
Literature Storage .M10-16
Storage Door Tray .M10-16
Storage Bins
Bulb Organizer .M10-15
Corrugated Bin Boxes .M10-9
Stackable Plastic .M10-9
Steel .M10-1
Storage Cabinets
E-Z View .M10-8
Hose/Cable .M10-7
Truck & Van Cabinets & Accessories .M10-17
Utility .M10-8
Welding .M10-13
Steel Storage Tray Accessories
4 Drawer Slide Rack .M10-5
6 Drawer Security Slide Rack .M10-5
Slide Rack Stands .M10-5
Storage Service Trays .M10-3-4
Adjustable, Steel .M10-3
Portable, Copolymer Resin .M10-3
Plastic Utility Boxes .M10-9
Steel .M10-4
Stowaway Orrganizer .M10-10

NOTES

STORAGE BINS

STORAGE BINS

Part No. 12004

Heavy duty units designed for storing a wide variety of small parts.

- **Storage bins are made from prime, cold rolled steel – Interlock and welded construction.**
- **Rust and acid resistant baked enamel finishes.**
- **One inch lip provides a convenient location for labels and keeps parts securely in place.**

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of BINS	BIN DEPTH	BIN HEIGHT	BIN WIDTH
12004*	23-5/8	23-5/8	4-3/4	**36**	3-3/4	3-3/4	3-7/8
12021†	35	21	12	**40**	12	4	4
12058	35	9-1/2	12	**16**	12	4-1/2	4
12068	35	17-1/2	12	**32**	12	4	4
12154	34	24	12	**12**	12	6-5/8	8
12155	34	20	12	**18**	12	6-3/8	5-3/8
12156	34	24	12	**24**	12	5-1/2	5-3/8
12157	35	21	12	**8**	12	8	8

*** Vertical dividers are removable, allowing creation of double width bins.**
† Doors available below.

Part No. 12021†

– 72 BIN CABINET –
ORDER
12021 and 12068

– 80 BIN CABINET –
ORDER TWO 12021
STORAGE BINS.

Part No. 12058

Part No. 12154

Part No. 12068

Part No. 12157

Part No. 12155

Part No. 12156

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DRAWER CABINETS and ACCESSORIES

DRAWER CABINETS

Designed as heavy duty units for storing a wide variety of small parts.

- **Drawer cabinets are made from prime, cold rolled steel – Interlock and welded construction.**
- **Rust and acid resistant baked enamel finishes.**
- **Exclusive "No Drag" drawers for smooth, easy travel.**
- **All drawers have "Positive Stop" mechanism which prevents drawers from being accidentally pulled out of the cabinet.**
- **All storage cabinets include drawer dividers (Part No. 12053.)**
- **All Drawer handles are molded as part of the drawer.**

Part No. 12020
36 dividers included

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of DRAWERS	DRAWER DEPTH	DRAWER HEIGHT	DRAWER WIDTH
12020	33-3/4	11	11-5/8	**18**	11-3/16	2-3/4	5-5/16
12064	17-1/8	11	11-5/8	**9**	11-3/16	2-3/4	5-5/16
12065	33-3/4	3-15/16	11-5/8	**6**	11-3/16	2-3/4	5-5/16
12067	33-3/4	7-3/8	11-5/8	**12**	11-3/16	2-3/4	5-5/16
12070	17-1/8	11	11-5/8	**6**	11-3/16	2-3/4	5-5/16
12074*	33-3/4	12-13/16	11-11/16	**18**	11-3/16	3-1/2	5-5/16

* **Drawers are 3/4'' higher than cabinet 12020.**

Part No. 12064
18 dividers included

Part No. 12065
12 dividers included

DRAWER CABINET DIVIDERS
To use when extra spaces are needed.

Part No. 12053 10

Part No. 12067
24 dividers included

Part No. 12070
12 dividers included

Part No. 12074*
36 dividers included

40 BIN CABINET DOORS

- **Hinged door set with padlock attachment.**
- **Attach with sheet metal screws or rivets.**
- **Use with 40 bin cabinet #12021.**
- **Padlock, screws and rivets not included.**

Part No. 12132

BASE STAND

- **Special multi-purpose base stand can be used with or without legs.**
- **3'' raise without legs, 5-3/4'' raise with short legs or 15" high with long legs.**

Part No. 12059
(short legs 5-3/4" high)

Part No. 12164
(long legs 15" high)

- **35" wide x 12" deep.**
- **Acid and rust resistant baked enamel finish.**
- **Solid top with raised lip corners so cabinet cannot slide off.**
- **Can be used with all storage bins and drawer cabinets.**

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STORAGE TRAYS

SERVICE TRAYS – ADJUSTABLE

Movable dividers for convenient creation of any size compartment needed.

Part No. 12090

Part No. 12051

PART NUMBER	SPECIFICATIONS INCHES WIDTH	HEIGHT	DEPTH	PART NO. DIVIDERS
12051	18	3	12	**12052**
12090*	18	3	12	**12091**
				12092

*** Completely adjustable, vertically and horizontally.**

ADDITIONAL DIVIDERS

PART NUMBER	TYPE OF DIVIDER	TYPE OF MATERIAL	FITS TRAY NO.	QTY
12052	Horizontal	Plastic	**12051**	10
12091	Horizontal	Plastic	**12090**	3
12092	Vertical	Plastic	**12090**	3

PORTABLE SERVICE TRAYS

These trays are made to be carried right to the job. You don't have to guess what you need or stuff your pockets with what you might use.

- **Luggage style handle for comfort.**
- **Fits all slide racks on page 14.**
- **Made from lightweight, tough copolymer resins that won't dent, rust, warp or break.**

Part No. 12109

Part No. 12111

Part No. 12151

Part No. 12110

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of COMPARTMENTS
12151	18	3	12	**21**
12109	18	3	12	**24**
12111*	18	3	12	**4 to 16**
12110*	18	3	12	**8 to 32**

*** Includes removable partitions to create compartments from 4 to 16 and 8 to 32.**

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STORAGE TRAYS

SERVICE TRAYS

Designed for storing and transporting a wide variety of small parts.

- Service trays are made from prime, cold rolled steel.
- Rust and acid resistant baked enamel finishes.
- Service trays have scoop bottom compartments for easy removal of small parts.
- Metal clasp holds lid down to provide transportability.

PART NUMBER	SPECIFICATIONS INCHES WIDTH	HEIGHT	DEPTH	NUMBER of COMPARTMENTS
12116	18	3	12	**6**
12061	18	3	12	**12**
12050	18	3	12	**16**
12071	18	3	12	**20**
12056*	18	3	12	**21**
12017	18	3	12	**24**
12062	18	3	12	**32**
12166	18	3	12	**6**

* 20 equal size compartments, with one large compartment for tools.

Part No. 12071

Part No. 12017

Part No. 12166

Part No. 12116

Part No. 12056

Part No. 12050

Part No. 12061

Part No. 12062

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STORAGE TRAY ACCESSORIES

4 DRAWER SLIDE RACKS

- Slide racks are made from prime, cold rolled steel.
- Rust and acid resistant baked enamel finishes.
- Each tray can hold 100 lbs. in the open position without tilting.
- Fits all service trays on the facing page.
- Part No. 12007 features "Triple Track" telescoping tracks for extra extension. Takes up less room but provides full opening. (Spacer saver)
- Part No. 12112 features heavy duty construction with metal riveted roller wheels built to handle the heaviest loads.
- Part No. 12131 to be used with 4 drawer racks listed below.
- Keeps drawers secure in service trucks.

LOCKING HINGES
For 4 drawer racks.
Locks drawers in place.

Part No. 12131

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of DRAWERS
12134	20-1/4	8-1/8	15-3/4	**2**
12007	20-5/16	15	12-1/2	**4**
12019	20-1/4	14-3/4	15-3/4	**4**
12112	20-7/16	14-3/4	16-3/4	**4**

6 DRAWER SECURITY SLIDE RACK

- Slide racks are made from prime, cold rolled steel.
- Rust and acid resistant baked enamel finishes.
- Each tray can hold 100 lbs. in the open position without tilting.
- Fits all service trays on the facing page.
- Not recommended for wall mounting.
- Door includes an exclusive keyed sliding lock system.
- Telescoping tracks.
- 24" H x 20-3/4" W x 14" D.
- Drawers not included.

Part No. 12135

SLIDE RACK STANDS

- Acid and rust resistant baked enamel finish.
- For convenient use of lower drawers.
- 1/2" lip at corners so cabinet will not slide off.
- Extra strong allows cabinet stacking.

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	USE with SLIDE RACK NO.
12152	20-5/16	5-3/4	12-1/2	**12007**
12115	20-5/16	15	12-1/2	**12007**
12153	20-1/4	5-3/4	15-3/4	**12019**
12060	20-1/4	15	15-3/4	**12019**
12113	20-7/16	15	16-3/4	**12112**

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RIGHT TO KNOW COMPLIANCE CENTER and ACCESSORIES

• For Compliance with OSHA's Hazard Communication Standard • Organize MSDS Sheets in One Place •

RIGHT TO KNOW COMPLIANCE CENTER

Economical and popular.

This compliance center contains
- **Red polystyrene board:**
  - **Holes for wall mounting**
  - **Bright safety colors**
  - **Storage rack for binder**
- **Yellow MSDS binder:**
  - **2" wide with 1-1/2" rings**
  - **Cover and spline marked MSDS**
- **Chain - 3 feet long**

Part No. RTK200
20" high x 14" wide x 4-1/2" deep

RIGHT TO KNOW RACK and BINDER

This compliance center contains
- **Same rack, binder and chain as RTK200 - without the red backboard:**
  - **Holes in rack for wall mounting**
  - **Rack holds binders up to 3-1/2" wide**

Part No. RTK600
12" high x 14" wide x 4-1/2" deep

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STORAGE CABINETS and ACCESSORIES

HOSE / CABLE CABINET

Used to store hose, cable, tubing, wire, etc.

- **Welded construction.**
- **Made from prime cold rolled steel.**
- **Rust resistant baked enamel finish.**
- **Ideal for storing hydraulic hose.**
- **Sections are adjustable.**
- **Includes 5 dividers.**
- **Shipped motor freight.**

Part No. 12150
Cabinet size
27-3/4" H x 36" W x 20" D
Weights 70 lbs.

PRESSURE SENSITIVE, EASY PEEL LABELS

Used on storage bins & drawer cabinets

- **Coated paper resists dirt and oil.**
- **All labels are printed on coated stock.**

PART NUMBER	TYPE OF LABEL	PAPER COLOR
TYG13	Metric 8.8 Hardware Set (TYG55 Coarse & TYG56 Fine)	White
TYG14	Grade 5 Hardware Set (TYG51 USS & TYG52 SAE)	White
TYG15	Blank	Yellow
TYG35	PCV Valves	White
TYG39	Wheel Studs & Nuts	White
TYG51	Grade 5 USS Hardware	White
TYG52	Grade 5 SAE Hardware	White
TYG53	Grade 8 USS Hardware	Yellow
TYG54	Grade 8 SAE Hardware	Yellow
TYG55	Metric 8.8 Coarse	White
TYG56	Metric 8.8 Fine	White
TYG57	Metric 10.9 Coarse	Yellow
TYG59	Breather Filters	White
TYG63	Brass Fittings	Yellow
TYG67	Mini Bulbs	White
TYG69	Grade 5 USS Lg. Sizes	White
TYG70	Grade 8 USS Lg. Sizes	Yellow
TYG77	Drain Plugs	White
TYG78	Drain Plug Gaskets	White
TYG80	Grade 8 Hardware Set (TYG53 USS & TYG54 SAE)	Yellow

Label Sets are available for all assortments in Bins. To order use stock number with "BL" suffix (exp. BL501054).

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STORAGE CABINETS

E-Z VIEW STORAGE CABINETS

For storing a wide variety of small parts.

- Welded construction.
- Drawers are made of clear, break resistant high impact styrene.
- Exclusive "Non-Slip" feature.
- Wall mounting if desired.

Part No. 12055

Part No. 12054

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of DRAWERS	DRAWER DEPTH	DRAWER HEIGHT	DRAWER WIDTH
12054	21	25-3/8	6-3/8	**64**	5-1/2	1-7/8	2-7/8
12055	16-3/8	11	6-3/8	**20**	5-1/2	1-7/8	2-7/8

UTILITY CABINETS

Store and organize a variety of miscellaneous items.

- Cabinets are made from prime, cold rolled steel.
- Acid and rust resistant baked enamel finish.
- 12105 and 12106 cabinets feature two adjustable shelves and a locking hinged door.
- 12014 cabinet features double doors with lock and two keys (ignition cabinet.)

Part No. 12105

Part No. 12106

Part No. 12014

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of SHELVES
12105	14	30	13	**2**
12106	20	33	14	**2**
12014	26-1/2	30	9	**5**

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STORAGE BINS and CONTAINERS

STACKABLE PLASTIC BINS

Heavy duty units designed for storing a wide variety of small parts.

- Extra-wide stacking ledge assures stability and allows higher stacking.
- Anti-slide stop prevents stacked bins from shifting forward.
- Large label slot for easy labeling and relabeling.
- Curved bottom at front of each bin allows easy retrieval of small parts.

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	LENGTH	COLOR
12073	8	7	11	Yellow

CORRUGATED BIN BOXES

- 200 lb. test corrugated cardboard construction.
- Designed to stretch your shelving space.
- White exterior.
- Easily labeled or marked.
- Assembly required.

PART NUMBER	SPECIFICATIONS INCHES WIDTH	HEIGHT	LENGTH	QTY
12136	2	4	12	25
12137	4	4	12	25
12138	8	4	12	25

PART NUMBER	SPECIFICATIONS INCHES WIDTH	HEIGHT	LENGTH	QTY
12139	4	4	18	25
12140	8	4	18	25

STORAGE CONTAINER

- Excellent solution for stocking transmission filter kits and other bulky items.
- Straight walls allow for efficient use of space.
- Hand holes on all four sides.
- High density polyethylene for rigidity, strength, durability.
- Mesh side and base allow high visibility and won't trap dirt.
- **Only available in grey.**

PART NUMBER	SPECIFICATIONS INCHES WIDTH	LENGTH	HEIGHT
12127	24	16	12

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PLASTIC STORAGE TRAYS and ORGANIZER

THE STOWAWAY ORGANIZER

- Made from prime cold rolled steel.
- Durable gray baked enamel finish.
- Versatile 3 way use - key hole slots for wall mounting, bolt holes for stacking and handle for carrying.
- Holds 5 plastic trays (as noted below).
- 2 sizes available.

Part No. 12141
13-1/2" W x 9-1/8" D x 13-1/4" H

Part No. 12142
11-1/4" W x 6-3/4" D x 10-3/4" H

PLASTIC UTILITY BOXES

*Polypropylene - Heavy Duty

- Handy, inexpensive and durable.
- Transparent or translucent plastic with hinged lid and snap-closure.
- Sizes and compartments for any use: storing hardware, office and hobby supplies, electronic and precision parts and much more.

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DRILL CASES

METRIC DRILL CASE

- The best protection for your valuable drills.
- High impact steel.
- Space for 11 metric drills.
- 1mm to 6mm by .50mm increments.
- Drill sizes imprinted for easy identification.

Part No. 12093

METRIC DRILL CASE

- Ideal for keeping your drills safe and handy.
- High impact steel.
- Space for 19 metric drills.
- 1mm to 10mm by .50mm increments.
- Drill sizes imprinted for easy identification.

Part No. 12094

TAP AND DRILL CASE

- The best drill and tap case for protecting your valuable tools.
- High impact steel.
- Space for 9 drills and 9 taps.
- Sizes 6-32 to 1/2-13 coarse thread.
- Drill and tap sizes imprinted for easy identification.

Part No. 12107

TAP AND DRILL CASE

- You'll save time when your drills are organized in this handy steel case.
- High impact steel.
- Space for 9 drills and 9 taps.
- Sizes 6-40 to 1/2-20 fine thread.
- Drill and tap sizes imprinted for easy identification.

Part No. 12108

INDUSTRIAL DRILL CABINET

- Space for 29 drills, 12 of each - 1/16" to 1/2" by 64ths.
- Heavy duty construction allows cabinets to be stacked on each other.

Part No. 12072
Cabinet Size:
14-1/2" long
x 7-1/4" high
x 7-1/4" deep.

FRACTIONAL DRILL CASE

- Space for 13 fractional drills - 1/16" to 1/2" by 64ths.
- Sizes imprinted on case for easy
- identification.

Part No. 12095

FRACTIONAL DRILL CASE

- Space for 15 fractional drills - 1/16" to 1/2" by 32nds.
- Sizes imprinted on case for easy identification.

Part No. 12096

FRACTIONAL DRILL CASE

- Space for 29 fractional drills - 1/16" to 1/2" by 64ths.
- Sizes imprinted on case for easy identification.

Part No. 12097

LETTER DRILL CASE

- Space for 26 letter drills - from A to Z.
- Sizes imprinted on case for easy identification.

Part No. 12098

NUMBER DRILL CASE

- Space for 60 number drills - from 1 to 60.
- Sizes imprinted on case for easy identification.

Part No. 12099

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DRILL and TAP DISPENSERS

1/2" REDUCED SHANK DRILL INDEX

- Space for 8 drills, sizes 9/16"-1" by 16ths.
- Sizes imprinted on case for easy identification.

Part No. 12148

LETTER DRILL DISPENSER

- For letter drills A to Z.
- Has 3 drawers.

Part No. 12085

MASTER COMBINATION DRILL INDEX

- Holds fractional drills 1/16" to 1/2" by 64ths.
- Wire gauge No. 1 to No. 60.
- Letter sizes A to Z.

Part No. 12082

NUMBER DRILL DISPENSER

- For number drills 1 to 60.
- Has 5 drawers.

Part No. 12084

MASTER TAP DISPENSER

For 1/4" to 1" Tap Sizes.

- Plastic dividers protect tap edges.
- Extra storage for drills, dies, etc.
- 14-1/2" x 7-1/4" x 7-1/4"

Part No. 12086

MASTER TAP DISPENSER

For 2-56 to 12-24 Tap Sizes.

- Plastic dividers protect tap edges.
- Extra storage for drills, dies, etc.
- 14-1/2" x 7-1/4" x 7-1/4"

Part No. 12087

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2 ROD WIRE SPOOL RACK

- Ideal for counter top use.
- Heavy duty metal construction.
- Will hold up to eight 100' spools.

Part No. 12002

Cabinet size: 26-1/8" wide x 17-7/8" high x 6" deep.

4 ROD WIRE SPOOL RACK

- Heavy duty metal construction.
- Stores spools up to 10" diameter.
- Spools load and unload easily.

Part No. 12057

Cabinet size: 26-1/8" wide x 37-1/8" high x 6" deep.

AEROSOL CAN RACK

- Heavy duty metal construction.
- Hang on wall or use on counter.
- 21-1/2 wide, 5-1/4 high, 3-1/8 deep.
- 6 compartments.

Part No. 12013

WELDING ROD CABINET

- Welded construction.
- Baked grey hammerstone enamel finish.
- **Cabinet Size:** 16-1/8" wide x 18-1/2" deep x 8-1/8" high.

Part No. 12078

MASTER HOSE CLAMP RACKS

- Durable heavy duty steel construction.
- Bench or wall mountable.
- Sign panel lists clamp diameters.
- **Rack size:** 23-1/4" wide x 16-1/8" high x 5-1/4" deep.

Contents not included with racks

PART NUMBER	HOSE CLAMP SIZES	NUMBER OF LOOPS
12124	#4 mini thru #36	10
12125	#40 thru #72	5

THREADED ROD RACK

- Heavy duty metal construction.
- Separates and protects threaded and unthreaded rod, key stock.
- 18 separate compartments.
- **Compartment size:** 2-1/16" square.

Part No. 12006

Cabinet size: 24-1/8" wide x 24" high x 6-7/8" deep.

KEYSTOCK RACK

- 10 compartments, holds keystock up to 3/4" x 12".
- Bench or wall mount.
- **Rack size:** 12-1/4" wide x 12" high x 6-1/4" deep.

Contents not included with rack

Part No. 812123

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RACKS

BRAKE LINE RACK

FRACTIONAL • DOMESTIC

- Sturdy metal construction
- Informative face plate tells about our "Safety Certified" hydraulic brake lines.
- 6 different lengths of 3 sizes – 18 total printed on the face plate.

Part No. 12011

FUEL LINE - VACUUM HOSE RACK

- Sturdy yet inexpensive.
- Durable, all metal, heavy duty construction.
- Hang on wall or place on counter or floor.
- Easy assembly - no tools needed.

Part No. 12010

BRAKE LINE RACK

METRIC • IMPORT

- Sturdy metal construction.
- Holds 7 lengths – 35 lines total.

Part No. 12015

CABLE TIE RACK

- Inventory can be taken at a quick glance, with the 5 compartment rack.
- Rack may hold up to 1000 cable ties.
- Wall mountable pre-drilled holes on 3 sides for ease of hanging.

Part No. 12180

BRAKE LINE RACK

GM 6mm

- Sturdy metal construction.
- 14 slots, holds 7 lengths, total 112.
- 14-3/4" long x 5-1/4" deep x 6" high.

Part No. 12165

WHEEL DISPENSER

- Holds 4-1/2" size cut-off wheels or grinding wheels.
- Take one out and the next one drops down.
- 16-1/8" H x 6-3/16" W x 5-3/16"D.
- Holds approx: 275 cut-off wheels or 60 grinding wheels

Part No. 12178

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RACKS and BULB STORAGE BIN

EXACT FIT® WIPER RACK

- 2' display (24" W x 11.5" H x 24" D).
- Easy to read application charts provide convenient access to important product information.
- 9 adjustable hooks.

Contents not included with rack

Part No. **12145**

RAINY DAY WIPER RACK

- 2' display holds up to 150 blades.
- Durable, easy to clean and maintain.
- Easily mounts to most pegboard fixtures.
- Display shipped without products & application guide or header card.
- Application guide available separately (PB37).
- Header card 2' available separately (12143).

Contents not included with rack

Part No. **12147**

BOSCH ROLLING DISPLAY WIPER RACK

- 2' rolling design.
- 3 bars with 10 hooks each will accommodate a total of 180 blades.
- Attractive molded styrene header.
- Sturdy base great for holding one gallon jugs of windshield washer solvent.

Part No. **12146**

WAGNER'S BULB STORAGE BIN MERCHANDISER

- New narrow profile design... less space with more inventory.
- Adjustable bin dividers... provide flexible storage capacity.
- Impact resistant... built tough for the most demanding environments.
- See through bins... easy product selection and inventory at-a-glance.
- All metal frame... adds strength and durability.
- Blue powder coating... for long-lasting good looks.
- Concealed storage area... offers extra space for additional inventory.
- Convenient installation... wall-mount or place on your workbench.

Order **Part No. 615301**
(19" wide x 26-3/4" high x 4" deep)

***Added Bonus: This rack includes (6) #9004 Bulbs *FREE* to help offset the cost of the rack.**

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HAND CLEANER DISPENSERS, SHELVING / STORAGE TRAYS and RACKS

CITRA-CLEAN PUMP

All natural, organic hand cleaner, with Di-Limonene

- **Fits Citra-Clean 1 gallon jugs.**
- **Stainless steel construction, withstands heavy industrial use jug after jug after jug. Will not fail like throw - away plastic pumps.**
- **Never buy another pump. Guaranteed for life when used with our brand Citra-Clean hand cleaner.**

Part No. 13188

WALL MOUNT DISPENSERS

- **Heavy duty pump assemblies can be used with Citra-Clean or E-Z clean hand cleaners.**
- **Pumps both pumice and non-pumice products.**
- **Fully guaranteed for 5 years.**

Part No. 13187
Fits 7 lb. can

Part No. 13186
Fits 4-1/2 lb. can

STORAGE DOOR TRAY

- **High quality, all steel storage door trays are designed specifically for use in outfitting trucks and vans.**
- **Storage door trays are perfect for plumbers, electricians, sign painters, service vehicles, anyone who works out of their truck or van.**
- **Ready to install.**
- **Trays come with lids.**

Part No. 12075
Tray Size:
21'' wide x 21'' high x 4-1/2'' deep.
3 door trays with 12 tray dividers.

LITERATURE STORAGE RACK

- **Our racks provide a convenient and compact way to store literature and still keep it readily accessible and visible.**
- **Storage literature racks are perfect for waiting rooms, and it can be used for parts booklets, wall charts, shop catalogs, invoices, etc.**
- **Keyhole slots are provided for wall mounting.**

Part No. 12076
Rack Size:
13-1/8'' wide x 26-1/4'' high x 2'' deep.
Opening: A = 12-1/8" wide,
B = 5/16" deep, C = 5-5/8" high
Number of pockets: 10

KEY RACK

- **28 hooks included.**
- **Free standing.**

Part No. 915001

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SPECIAL ORDER PRODUCTS

TRUCK and VAN CABINETS and ACCESSORIES

Part No. 12162

Part No. 12161

Part No. 12160

- Made from prime cold rolled steel.
- Welded construction.
- Part No. 12160 are ideal for large tools and bulky items.
- Part No. 12160 and 12161 come with lockable hinges to hold drawers in place in moving vehicles.
- Part No. 12161 comes with 81 adjustable dividers.
- Gray baked enamel finish.
- **ALLOW APPROXIMATELY 2 WEEKS FOR DELIVERY.**

PART NUMBER	SPECIFICATIONS WIDTH	HEIGHT	DEPTH	NUMBER of DRAWERS	NUMBER OF DIVIDERS	WEIGHT LBS.
12160*	12-5/8	24-1/2	12-1/8	**4**	0	32
12161*	12-5/8	24-1/2	12-1/8	**9**	81	46
12162	Dividers for No. 12161					1

*** Padlock not included.**

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ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

A

A • A • A

3/8" DRIVE TIGHT GRIP ROUNDED BOLT & NUT REMOVER KITS D11-1
ABRASIVES/GRINDING
Bonded....D10A-11-13
Cut Off Wheels
Aluminum Oxide Metal D10A-13
Type 1....D10A-13
Depressed Center D10A-13
High Speed....D10A-13
Masonry....D10A-12
Grinding Wheels
Depressed Center D10A-11
Heavy Duty D10A-12
Mounted....D10A-12
Coated....D10A-5-10
3M Products
Roloc™
Brake Rotor Surfacing DiscsD10A-10
Grinding Discs D10A-10
Sanding Sheets D10A-7-8
Stikit
Disc Pad D10A-7
Gold Disc Rolls D10A-7
Green Disc Rolls....D10A-7
Cartridge Rolls D10A-9
Crocus Cloth Sheets D10A-7
Emery
Cloth Sheets D10A-7
Cloth Utility Rolls D10A-7
E-Z Abrasive Flap Wheels D10A-6
Fastcut
Bolt On Grinding Discs D10A-8
Sanding Sheets D10A-7
Wet or Dry Sheets D10A-6
Fiber Discs....D10A-10
Non Loading Sandpaper....D10A-7
Plumbers Rolls
E-Z Clean Cloth Roll....D10A-7
Grip-Kut Mesh Cloth Roll....D10A-7
Silicone Carbide
Screencloth....D10A-6
Assortment D10A-6
Dispenser Rolls D10A-6
Solid Rubber Drums....D10A-8
Spiral Bands....D10A-8
Trim-Kut Discs D10A-9
Twist-Lock Mini Grinding Discs..D10A-10
Zirconium
Blue Flash Flap Discs....D10A-5
Mini D10A-5
Twist-Lock Mini Flap Discs D10A-6
Grinder Brushes & Wheels....D10A-3
Miscellaneous D10A-16-17
3M Roloc™ Bristle Discs D10A-17
Bristle Discs & Brushes D10A-17
Bronze Wool D10A-16
Steel Wool....D10A-16
Non-Woven D10A-14-16
3M Products
Clean 'N Strip Discs....D10A-14
Flap Wheels
100% Non-Woven D10A-14
Interleaf....D10A-14
Gasket Cleaner....D10A-15
Strip-It Discs....D10A-16
Surface Conditioning Hand PadsD10A-16
Surface Preparation Discs....D10A-14-15
Twist-Lock Disc Assortments....D10A-15
Steel/Nylon Brushes....D10A-2
Steel Wire Brushes & Wheels....D10A-1-3
ABSORBENT, INSTANT LIQUID & VOMIT..C14-6
ABSORBENT PADS D14-25
AC SENSOR....D11-14
AC SYSTEM GUARD™ KIT L17-22
ACETAMINOPHEN EXTRA-STRENGTH ...D14-23
ACID
Brush D14-7
Sprayer C14-8
ACORN NUTS, STEEL....A11-8

DESCRIPTION GROUP / PAGE

A

18-8 Stainless Steel....A13-8
A2 Stainless Steel....A16-16
ADAPTERS
Arbor D10C-40-41
Brake Line H15-5-6
Battery Terminals....E15-3-10
ADHESIVE NON-LEAD WHEEL WEIGHTS .H10-6
ADHESIVE WHEEL WEIGHT REMOVAL TOOL H10-6
ADHESIVES
3M Single Step Primer....C11-14
3M Super 77 ....C11-3
Brushable....C11-4
Cyanoacrylate....C11-4
Disc Brake Quiet....C11-14
Double-Bubble Packets C11-6
JB Kwik, JB Weld....C11-10
Epoxy Sticks C11-10
E-6000™ High Strength Synthetic....C11-2
Form-A-Gasket C11-3
Gasket....C11-1, 3-4, 12-13
Gorilla Glues....C11-3
Gorilla Epoxy C11-10
Moulding....C11-14-15
Q-Bond Fast Bonding C11-2
Replacement Nozzles....C11-1
Seal-All - All Purpose....C11-3
Stainless Steel Epoxy....C11-10
Superbond 8000 ....C11-9
Super Glue....C11-3
Super Glue Gel....C11-4
Super Glue Remover....C11-5
Super Weatherstrip....C11-14
Trim Adhesive....C11-14
ThreadLock....C11-8, 14
Tube-Grip™ Dispenser Handle C11-1
Vibra-Tite C11-4
ADHESIVES, ANAEROBIC
Flange Sealant....C11-14
Gasket Maker C11-13
High Strength, High Temp, Sleeve Retainer C11-7
High Strength Permanent Thread Lock....C11-7
High Strength Retaining Compound....C11-7
Medium Strength Removable Thread Lock....C11-7
Medium Strength "Wicking Grade" Porosity Sealant Thread Lock....C11-7
ADJUSTABLE WRENCHES....D11-5, 15
ADVIL TABLETS....D14-23
AEROSOL SPRAY GUN TRIGGER HANDLE, CAN-GUN....C14-8
AGRICULTURAL EQUIPMENT MAINTENANCE....A20-14
AIR BRAKE PARTS
3/8" Hose Repair Kit....B13-27
Fitting Inserts B13-24
Fittings B13-23-24
Hose Assemblies B13-27
Hose Support Clamps G15-27
Hose, Type B B13-28
Nylon Tubing....B13-30
Parts G15-27
Reusable Fittings B13-28
AIR CONDITIONING TRANS/FUEL DISCONNECT SET G16-11
AIR CONDITIONING PARTS....L17
Concentrated U/V Dye L17-19
Deodorizer....C12-13, L17-20
Diode/Adapter/Pigtails....L17-15
Dual O-Ring Fittings/Gaskets....L17-12
Dye Charge L17-19
Dyestercool™ Oil L17-19
Estercool™ Oil L17-17
R134a Oil Charge L17-18
Factory R134a System Ports L17-15
Fresh N' Kool....L17-20
Garter Springs....L17-12
Gaskets L17-3
In-Line Filter, Universal High Side....L17-17
Insulation Tape....L17-20
Leak Lock....L17-18

DESCRIPTION GROUP / PAGE

A

Leak Stop....L17-19-20
Measuring Cup....L17-20
Odor Buster Auto Fogger™....L17-20
O-Rings....L17-4-11
Lubricant L17-18
Orifice Tubes....L17-13-14
PAG Oil for R134a Systems....L17-18
PAG Oil w/Dye L17-19
Permagum....L17-20
Pigtails....G11-5, 7, L17-15
Pilot Inserts & Kits, GM L17-12
Pressure Cycling Switch....L17-15
R134A Retrofit Parts L17-16
R134a Oil Charge....L17-18
Relays/Switches G12-4, L17-15
Schrader Service Port Caps....L17-21
Schrader Valve Cores L17-21
Sealing Washers & Kits, GM....L17-12
Seals L17-4-11
Service Couplers....L17-16
Service Port Adapters L17-16
Service Port Caps L17-16, 21
Service Ports....L17-15
Slim Line Washers L17-3
Smart VOV, Orifice Valve....L17-14
Springlock Repair Parts....L17-12
Square Cut O-Rings....L17-9
Super Seal....L17-20
System Guard™ Kit....L17-22
System Ports, Tools L17-16
Universal Fluorescent Leak Detector Dye....L17-19
Valve Cores & Kits L17-21
Valve Core Tools....L17-21
Weight Graded PAG Oil L17-18
AIRCRAFT CABLE....A20-6
Vinyl Coated....A20-6
AIR FRESHENERS C12-13
AIR GREASE GUN....G16-8
AIR HOSE B11-1
AIR HOSE SEPARATORS....G15-27
AIR JET DUST CLEANER C12-2
AIR SAW BLADES D10C-35
AIR TANK DRAIN VALVE G15-27
AIR TOOL CONDITIONER....C10-8
AIR TOOL LUBRICANT C10-7
AIR LINE
Chucks B11-3
Couplers & Plugs....B11-5-9
Filter, 1/4" Standard B11-2
Pressure Gauge....B11-2
Regulator, 1/4" Standard....B11-2
ALARMS, BACK-UP....G15-20-22
ALKALINE DRAIN OPENER C14-7
ALL NATURAL INDUSTRIAL HAND CLEANER, WORX C12-5
ALL PURPOSE ADHESIVE - SEAL-ALL C11-3
ALL THREADED ROD A12-10
ALLEN KEYS D11-5-6
ALLIGATOR CLIPS....E12-20
ALTERNATING ALARM G15-21
ALUMINUM
AlumiBlast....C13-3
Blind Rivets....A19-1-2
Brazing Flux Powder....D13-10
Brightener Concentrate....C12-1
Cleaners C12-1
Epoxies....C11-6, 9-11
Foil Tape....D14-3
w/Butyl Rubber Liner D14-3
Paint C13-3
Rivets A19-1-2
Silicone, RTV "Make-A-Gasket" C11-1, 12-13
Tubing & Cable Mounting Clips E12-17
AMALGAMATING WRAP D14-2
ANAEROBIC FLANGE SEALANT....C11-14
ANCHOR SHACKLE A20-6
ANCHORS
Anchors
Assortments....A21-1
Kits....A21-2
Nylon Drive Screw A21-2
Nylon Screw A21-2

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

A

Ribbed Plastic....A21-2
Toggler® Toggle Bolt....A21-3
Uni-Tap....A21-3
Vinyl Screw....A21-2
Hollow Wall
Drive Grips....A21-4
E-Z Toggle....A21-5
Master Grips....A21-4
Rawl Legs™ Anchors....A21-5
Rawl Zip-It™ Anchors....A21-5
Super Toggler® (Toggler™)....A21-4
Toggle Wings & Bolts....A21-3-4
Toggler® Toggle Bolt....A21-3
Utility Hook....A21-5
Wall Dog....A21-4
Wall Grips....A21-4
Masonry
Double Expansion....A21-8
Drop-In....A21-8
Hangermate® Threaded Rod Anchoring System....A21-9
Lag Screw Shields....A21-8
Machine Screw....A21-8
Maxi-Stud....A21-7
Rawl Hammer Drive Pins....A21-6
Rawl Zamac "Nailin"....A21-6
Stud Bolt
Hex Nut Style....A21-8
Slotted Flat Head Style....A21-8
Tapcon®....A21-6
Titen™ HD Threaded....A21-7
Solid Wall Anchors
Alligator®....A21-5
ANCHORING SYSTEM, THREADED ROD..A21-9
ANTI-FOG SAFETY GLASSES....D14-21
ANTI-FREEZE, GAS LINE....C14-2
ANTI-FREEZE TESTER....G16-12
ANTI-RUST WITH WATER PUMP LUBE....C14-3
ANTI-SEIZE LUBRICANT
Copper....C10-11
General Purpose....C10-11
Never•Seez®....C10-12
Non Metallic....C10-12
Permatex®....C10-11
ANTI-SPATTER....D13-8
ANTI-SQUEAK DISC BRAKE COATING...C11-15
APRON, SHOP....D14-18
ARBOR ADAPTERS....D10A-1
ARBORS....D10C-40-41
ARM PROTECTORS, KEVLAR....D14-18
ASSAULT II CRAWLING & FLYING INSECT KILLER....C14-1
ASSEMBLY
Fluid....C10-13
Grease....C10-13
ASSORTMENTS-SEE SPECIAL SECTION
AUTO BODY FASTENERS
Bolts
Body....J10-47-48
Bumper Bolts....J10-48
Flange....J10-47
License Plate Bolts, Nuts, Screws and Kits....J10-41-44
Machine Screw....J10-47
Miscellaneous
Grommets....J10-32-34, 38, 41
Nuts....J10-36, 49
Retainers & Clips....J10-37-38, 40
Sheet Metal Plugs....J10-41
Shims....J10-40
Nuts
Cage....J10-50
Expansion....J10-51-52
Hex....J10-49
License Plate....J10-41-42
Manifold....J10-49
Miscellaneous....J10-36, 40
Pal....J10-50-51
Push....J10-51
Speed
Extruded....J10-34-35, 50
Flat Type....J10-50
"U" & "J" Type....J10-35-36, 50
Thread Cutting....J10-50

A-B

Well Nuts....J10-51
Rivets
Blind, Nylon....J10-58, 61-62
Bumper....J10-57, 60
Miscellaneous....J10-62-63
Miscellaneous Special Applications....J10-57, 60-62
Riveting Tools....J10-58-59
Trim....J10-56, 60
Window, Glass and Door....J10-56, 60
Screws
Hex Head....J10-43-46
License Plate....J10-41-43
Machine....J10-42
Tapping....J10-43-45
Trim....J10-46
Miscellaneous....J10-44
Thread Repair
Clinch-Nuts®....J10-52
Mandrels and Nosepieces....J10-53
Rivet-Nut Blind Threaded Rivets....J10-53
Washers
Fender Washers....J10-49
Finishing Washers....J10-49
AUTO TRANS FILTER KITS....H18-1-9
AUTO TRANS SERVICE PARTS....H17-1-2
AUTOMOTIVE APPEARANCE PRODUCTS....D14-11
AUTOMOTIVE SERVICE TOOLS
Battery Service....G16-10-11
Brake Repair....G16-14-15
Electrical Service....G16-11
Engine Service....G16-12-13
Exhaust....G16-13
Fuel....G16-11
Ignition Service....G16-11
Leak Detection....G16-11
Lubrication Tools & Accessories....G16-1-9
Tire Repair....G16-15-16
Vacuum....G16-11
Wheel Repair....G16-15-16
AVIATION SNIPS....D10C-43

B • B • B

BACK BELTS....D14-18
BACK FLIP CRAWLING INSECT KILLER....C14-1
BACK-UP ALARMS....G15-20-22
BACK-UP WASHERS....A19-25
BALLDRIVER HEX KEYS....D11-5
BALL JOINT LINKAGE ASSEMBLIES
Ball Joint Assemblies....A20-13
Clevis Yoke End....A20-13
Rod End Ball Joints....A20-13
BALL SWIVEL AIR HOSE CONNECTORS & FITTINGS....B11-9
BALL VALVES....B10-8
BANDAGES
Adhesive Pads....D14-23
Fabric Bandages....D14-23
Gauze Pads....D14-23
Knuckle & Fingertip Bandages....D14-23
Plastic Strips....D14-23
BANDSAW BLADES....D10C-36
BAR'S LEAK TABLETS....C11-16
BARREL NUTS....A11-10
BARRICADE TAPES....D14-4
BARB-TITE CLAMPLESS HOSE FITTINGS....B13-21
BARBED BRASS FITTINGS....B13-18
BARBED WATER HOSE FITTINGS....D14-17
BARRIER CREAM, INVISIBLE GLOVE™....C12-8
BASE STANDS....M10-2
BATTERIES
"3V" Lithium Size 123....D12-5
"A23" Alkaline....D12-5
Alkaline Leak Proof Industrial....D12-5
Duracell® Lithium....D12-5
Energizer 357 Button Cell....D12-5

B

"N" Alkaline....D12-5
Flashlight....D12-5
BATTERY
Bolt....E15-13
Cable Extenders....E15-2
Cables....E15-1-2
Charger Clips....E12-20
Chemicals....E15-1
Clamps, Holddown....E15-14-15
Cleaner & Protector....C12-12-12, E15-1
Connectors
Industrial....E15-7
Emergency Terminals....E15-3-5
GM Base Mount....E15-15
Harnesses....E15-3
Hold-Downs....E15-15
Hold-Down Bolts....E15-14
Hold-Down Kits, Ford....E15-15
Jumper Cable....E15-13
Nuts....E15-9, 13
Slugs....E15-12
Terminals....E15-3-11
Adapters....E15-4-5
Boots....E15-3
Coatings....E15-1
Compression....E15-8
CorrectConnect™ Un-Plated Seamless Copper Starter Lugs....E15-10
Lugs....E15-8-11
Non-Stackable, Lugs....E15-9
Stackable, Lugs....E15-9
Straight Sandcast Copper Solderbond....E15-11
Truck....E15-5
Trays....E15-14
Terminal Pullers....G16-10
Terminal Cleaner....G16-10
Testers....G16-10
Universal Lead-Free Terminal....E15-4
BATTERY TOOLS
Auto. Computer Memory Unit....G16-10
Booster Cables....G16-10
Cable Clamps....G16-10
Cleaner & Reshapers....G16-10
Fillers....G16-10
Cleaner & Protector....G16-11
Terminal Puller....G16-10
Tester....G16-10
BAYCO LIGHTING....D12-3
BAYONET AIRLINE GAUGE....B11-2
Replacement Parts....B11-2
BEARING LUBRICANT
Boat Trailer....C10-13
Heavy Duty....C10-7
Lubriplate....C10-13
Red Grease....C10-13
BEARINGS
Pillow Blocks....A20-11
BELT DRESSINGS....C13-1
BELT WRENCH SET, SERPENTINE....G16-13
BELTS
Back....D14-18
BENDING PLIERS....H15-3
BERKEBILE 2+2 GUM CUTTER....-4
BEVELED WASHER, SQUARE....A14-2
BIN, WAGNER'S BULB STORAGE MERCHANDISER....M10-15
BINS, STACKABLE (PLASTIC)....M10-9
BINS & ACCESSORIES, STORAGE....M10-1-2, 7
Base Stand....M10-2
BIN BOXES, CORRUGATED....M10-9
BINDER CHAIN....A20-3
BIO FOAM ENZYMATIC FOAMING COIL CLEANER....C12-3
BIONIC SHIELD....D13-11, D14-20
Replacement Visor....D13-11, D14-20
BIT HOLDERS....D11-10
BITS, BRAKE LATHE....G16-14
BLACK SILICONE, RTV "MAKE-A-GASKET"....C11-1, 12
BLACKHAWK HAND TOOLS
Combination Wrenches....D11-3-4
Screwdrivers....D11-9-10
Ratchets....D11-3

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

B

Wrench Sets....D11-3-4
BLADES
Air Saw....D10C-35
Bandsaw, Carbon Flexback....D10C-36
Close Quarter....D10C-35
H.D. Utility Knife....D10C-44
Hacksaw....D10C-34-35
Hole Saw....D10C-41
Jigsaw....D10C-36
Portable, Bandsaw....D10C-36
PVC/ABS....D10C-38
Razor....D10C-44
Reciprocating....D10C-36-40
Saber Saw....D10C-36
Tri-Fold....D10C-37
BLADES, WIPER....G10-1-3
BLANKETS, WELDING....D13-7
BLASTER AIR TOOL CONDITIONER....C10-8
BLEEDER SCREWS, BRAKE....H13-3
BLIND FASTENERS
Clinch Nuts®....A17-1
Rivets....A19-1-5
Well Nuts....A11-9
Woodserts....A11-9
BLIND RIVETS, NYLON....J10-58, 61-62
BLIND RIVETS TOOL....A19-26, J10-58
BLOC-IT PASTE....D13-8
BLOCKS, URINAL....D14-14
BLOW GUNS....B11-3-4
E-Z Grip Adjustable Pocket....B11-3
Inline....B11-4
Star Tip....B11-4
BLUE FLASH FLAP DISCS....D10A-5-6
BLUE SILICONE, RTV
"MAKE-A-GASKET"....C11-1, 12
BLUE WIPERS ON A ROLL....D14-12
Dispenser....D14-12
BMW RESET TOOL....G16-7
BOAT TRAILER BEARING GREASE....C10-13
BODY BOLTS....J10-47-48
BODY MOULDING TAPE....D14-3
BODY PANEL MOULDING CLIPS & RETAINERS
Door Clips....J10-30
Door Hinge Pins & Bushings....J10-31
Fasteners & Clips....J10-37
Hood Prop Clips....J10-32
Miscellaneous
Clips....J10-37
Nuts....J10-36
Retainers, Clips & Grommets..J10-37-38
Nuts & Grommets....J10-32-34
"U" & "J" Speednuts....J10-34-36
BODY REPAIR SYSTEM, 3M....D14-3
BODY SHOP CLEANERS....C12-12-13
BODY SHOP TOOLS
Hot Air Gun....D11-14
Pry Bar....D11-11
Ratcheting Screwdriver....D11-9
Shaping Files....D10C-42-43
BOLT-ON FUSES....G14-4
BOLT-ON FASTCUT GRINDING DISCS....D10A-8
BOLT & NUT EXTRACTORS....D11-1
BOLT RETHREADING TOOL, EXT.....D10C-32
BOLTS
Assortments
12 Point Flange (Countr-Bor)....A12-5
Double Ended....A12-11
Elevator....A12-1
Eye....A12-8
Grade 2 Carriage....A12-3
Grade 2 Galvanized Carriage....A12-4
Grade 2 Hex Head Tap....A12-5
Grade 5 Carriage....A12-3
Grade 5 Hex Head Tap....A12-4
Grade 5 Ribbed Neck Carriage....A12-4
Grade 8 Carriage (Shaker Screen).A12-2
Grade 8 Hex Flange....A12-6
Grade 8 Hex Head Tap....A12-4
Hex Serrated Flange Locking....A12-6
Step....A12-1
Stove....A12-7-8
Battery, Side Terminal....E15-13
Body....J10-47-48

DESCRIPTION GROUP / PAGE

B

Bumper Bolts....J10-48
Carriage
Galvanized Grade 2....A12-4
Grade 2....A12-3
Grade 5....A12-3
Ribbed Neck....A12-4
Grade 8 (Shaker Screen)....A12-2
Stainless Steel....A13-6
Double End Studs....A12-11
Elevator....A12-1
Exhaust....H19-3
Extractors....D11-1
Eye....A12-8-9
Flanged
12 Point (Countr-Bor)....A12-5
Grade 8 Hex....A12-6
Hex Serrated Locking....A12-6
Locking....A12-6
Metric....A16-13-14
Small Head, Class 10.9....A16-15
Fully Threaded Studs....A12-10
Galvanized Carriage....A12-4
Guide....H13-2
Hanger....A12-9
Hex Flange Gr. 8....A12-6
Hex Head, Metric....A16-6-10
"J" with nuts....A12-9
License Plate....J10-41-44
Pan....H17-2
Plow
Grade 5 Clipped Head....A12-1
Grade 5 #3....A12-1
Grade 8 #3....A12-1
Rod Coupling....A12-11
Self-Tapping Pan Bolts....H17-2
Sex....A15-20
Shaker Screen Grade 5....A12-2
Spring Center....A12-7
Square "U" Bolts....A12-9
Step....A12-1
Stove....A12-7-8
Studs....A12-10-11
Tap
Grade 2 Hex Head....A12-5
Grade 5 Hex Head....A12-4
Grade 8 Hex Head....A12-4
Threaded Rod....A12-10
Toggler® Toggle....A21-3
Torque Converter....H17-1
Transmission Pan....H17-2
"U"....A12-9
Unthreaded Rod....A12-10
BONDHUS HEX KEYS....D11-5
BONDED ABRASIVES....D10A-11-13
Cut Off Wheels
Aluminum Oxide Metal....D10A-13
Type 1....D10A-13
Depressed Center....D10A-13
High Speed....D10A-13
Masonry....D10A-12
Grinding Wheels
Depressed Center....D10A-11
Heavy Duty....D10A-12
Mounted....D10A-12
BONDED SELF SEALING WASHERS....A14-6
BONDING STRAPS, POST TERMINALS....E15-3
BOOSTER CABLE CLAMPS....G16-10
BOOSTER CABLES....G16-10
BOSCH® DIRECTCONNECT BLADES....G10-1
BOSCH® EVOLUTION BLADES....G10-1
BOSCH® MICRO EDGE BLADES....G10-1
BOSCH® WINTER SNOW BLADES....G10-1
BOUNTY® PERFORATED
PAPER TOWEL ROLL....D14-13
BOW TIE COTTER PINS....A18-3
BOWED SPRING WASHERS....A14-3
BOX WRENCHES, OFFSET....D11-3
BRACKETS....G15-4, 20, 26
BRAIDED MUSIC WIRE....D14-15
BRAKE
Adjusting Hole Cover....H13-4
Assembly Fluid....C10-13
Bleeder Screws....H13-3

DESCRIPTION GROUP / PAGE

B

Screw Caps....B15-1, L14-12
"C" Clips....H13-4
Caliper Grease....C10-13
Caliper Thread Repair....A17-6
Cleaner, Aerosol....C12-10-11
Cleaner & Parts Degreaser....C12- 4, 10-11
Cotter Pin....H13-4
Disc Brake Parts....H13-1-4
Import/Miscellaneous....H13-2-4
Drum Brake Holddown Parts....H13-4
"E" Clips....H13-4
Fluid....C14-3
Guide Bolts....H13-2
Guide Pins....H13-2
Holddown Cups....H13-4
Holddown Pins....H13-4
Hose Gasket Copper....H13-3
Hose Lock....H13-4
Lathe Cutting Bits....G16-14-15
Lathe Silencers....G16-14
Line Adapters....H15-5-6
Line Fittings....H15-2, 4-6
Lines, Hydraulic....H15-1-3
Lubricant....C10-13
Rotor Surfacing Discs, 3M....D10A-10
Sealing Gaskets, Copper....H13-3
Squeal Silencer....C11-15
BRAKE ANTI-SQUEAK....C11-15
BRAKE LATHE BITS, ON-THE-CAR....G16-14
Silencers....G16-14
BRAKE LINES, PREVENTX....H15-2
BRAKE MACHINE ACCESSORIES....G16-14
BRAKE QUIET TREATMENT....C11-15
BRAKE SERVICE TOOLS
Cutting Bits....G16-15
Disc Brake Cylinder Hone....G16-13-14
On-The-Car Brake Lathe Bits....G16-14
Silencers....G16-14
Rotor Silencers....G16-14
Rotor Surfacing Tool....D10A-10
Round Carbide Bits....G16-15
BRAKE SQUEAL SILENCER....C11-15
BRAKLEEN®
NON-CHLORINATED & LOW
VOC BRAKE PARTS CLEANER.C12-10-11
NON-FLAMMABLE
BRAKE PARTS CLEANER....C12-10-11
BRASS, BARBED WATER
HOSE FITTINGS....D14-17
BRASS FASTENERS
Cap Screws, Brass....A13-19
Cap Screws, Bronze....A13-21
Countersunk Washers....A13-20
Finishing Washer, Nickel Plated....A13-20
Flat Washers....A13-20
Hex Nuts....A13-20
Bronze....A13-21
Hi-Nut....A13-20
Machine Screw Nuts....A13-20
Machine Screws....A13-18-19
Threaded Rod....A13-19
Washers....A13-20
Countersunk Finishing....A13-20
Flat....A13-20
Nickel Plated Finishing....A13-20
Wood Screws....A13-17-18
BRASS FITTINGS....B13
Adapter....B13-22
Air Brake
Fittings....B13-23-28
Hose....B13-27-28
Repair Kit for 3/8" I.D.....B13-27
Barb-Tite Clampless Hose Fittings....B13-21
Barbed Connectors, Hose....B13-18
Compression
Double....B13-18
Standard....B13-5, 10
Discharge Hose....B13-27
Drain Cocks....L15-3
Dubl-Barb....B13-21
Fastube
Air Brake....B13-23-24
Caplugs....B13-32

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

B

Compression B13-12-13
Fuller Transmission....B13-18
Hose
Air Brake....B13-27-28
Assemblies B13-27
Fittings....B13-20
Push-On B13-22
Hose Ends B13-20
Hydraulic Brake Fittings....H15-1-6
Inserts B13-29
Inverted Flare....B13-5, 7-8
Nut, Steel....B13-7-8
Plug, Steel B13-8
Oil Cooler Repair B13-19
Pipe Fittings....B13-5-7
Pipe Thread B13-6-7
Push Connect Metric B13-16-17
SAE 45° Flared....B13-5, 8-9
Self-Align....B13-11
Special Adapters....B13-22
Tank Valves....B13-28-29
Threaded Sleeve....B13-19
Tools B13-31
Transmission H17-1
Valves....B13-28-29
BRASS HOSE FERRULES B12-4
Crimping Tool....B12-4
BRASS SAFETY CHAIN A20-2
BRASS WOOD INSERTS....A11-9
BRAWNY INDUSTRIAL®
GENERAL-PURPOSE WIPER....D14-13
BRAZIER HEAD SOLID ALUM. RIVETS....A19-10
BRAZING FLUX PASTE D13-10
BRAZING FLUX POWDER D13-10
BRAZING RODS, PATRIOT D13-1, 4A
BRITISH STANDARD METRIC
ROLLER CHAIN A16-22
BRISTLE DISCS & BRUSHES D10A-17
BRONZE, SILICON FASTENERS....A13-21
BRONZE WOOL D10A-16
BROOMS
Bus D14-8
Floor D14-9
Push D14-9
BRUSHABLE ADHESIVE/SEALANT C11-4
BRUSHES
Acid D14-7
Car Washing....D14-7
Condenser Tube....D10A-2
Deburring....G17-1
Detailers....D14-7
Foam D14-10
Miniature, Nylon/Steel D10A-2
Paint D14-10
Parts Cleaning D14-7
Power Tube D10A-2
Plumber's....D14-7
Radiator Cleaning D14-7
Steel Power Tube....D10A-2
Tire Cleaning D14-7
Tube Fitting D10A-2
Utility, Wire....D14-7
Wire D10A-1-3
BUCKETS D14-8
Bucket/Wringer Combo Set D14-8
BUFFING COMPOUNDING PAD....D14-11
BUGBAND WRISTBANDS D14-26
BULBEX RIVETS....A19-7
BULBS
13 Watt Replacement Fluorescent D12-1
Competitive Edge Automotive G13-1, 4-5
Flashlight D12-4
Fluorescent....D12-1
Frosted....D12-1
Halogen....G13-1-2
Halogen Back-up....G13-1-2
Long Life....D12-1
Miniature....G13-3-5
Rough Service D12-1
Sealed Beam....G13-2
Standard D12-1
Super Service D12-1
T-3 Halogen D12-1
Tuffskin D12-1

B-C

Wagner
BriteLites G13-2
Mini. Bulb/Lighting Program G13-3
Bulb Merchandiser G13-3
BULK CHEMICAL EQUIPMENT....C14-7-8
BULK CHEMICALS....C10-1
BULK CHEMICAL SPRAYERS C14-8
BULLS EYE REPAIR KIT....C11-16
BUMPER, TRUNK (Interior) & UNDERHOOD
Retainers & Clips....J10-16-28
BUMPER
Flexible Paint C13-4
Rivets J10-57, 60
BURS, CARBIDE D10C-34
BUS BROOMS, EXTENDABLE HANDLE D14-8
BUSHINGS
Door Hinge J10-31
Lift Arm Pin A20-11
Machinery A14-5
BUTTON HEAD GREASE
FITTINGS B15- 2, L14-12-13
BUTTON HEAD SOCKET C/S A10-16
BUZZER, UNIVERSAL....G12-3

C • C • C

C-FOLD TOWELS D14-12
Dispenser....D14-12
C/V JOINT UNIVERSAL BOOT KIT, FWD H17-2
CABINETS
Bins M10-1-2, 7
Drawer....M10-2
Base Stands....M10-2
E-Z View....M10-8
Hose/Cable....M10-7
Labels....M10-7
Storage....M10-7-8
Truck & Van....M10-17
Utility M10-8
Welding Rod....M10-13
CABINET DOORS, 40 BIN M10-2
CABLE
Adhesive Back Tie Base....E12-13
Aircraft....A20-6
Vinyl Coated A20-6
Battery....E11-4
Booster G16-10
Clamps
Adhesive Backed....E12-18
Aluminum Tubing & Cable....E12-17
Nylon E12-18
Clips A20-5
Clips, Steel Insulated Mounting E12-17
Control....G15-26
Marine, UL Listed Multi-Conductor E11-3
Puller A20-3
Push Mount Tie Base....E12-13
Screw Mount Tie Base....E12-13
Stops A20-5
Stripper Tool D11-13
Tie Bases
Adhesive Back....E12-13
Push-Mount E12-13
Screw Mount....E12-13
Tie Rack....E12-9
Ties
Colored....E12-10
Fluorescent....E12-11
Heavy Duty....E12-10
Identification E12-12
In-A-Jar, Industrial E12-12
Mounting....E12-12
Push-Mount E12-12
Rack....M10-14
Releasable....E12-11
Safe-Ty™ Low Profile....E12-11
Stainless Steel....E12-12
Standard E12-10
Trailer Lighting E11-4
Velcro® Wraps E12-14
Welding E11-4, D13-6

C

CAGE NUTS
"J" A11-10, J10-50
Square A11-10
CAM-LOCK WASHERS A14-5
CAMCAR TEXTRON CAMTAINER
FASTENING SYSTEM....A19-20
CAN-GUN AEROSOL SPRAY
CAN TRIGGER HANDLE C14-8
CAN LINERS, HIGH-DENSITY D14-14
CAP SCREWS
Assortments
112 Bin
Grades 5 & 8 ....A10-2
80 Bin
Grades 5, 8 & L9® A10-2-4
40 Bin
Grades 5, 8 & L9® A10-4-5
Steel Tray
Grades 5, 8 & L9® A10-5
Brass A13-19
Bronze....A13-21
Button Head, Socket A10-16
Stainless Steel....A13-5
Flat Head, Slotted A10-10
Flat Head, Socket A10-14
Stainless Steel....A13-5
Full Thread, Grade 5....A12-4
Hex Head
Brass A13-19
Grade 2....A10-10
Grade 5....A10-9
Grade 8 ....A10-7-8
Grade 8.8 ....A16-8-10
Grade L9® A10-6
Metric....A16-6-10
Silicon Bronze....A13-21
SS 18-8 ....A13-1-2
SS 316....A13-3
Low Head, Socket....A10-13
Metric....A16-11
Socket, SS Metric Flat A16-12
Socket Head A10-10-12
Stainless Steel 18-8 ....A13-4-5
Socket Head, Set
Cup Point....A15-21
Knurled Point....A15-21
Stainless Steel 18-8....A13-4
Socket Head, Shoulder A10-15
Stainless Steel....A13-4
Socket Head, Metric A16-11-13
Stainless Steel....A16-28
Socket Head, Stainless Steel A13-4-5
Stainless Steel....A13-1-3
Supralloy L9® A10-6
Tamperproof Socket A10-16-17
CAPPLUGS B13-32
CAPS
Acorn Nut....A11-8
Fuel L13-2
Grease Fitting B15-1, L14-12
Heater Hose L15-2
Oil Filler L13-2
Plugs B13-32
Radiator....L13-1
CAR CLEAN CONCENTRATE C12-12
CARBIDE BITS G16-14-15
CARBIDE BURS (ROTARY FILES) D10C-34
CARBIDE CUTTERS....H11-6
CARBON FLEXBACK BLADES D10C-36
CARBURETOR
Cleaner....C12-10-11
Fuel Injection Hose....L11-1
Clamps....L11-1
Fuel Line/Vacuum Hose L11-1
Hoses L11-1
Pulsating Spray....C12-10
Springs L11-3
Vacuum Caps....L11-3
Vacuum Hose Fittings L11-2-3
CARPET CLEANER C12-4, 13
CARRIAGE BOLTS....A12-2-4
Galvanized....A12-4
Grade 2....A12-3
Grade 5....A12-3

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

C

Ribbed Neck A12-4
Grade 8 (Shaker Screen) A12-2
Stainless Steel A13-6
CARTON SEALING TAPE D14-3
CARTRIDGE ROLLS D10A-9
CAST BLAST CAST IRON PAINT C13-4
CASTLE HEX NUTS, GRADE 5 ....A11-8
CASTLE NUTS, METRIC A16-17
CATALYTIC CONVERTER, FLANGE H19-2
CAULK
3M Strip C11-14
Siliconized Acrylic Latex C11-2
CAULKING GUN D14-10
The "Right Stuff" C11-13
"CAUTION WET FLOOR" FLOOR SIGN D14-8
CEILING HOOK A20-8
CEILING TILE PAINT - NEW WHITE C13-4
CEMENT, CONTACT C11-3
CEMENT, MUFFLER C11-16
CENTER PUNCHES D11-11
CERAMIC EXTREME BRAKE PARTS
LUBRICANT, PERMATEX® C10-13
CERAMIC FUSES G14-2
CHAIN & CABLE
Aircraft Cable A20-6
Vinyl Coated A20-6
Anchor Shackles A20-6
Ball Joints A20-13
Binder A20-3
Breaker A20-12
Cable Puller A20-3
Ceiling Hooks A20-8
Chain
Assemblies
Binder A20-3
Tow A20-3
Brass Safety (Plumbers) A20-2
General Purpose A20-1
Heel Coil A20-1
Inco Double Loop A20-2
Jack A20-2
Lock Link, Single Loop A20-2
Loop A20-2
Passing Link A20-2
Plumbers (Brass Safety) A20-2
Sash A20-2
Stainless Steel A20-3
Straight Link Machine A20-1
System 3 - Proof Coil A20-1
System 4 - High Test A20-1
System 7 - Transport A20-1
Tow A20-3
Twist Link Machine A20-1
Clevis Yoke Ends A20-13
Clevises, Twist & Straight A20-6
Clips, Wire Rope A20-5
Equipment Pins
Hitch Pins A20-11
Lift Arm Bushing A20-11
Lift Arm Pin A20-11
Lynch Pins A20-12
PTO Lock Pin A20-11
Eye Bolts
Bent w/Hex Nuts A20-7
Forged A20-7
Lag Screw Thread A20-7
Lifting A20-7
Ferrules A20-5
Field I.D. Tag A20-3
Hooks
Eye Hoist w/Safety Latch A20-6
Grab, Clevis Style A20-6
Slip A20-6
Snap w/Safety Latch A20-6, 8
"J" Bolts A20-7
Load Binders A20-3
Load Huggers A20-4
Links
Chain A20-4
Cold Shut A20-5
Double Clevis A20-5
Eye & Eye Swivels A20-5
Lap A20-5

DESCRIPTION GROUP / PAGE

C

Master A20-4
Quick A20-5
Repair A20-5
Security Coupling A20-4
Pillow Blocks A20-11
Roller Chain
British Standard Metric A16-22
Drive A20-12
Heavy Series A20-12
Single Strand, Riveted A20-12
Roller Chain Repair
Chain Breaker A20-12
Repair Parts A20-12
Rope
Nylon A20-9
Polypropylene A20-9
Rope Hooks A20-9
Rope Ratchet A20-9
Rubber Straps & Rope A20-9-10
"S" Hooks A20-8
"Infinity" A20-8
Safety Latch Kits, Universal A20-8
Screw Eyes A20-7
Shackles A20-6
Slings, Nylon A20-10
Snap Pear Hooks A20-8
Snaps A20-8
Stops A20-5
Tarps A20-10
Tow Rope A20-4
Turnbuckles
Aluminum A20-7
Steel A20-7
Twine
Chalk & Mason A20-9
Polished Cotton A20-9
Universal Safety Latch Kits A20-8
Wire Rope (Aircraft Cable) A20-6
Clips A20-5
Thimbles A20-5
Vinyl Coated A20-6
CHAIN & CABLE LUBE
Lubriplate C10-5
Moly Gear & Chain Lube C10-5
X-Heavy Gear Shield C10-5
CHALK TWINE A20-9
CHANNELLOCK-GRIPLOCK PLIERS D11-6
CHASSIS GREASE C10-10
CHEMICAL RESISTANT GLOVES D14-19
CHEMICALS, BULK C10-1
CHEMICAL DISPENSERS C14-7-8
CHEWING GUM REMOVER C12-4
CHISELS D11-11
CHROME PAINT C13-4
CHUCKS, AIR B11-3
CIRCUIT BREAKERS G14-5-6
CIRCUIT CHECKER, 7 WAY
Blade Type, LED G15-25
Pin Type G15-25
CIRCUIT PROTECTION
Band H19-4
Circuit Breakers G14-5-6
Fuse Holders G14-4, 7
Fuse Panels G14-8
Fuse Taps E10-30, G14-4
Fuse Tester & Puller G14-4
Fuses
3 AG (AGC) Fast Acting G14-4
(ATO/ATC & E-Z) Fuse Holders
with Protective Cap G14-7
Bolt-On G14-4
Cartridge G14-4
Ceramic G14-2
E-Z (ATC, ATO) G14-1
FLNR Dual Element Time
Delay Cartridge G14-4
Glass G14-2
High Amp & Holders G14-4, 7
JCase™ FMX Series
High Amp G14-3
Low Profile G14-3
LED Indicator Glow G14-1
Low Profile Mini G14-1

DESCRIPTION GROUP / PAGE

C

Maxi™ G14-1
Mega® Bolt-On G14-4
Mini® G14-1
PAL™ G14-3
Fusible Links G14-3
CIRCUIT TESTER D11-14
CITRA-CLEAN DEGREASER C12-1
CITRA-CLEAN II DEGREASER C12-1
CITRA-CLEAN HAND CLEANER C12-9
CITRUS MAGIC C14-4
CLAMP-A-STUD H19-4
CLAMPS
Band H19-4
C/V Boot H17-3
Chain D11-8
Deep Throat D11-8
Emission H19-1
Locking "C" D11-8
Muffler H19-1
Sealclamps H19-4
Truck H19-1
CLAMPS, ADHESIVE BACKED
Flame Resistant PVC Snap E12-18
Nylon Snap E12-18
CLAMPS, HOSE
Constant Torque B12-2
Ear Style
2" B12-3
Stepless B12-4
European Style B12-3
Fuel Injection L11-1
Fuel Injection, Type "G" B12-3
General Purpose B12-1
Hi-Torque Heavy Duty Liner B12-2
Lined B12-2
Micro, Stainless Steel B12-2
Make-A-Clamp B12-3
Muffler, Welded H19-1
Spring Action B12-3
Stainless Steel B12-1
T-Bolt B12-2
Muffler H19-1
CLAW HAMMER D11-11
CLAW, OIL FILTER WRENCH G16-1
CLAW PRONG TEE NUT A11-9
CLEAN 'N STRIP DISCS, 3M D10A-14
CLEANERS
Air Jet C12-2
Aluminum C12-1
Appearance C12-12-13
Battery C12-12
Brake C12-10-11
Car Wash C12-12
Carburetor C12-10-11
Carpet/Upholstery C12-4, 13
Chewing Gum C12-4
Citrus Based C12-1, 9
Cling 'N Clean C12-2
Coil C12-3
CRC Contact Cleaner C12-4
Degreasers C12-2-4, 10-11
Disinfectant/Deodorizer C12-2, 13
Driveway Cleaner DX12 ....C12-5
Electrical/Electronic C12-4
Fastball Alkaline C12-1
Floor, Concentrate C12-1
Fuel Systems C12-10-11
Gasket Remover C12-11
Gel Graffiti Remover C12-2
Glass C12-2, 12
Green Kleen GRK420 ....C14-5
Hand C12-5-9
Kapow Heavy Duty Towels C12-5
Multi-Use C12-12
Parts C12-4, 10-11
Pro-Tech Detail C12-13
Purple-Pro™ C12-1
Scrubs® In-A-Bucket C12-5
Spray Nine C12-2
Stainless Steel C12-1
CLEANING SUPPLIES
Floor D14-8-9
Misc. Brushes D14-9

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

C

CLEAR-VIEW HEAT SHRINK TUBING....E10-18B
CLEAR SILICONE, RTV SEALANT.....C11-1, 12
CLEVIS DOUBLE A20-5
CLEVIS GRAB HOOK A20-6
CLEVIS PINS.....A18-6-7
Stainless Steel.....A13-20A
CLEVIS SLIP HOOK.....A20-7
CLEVIS YOKE ENDS A20-15
CLINCH NUTS® A17-1, J10-52
CLING 'N CLEAN C12-2
CLIPS
Alligator E12-20
Cable A20-5
Convoluted Loom.....E12-16
General Purpose.....E12-20
Keeper H13-1
Loom & Cable E12-16
Nylon Cable E12-18
Steel Insulated Mounting E12-17
Wire Rope A20-6
CLOSED END CONNECTORS.....E12-3, 4B
CLOSED END SEALING BLIND RIVETS..A19-4-5
CLOSURES, CAPPLUGS B13-32
CLOTH, MICROFIBER CLEANING D14-12
CLOTHING, PROTECTIVE D14-18-19
COATED ABRASIVES D10A-5-10
3M Products
Roloc™
Brake Rotor Surfacing Discs .D10A-10
Grinding Discs D10A-10
Sanding Sheets D10A-7-8
Stikit
Disc Pad D10A-7
Gold Disc Rolls D10A-7
Green Disc Rolls.....D10A-7
Cartridge Rolls.....D10A-9
Crocus Cloth Sheets D10A-7
Emery
Cloth Sheets D10A-7
Cloth Utility Rolls.....D10A-7
E-Z Abrasive Flap Wheels.....D10A-6
Fastcut
Bolt On Grinding Discs.....D10A-8
Sanding Sheets.....D10A-7
Wet or Dry Sheets.....D10A-6
Non Loading Sandpaper D10A-7
Plumbers Rolls
E-Z Clean Cloth Roll D10A-7
Grip-Kut Mesh Cloth Roll D10A-7
Silicone Carbide
Screencloth.....D10A-6
Assortment D10A-6
Dispenser Rolls D10A-6
Solid Rubber Drums.....D10A-8
Spiral Bands.....D10A-8
Trim-Kut Discs.....D10A-9
Twist-Lock Mini Grinding Discs D10A-10
Zirconium
Blue Flash Flap Discs D10A-5
Mini D10A-5
Twist-Lock Mini Flap Discs D10A-6
COBALT HEAVY DUTY DRILLS.....D10A-26
COBRA PLIERS D11-7
COIL CLEANER, BIO FOAM
ENZYMATIC FOAMING C12-3
COIL FOAM C14-6
COIL THREAD INSERTS & TOOLS.....A17-5-6
COIL THREAD SPARK PLUG INSERT
REPAIR KIT A17-5
COLD SHRINK TUBING.....E12-7
COLD SHUT LINK A20-5
COLOR CODING TAPE D14-2
COLORED CABLE TIES E12-10
COMB. INT. / EXT. LOCK WASHERS.....A14-5
COMB. RND HEAD MACHINE SCREWS...A15-11
COMBINATION WRENCH SETS.....D11-3-4
COMBO DRILL TAP D10C-30
COME-A-LONG CABLE PULLER A20-3
COMPETITIVE EDGE
Mini Bulbs/Halogen Capsules G13-1, 4-5
COMPLIANCE CENTER &
ACCESSORIES.....M10-6
COMPOSITE PUSH-TO-CONNECT
FITTINGS B13-14-15

C

COMPOUNDING PAD.....D14-11
COMPRESSOR GUARD KIT.....L17-22
COMPRESSION BATTERY TERMINALS E15-8
COMPRESSION BRASS FITTINGS
Double.....B13-18
Standard B13-5, 10
CONDENSER TUBE BRUSHES D10A-2
CONCENTRATED CLEANER/ DEGREASER -
PERFECT SOLUTION.....C14-4
CONCENTRATED U/V DYE L17-19
CONDUCTIVE COPPER COMPOUND,
KOPR-SHIELD.....E15-1
CONDUIT, ELECTRICAL E12-19
CONES
Safety D14-26
CONFORM-A-SLEEVE.....E12-19
CONNECTING LINK
Cold Shut Style A20-5
Rivet Style.....A20-4
CONNECTORS
Auto-Electrical, Conn E12-5
Bullet Receptacle.....E12-4
Cable E12-5
Closed End E12-3, 4B
Communications E12-6
Cooler Line H17-1
Cool Seal Butt E12-4C
Cord E13-1
Deutsch.....E10-31-32
Flat Male, 4-Prong G15-25
Grounding E12-4
Heat Shrink, E-Zview.....E10-18B
In-Line Butt Connectors.....E12-4A
Lamp Socket G11-2-6
Chrysler.....G11-1-2
Ford.....G11-1-2
GM G11-3-4
Miscellaneous G11-5
Universal G11-1, 3
Multi-Link E10-12-18
Posi-Lock E12-4
Quick Disconnect, T-Tap E12-4
Safety E12-3
Scotchlok™, 2 Wire E12-2
Self-Stripping E12-6
Silicone-Filled Safety E12-3
Split Bolt.....E10-33
Step Down Butt.....E10-14A-B, 20, 26, 30
Strain Relief E12-6
Tap, Moisture Resistant.....E12-5
Trailer G15-24-25
Trailer, Electrical.....G15-25
Tru-Lok, Wire E12-4
Waterproof E12-3
Weatherpack G11-9
Wire Nut.....E12-1
CONNECTORS, AIR.....B11-8
Conectors, Wire E12-1
CONQUEST CLEANER & DEGREASER.....C12-1
CONSPICUITY TAPE.....G15-19
CONSTANT TORQUE HOSE CLAMPS.....B12-2
CONTACT CEMENT C11-3
CONTACT CLEANER C12-4
CONTAINER, STORAGE.....M10-9
CONTOUR KNEE PAD D14-18
CONTROL CABLES G15-26
CONTROL VALVE, HIGH PRESSURE G16-5
CONVOLUTED LOOM CLIPS.....E12-16
COOL GEL, HEAT BARRIER SPRAY.....D13-8
COOL SEAL BUTT CONNECTORS.....E12-4C
COOLANT TEST STRIPS.....G16-12
COOLER LINE CONNECTOR H17-1
COOLER LINE RETAINING CLIPS
W/O-RINGS, GM.....H17-2
COOLING SYSTEM HEATER HOSE L15-1
COPPER ANTI-SEIZE.....C10-11
COPPER BATTERY TERMINALS.
HEAVY DUTY E15-6
COPPER BRAKE HOSE GASKET.....H13-3
COPPER CRUSH GASKETS L14-11
COPPER GASKET SEALANT.....C11-4
COPPER SWEAT FITTINGS.....B10-7
COPPER TUBING B13-30
CORD CONNECTORS

C

Ericson® Heavy Duty/Industrial Type E13-1
Heavy Duty/Industrial Type.....E13-1
Industrial Auto-Grip E13-1
Versatile Weather-Resistant
Field Conversion E13-1
CORD PLUGS, ELECTRIC E13-1
CORE DRILL.....D10B-24
CORRECTCONNECT™ UN-PLATED SEAMLESS
COPPER STARTER LUGS E15-10
CORROSION INHIBITOR,
SP-400™ C10-8, C13-1
CORROSION PREVENTIVE COMPOUND,
NYK G15-16
CORRUGATED BIN BOXES M10-9
COTTER PINS
Bow-Tie.....A18-3
Metric A16-22
Stainless Steel A13-17
Steel A18-1-3
COTTON TWINE.....A20-9
COUNTERSUNK BITS.....D10B-22
COUNTERSUNK FINISHING WASHERS.....A14-3
Brass A13-20
Stainless Steel A13-9
COUNTERSUNK TOOTHED L/W A14-5
Stainless Steel A13-9
COUNTR-BOR SCREWS A12-5
COUPLERS
Air Line.....B11-5-9
Non-Marking B11-8
Safety B11-9
COVERALLS, DISPOSABLE.....D14-18
COVERALLS, PAINTERS.....D14-18
COWL VENT
Retainers & Clips.....J10-16-28
CRANKCASE HOSE TEE.....L11-2
CRC®
Battery Cleaner.....C12-12
Battery Terminal Protector.....C12-12
Belt Dressing C13-1
Brakleen® Non-Chlorinated & Low VOC
Brake Parts Cleaner C12-11
Brakleen® Non-Flammable
Brake Parts CleanerPower Lube C12-11
Corrosion Inhibitor,
SP-400™ C10-8, C13-1
Heavy Duty Degreaser C12-4
Industrial 3-36® C10-3
Lectra-Motive®
Electric Parts Cleaner C12-4
Mass Air Flow Sensor Cleaner C12-11
QD™ Electronic Cleaner C12-4
White Lithium Grease with Teflon.....C10-6
CREEPER WHEELS D14-16
CRIMPING TOOL
Wire D11-13-14
CROCUS CLOTH SHEETS D10A-7
CROW BARS.....D11-11
Hold-Down Clip.....D11-11
CUT-OFF WHEELS D10A-12-13
Dispenser M10-14
CUTTERS, CARBIDE.....H11-6
CUTTERS, ROTABROACH® D10C-40
CUTTERS/SNIPS.....D10C-43
CUTTING TOOLS D10C-44-45
Blades
Bandsaw D10C-36
Bandsaw, Carbon Flexback.....D10C-36
Dies, Threading
Hex D10C-28
High Speed Steel.....D10C-29
Metric D10C-28
Stock.....D10C-30
Thread Restoring D10C-31
Drill Bits
Cobalt Heavy Duty D10B-26
Core D10B-24
Countersink Bits.....D10B-22
Double End D10B-22
Dynalloy D10B-20-25
Extension D10B-22
Hex Shank D10B-22
High Speed Steel.....D10B-20-22
Hole Hog D10B-24

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

C-D

Left Hand D10B-25
Letter Sizes D10B-21
Long D10B-22
Masonry D10B-22
Metric D10B-21
Posi-Grip D10B-23-24
Reamer D10B-25
Reduced Shank D10B-19, 22
Rotary Saw D10B-24
Spade Wood Boring D10B-25
Spiral Point D10C-29
Spotweld D10B-25
Titanium Nitride D10B-19-20
Ultra Moly Muscle
Quick Release Style D10B-24
Unibit D10B-26
Step D10B-20
Weldout™ Spotweld D10B-25
Wire Sizes D10B-21
File Handles D10C-43
Files D10C-42-43
Hacksaw Blades D10C-34-35
Hacksaw Frames
High Tension D10C-35
Low Profile D10C-35
Mini D10C-35
Standard D10C-35
Hole Saws D10C-41
Inspect Sticker Scraper D10C-44
Jigsaw Blades D10C-36
Knives D10C-45
Metal Devil® Circular Saw Blades D10C-39
Razor Blades D10C-44
Reamers D10B-25
Reciprocating Saws D10C-36-40
Carbide Grit D10C-37
Saber Saw Blades D10C-36
Screw & Bolt Extractors D10C-33
Superouts D10C-32
Taps
Bottoming D10C-27
Combination Drill-Tap D10C-30
High Speed Spiral Point D10C-29
High Speed Steel D10C-29
Metric D10C-28
Pipe Thread D10C-30
Plug D10C-28
Taper D10C-27
Thread Restoring D10C-31
Wrench D10C-30
Thread Repair Tools
Drill Out D10C-33
Ext. Bolt Rethreading Tool D10C-32
Extractor Tools D10C-31, 33
Int. Thread Restorers D10C-32
Super Outs D10C-32
CUTTING FLUID, TAPMATIC C10-6
C/V BOOT CLAMPS
Universal H17-3
C/V JOINT
Universal Boot Kit H17-2
CYANOACRYLATE ADHESIVES C11-4

D • D • D

D.C. CIRCUIT TESTERS D11-14
D.C. VOLTAGE DETECTOR D11-14
DEAD BLOW HAMMER D11-11
DEBURRING BRUSH G17-1
DECK WASHERS A14-6
DEGREASERS
Aluminum C12-1
Citra-Clean C12-1
Citra-Clean II C12-1
Citrus Cleaner C12-1
Coil & Fin C12-3
Conquest C12-1
CRC Quick Clean C12-4
CRC QD™ C12-4
De-Solv-It Spray C12-3, 10
Electric Motor C12-3

D

Fastball Alkaline C12-1
Magnum HD Industrial Foam C12-3
DE-ICER, ICE-OFF® SPRAY C14-2
DE-ICER, LOCK C14-2
DE-ICER, WINDSHIELD C14-1
DELUXE HANDYMAN FIRST AID KIT D14-22
DEMOISTURANT
Lubriplate C10-10
5 In One C10-3
DEMOLITION RECIP. SAW BLADES D10C-38
DEODORIZER
Aerosol C12-2, 13
Liquid C14-4
Odor Counteractant DRC655 ....C14-4
Odorcide® 210 Concentrate C14-5
Dumpster & Chute C14-5
Original Formula C14-5
DEPRESSED CENTER WHEELS D10A-11
DETAILER BRUSHES D14-7
DETAILING CLEANERS & POLISHES .C12-12-13
DEUTSCH DT SERIES CONNECTORS E10-31-32
Crimping Tool E10-31
Removal Tool E10-31
DEVOUR MILDEW & STAIN REMOVER C14-5
DIAGONAL CUTTING PLIERS D11-7
DIELECTRIC SILICONE GREASE C10-12
DIELECTRIC TAPE D14-1, E12-6
DIES, THREADING D10C-30-31
DIESEL FUEL CONDITIONER C14-2
DIESEL FUEL INJECTOR CLEANER C14-2
DIESEL PEP® W/ANTI-GEL FLOW
IMPROVER L82 ....C14-2
DIFFERENTIAL OIL DRAIN PLUGS L14-7
DIFFERENTIAL & TRANSFER
CASE PLUG, GM L14-7
DIFFERENTIAL PLUG EXTRACTOR G16-7
DISC BRAKE QUIET C11-15
DISC BRAKE CYLINDER HONE G16-13-14
DISC BRAKE PARTS H13-1-4
Anti-Squeak Coating C11-15
Bleeder Screws H13-3
Copper Sealing Gaskets H13-3
Guide Bolts H13-2
Guide Pins H13-2
DISCONNECT/SELECTOR SWITCHES G12-3
DISINFECTANT C12-2, 13
Spray Nine C12-2
DISPENSERS
Drill and Tap M10-12
Hand Cleaner M10-16
DISPENSING JUG C14-7
DISPOSABLE
Gloves
Latex D14-19
Nitrile D14-19
Vinyl D14-19
Plastic Covers
Seat D14-14
Shop Towels D14-12
Wipers D14-12-13
DOOR
Holders, Truck G15-26
DOOR AND INTERIOR TRIM
Door, Quarter, Rocker,
Deck (Trunk) Lid J10-16-28
Door Trim Panel Retainers and Clips
Retainers & Clips J10-16-28
Garnish, Headliner and Interior
Retainers & Clips J10-16-28
Universal / Miscellaneous
Plastic Shield Retainers J10-16-28
Push Pin Removal Pliers J10-16
DOOR AND WINDOW
CRANK HANDLE CLIP J10-13
DOOR HINGE PINS AND BUSHINGS J10-31
DOOR LOCK CLIPS, RETAINERS,
ROD END CLIPS J10-30
DOOR RIVETS A19-7
DOOR TRIM PANEL RETAINERS AND
CLIPS J10-16-28
DOOR WINDOW GLASS GUIDES J10-13
DOT FIRST AID KIT D14-23
DOTTED STRING KNIT GLOVES D14-19

D

DOUBLE-BUBBLE PACKETS C11-6
DOUBLE CLEVIS A20-5
DOUBLE END BITS D10B-22
DOUBLE EXPANSION ANCHORS A21-8
DOWEL PINS A18-6
Metric A16-25
DRAIN COCKS L15-3
Brass L15-3
Socket G16-13
DRAIN FUNNELS G16-8-9
DRAIN OPENER, ALKALINE C14-7
DRAIN PANS G16-9
DRAIN PAN REPAIR KIT A17-6
DRAIN PLUGS
Differential L14-7
Emergency L14-6
Fractional L14-2
Heli-Coil Oil Drain Pan Repair Kits L14-7
"One-Time" L14-2, 6
Magnetic L14-4
Metric L14-3-6
Self-Tapping L14-3
Oversize & Standard L14-2
Pipe Threads L14-2
Rubber L14-7
Seal-Rite L14-7
Steel L14-8
Toggle, Universal L14-6
Toyota Transmission/Trans Axle L14-7
Transfer Case, GM L14-7
Transfer Case, 4WD L14-7
Transmission L14-7
Wingnut Locking L14-6
DRAIN PLUG GASKETS
Aluminum L14-11
BMW L14-10
Chrysler L14-10
Rubber Insert L14-9
Copper L14-11
Copper Crush L14-11
Fibre L14-11
Fold-Over, Hyundai L14-10
Fold-Over, Subaru L14-10
Ford Rubber Insert L14-9
Ford Viton L14-9
GM Viton L14-9
GM Insert L14-10
Honda L14-10
Mercedes L14-10
Nylon L14-11
Nylon Ribbed L14-9
OE Honda Transmission L14-10
Saturn L14-9
Toyota L14-10
Volvo L14-9
DRAIN PLUG PLATE L14-8
O-Ring L14-8
DRAIN PLUG SOCKETS G16-2-4
DRAIN PUNCH C14-7
DRAWER CABINETS M10-2
Base Stand M10-2
DRESSER, GRINDING WHEEL D10A-12
DRESSING, BELT C13-1
DRILL CASES M10-11
DRILL-OUT ™ MICRO POWER
EXTRACTOR D10C-33
DRILL-OUT ™ POWER EXTRACTOR D10C-33
DRILL, PILOT D10C-40-41
DRILL POINT SCREWS A15-9
DRILL N' TAP
Dispensers M10-12
Screws A15-7-9
TEKS® Stainless Steel A13-10
DRILLS
Cobalt Heavy Duty D10B-26
Core D10B-24
Dynalloy D10B-20-22, 23-25
Extension D10B-22
Hex Shank D10B-22
High Speed D10B-20-22
Hole Hog D10B-24
Left Hand D10B-25
Long D10B-22

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

D

Masonry....D10B-22
Pilot....D10C-40-41
Posi-Grip....D10B-23-24
Rotary Saw....D10B-24
Titanium Nitride....D10B-19-20
Ultra Moly Muscle
Quick Release Style....D10B-24
Unibit....D10B-20, 26
Step....D10B-20, 26
Weld Out Spotweld....D10B-25
DRIPLESS OIL....C10-5
DRIVE ADAPTERS....D11-3
DRIVE CHAIN....A20-12
DRIVE GRIP ANCHORS....A21-4
DRIVE SCREW ANCHORS....A21-2
DRIVE SOCKETS & SETS
3/8"....D11-2
1/2"....D11-2
DRIVE TRAIN HARDWARE
C/V
Boot Clamps....H17-3
Boot Kits....H17-2
Pan Bolts....H17-2
Torque Converter
Bolts....H17-1
Nuts....H17-1
Transmission Service Parts
Cooler Line Connectors....H17-1
Cooler Line O-Rings....H17-2
"E" Clips....H17-1
Fittings....H17-1-2
Gearshift Insulators....H17-1
GM Cooler Line Retaining Clips....H17-2
Grommets....H17-1
Inverted Flare Nuts....H17-1
Linkage Pins....H17-1
Plastic Vacuum Tees....H17-1
Quick Disconnects - Transmission/Oil Line....H17-2
Throttle Valve/Passing Gear Rod Grommet....H17-1
Transmission Cooler Hose....H17-2
DRIVERS, NUT....D11-4
DRIVEWAY CLEANER DX12....C12-5
DRIVEWAY SIGNAL BELL....D14-16
DRIVEWAY SIGNAL HOSE....D14-16
DRIVING GLOVES, LEATHER....D14-18
DROP-IN ANCHORS....A21-8
DRUM ACCESSORIES....C14-7-8
Cradle....C14-8
Dolly....C14-8
Faucets....C14-7
Funnel....C14-8, G16-8-9
Plastic Pump....C14-7
Plug Wrench....C14-7
Trolley....C14-8, G16-9
DRUM BRAKE PARTS....H13-4
Adjusting Hole Cover....H13-4
"C" Clips....H13-4
Cotter Pin....H13-4
"E" Clips....H13-4
Holddown Cups....H13-4
Holddown Pins....H13-4
Hose Lock....H13-4
DRUM DOLLY....C14-8, G16-9
DRUM PLUG WRENCHES....C14-7
DRUM PUMP....C14-7
DRUM TOP PADS....D14-25
DRUM TROLLEY....C14-8, G16-9
DRY LUBRICANT, TEFLON....C10-4
DRYWALL SCREWS....A15-19
DUAL LOCK RECLOSABLE FASTENER....D14-5
DUAL O-RING FITTINGS/GASKETS....L17-12
DUBL-BARB BRASS FITTINGS....B13-21
DUCT
Tape....D14-2
DUNK TANK....G16-15
DURACELL BATTERIES....D12-5
DURA DRIVER 10 PIECE SET....D11-9
DUST BRUSH....D14-9
DUST CAPS & PLUGS, HYDRAULIC QUICK COUPLING....B11-9
DUST MASK....D14-20
DUST PAN, RUBBER HD....D14-9

D-E

DX12 DRIVEWAY CLEANER....C12-5
DYE CHARGE....L17-19
DYE, LEAK DETECTION....G16-11
DYESTERCOOL™ OIL....L17-19
DYNA-CUT HOSE CUTTER....G16-12
DYNALLOY DRILLS....D10B-20-22, 23-25
DYNALLOY WIRE SOLDER & PASTE....D13-9
DYNAMOMETER HOSE & ACCESSORIES....D14-6

E • E • E

E-6000™ HIGH STRENGTH SYNTHETIC ADHESIVE/SEALANT....C11-2
"E" CLIPS....A18-7-8
E-Z
Abrasive Flap Wheels....D10A-6
Clean Cloth Roll....D10A-7
Fast Cure Epoxy....C11-10
Fastener System....G18-1-9
Hand Cleaner....C12-8
Metal Cutting Foam....C10-7
Seal Dielectric Compound Tape....E12-6
Wipes....C12-9
EARMUFF, MID RANGE....D14-21
EAR CLAMPS....B12-3-4
2"....B12-3
Stepless®....B12-4
EAR PLUGS....D14-21
EAR STYLE HOSE CLAMPS....B12-3-4
EGR VALVE CARBON FILTER GASKETS....L10-2
EIGHT LAMP SCHOOL BUS ELECTRONIC FLASHER/CONTROLLER....G15-2
ELECTRO-SOLV....C12-3
ELECTRIC MOTOR DEGREASER....C12-3
ELECTRIC PARTS CLEANER, LECTRA-MOTIVE®....C12-4
ELECTRICAL CONDUIT....E12-19
ELECTRICAL CONTACT CLEANER....C12-4
ELECTRICAL TAPE....D14-1
3M Brand....D14-1
Liquid....C11-2, D14-1
ELECTRICAL TUBING....E12-19
ELECTRICAL SERVICE TOOLS
A/C Sensor....D11-14
Circuit Tester....D11-14
D.C. Voltage Detector....D11-14
Terminal Brush....G16-10
Wire Piercing Guide....D11-14
ELECTRONIC BACK-UP ALARMS....G15-20-22
ELECTRONIC CLEANER, CRC QD™....C12-4
ELECTRONIC FLASHER/CONTROLLER EIGHT LAMP SCHOOL BUS....G15-2
ELECTRONIC FLASHERS....G13-1
ELEVATOR BOLTS....A12-1
EMBLEM ADHESIVE....C11-14
EMERY
Cloth Sheets....D10A-7
Cloth Utility Rolls....D10A-7
EMERGENCY EYE & SKIN FLUSH....D14-24
EMERGENCY SEAT BELT KNIFE....D14-26
EMERGENCY SPILL KIT....D14-25
EMISSION
Hose....L11-1
System Clamp....H19-1
ENERGIZER 357 BUTTON CELL BATTERY....D12-5
ENGINE
Assembly Lube....C10-11
Block Sealer....C11-15
Degreaser, Gunk®....C12-11
Drain Pan....G16-9
Hi-Tech Coating Paints....C13-4
Oil/Lubricant–2 cycle....C10-14
Paint....C13-4
Service Tools....G16-12-13
ENGINE BLOCK SEALER....C11-15
ENZYMATIC FOAMING COIL CLEANER, BIO FOAM....C12-3
EPOXY

E

Fast Cure....C11-10
Gorilla....C11-10
Hi-Tech Industrial....C11-11
High-Temp Faststeel....C11-10
Minute Mend....C11-10
Steel....C11-10
EQUIPMENT PINS....A20-11-12
ESTERCOOL™ OIL....L17-17
R134a Oil Charge....L17-18
EUROPASTE....H11-8
EUROPEAN STYLE HOSE CLAMPS....B12-3
EXACT FIT® WIPER RACK....M10-15
EXHAUST
Band Clamps....H19-4
Bolts....H19-3
Clamps....H19-1
Clamp-A-Stud....H19-4
Converter Flange Kit....H19-2
Emission Components....H19-1-2
Flanges
Catalytic Converter Laminated Steel Split Kit....H19-2
Chrysler Split....H19-2
Ford Split Kit....H19-2
Hardware....H19-2-4
Hangers....H19-1
Hardware, Bolts....H19-3
LapJoint Band Clamps....H19-4
Manifold Hardware....H19-2-3
Muffler
Clamps....H19-1
Hangers....H19-1
Nuts....H19-3
Rain Caps....H19-4
Screws....H19-3
Sealclamps....H19-4
Split Flanges....H19-2
Studs....H19-2
System Hangers....H19-1
Washers....H19-3
Weathercaps....H19-4
EXHAUST TOOLS
Pipe Shaper....G16-13
EXHAUST TUBING, GARAGE....D14-6
EXPANDABLE MESH SLEEVING....E12-19
EXPANSION NUTS (JACK NUTS)....J10-51-52
EXTEND PRIMER....C13-1
EXTENDABLE HANDLE BUS BROOMS....D14-8
EXTENSION CORDS....D12-2
EXTENSION DRILLS....D10B-22
EXT. BOLT RETHREADING TOOL....D10C-32
EXTERNAL RETAINING RINGS....A18-7-8
EXTERNAL TOOTHED LOCK WASHER....A14-5
EXTRACTORS
Bolt & Nut....D11-1
Coil Thread....A17-6
Drill-Out ™ Micro Power Extractor....D10C-33
Drill-Out ™ Power Extractor....D10C-33
proGRABIT® Broken Bolt & Damaged Screw Remover....D10C-33
X-OUT™ Damaged Screw RemoverD10C-33
EYE BOLTS....A12-8-9
Lifting....A20-7
EYE HOIST HOOK....A20-6
EYE SWIVELS....A20-5
EYEWEAR, PROTECTIVE....D14-21-22
E-Z ABRASIVE FLAP WHEELS....D10A-6
EZ-BRAKE LINE REPLACEMENT KITS....H15-3
Tubing....H15-3
E-Z CLEAN WATERLESS HAND CLEANER....C12-8
E-Z PAK
Automotive Assortments....G18-2-4
Grade 5 Basic....G18-2
Grade 5 Supplementary....G18-3
Grade 8....G18-4
Refills....G18-5-6
Metric Assortment....G18-7
Refills....G18-8-9
E-Z PROBE....H11-6
E-Z SEAL DIELECTRIC COMPOUND TAPE....E12-6
E-Z SET & FORGET PLIERS....D11-8
E-Z TOGGLE....A21-5

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

E-F

E-Z WIPES C12-9
Dispenser.....C12-9
E-Z VIEW HEAT SHRINK CONNECTORSE10-18B

F • F • F

FABRIC BANDAGES.....D14-23
FACE SHIELDS.....D13-11, D14-20
FACILITY MAINTENANCE ASSORTMENT .A21-1
FACTORY R134a SYSTEM PORTS.....L17-15
FANS, WINTER/SUMMER.....G10-3
FARM & EQUIPMENT
WHEEL STUDS and NUTS.....H14-1, 5
FAST BONDING ADHESIVE, Q-BOND.....C11-2
FAST CURE EPOXY 45 .....C11-10
FASTBALL ALKALINE
CLEANER/DEGREASER.....C12-1
FASTCUT
Sanding Sheets.....D10A-7
Wet or Dry Sheets.....D10A-6
FASTENERS
Acorn Cap Nuts.....A11-8
Metric Hex A16-16
Stainless Steel.....A16-27
B-7 Studs A12-10
Brass Manifold Nuts.....H19-3
Cam Lock Washers.....A14-5
Cap Screws, Hex Head A10-6-10
Grade 2.....A10-10
Grade 5.....A10-9
Grade 8 .....A10-7-8
L9 .....A10-6
Metric.....A16-6-10
Stainless Steel.....A13-1-3
Metric A16-27
Carriage Bolts.....A12-2-4
Copper Asbestos Washer L14-11
Cotter Pins, Metric A16-22
Cotter Pins, Stainless Steel A13-17
Drill & Tap Screws A15-7-9
Dry Wall Screws.....A15-19
Elevator Bolts.....A12-1
External Tooth L/W A14-5
Eye Bolts.....A12-8-9
E-Z Pak.....G18-1-9
Finishing Washers A14-3
Finished Hex Nuts A11-1-3
Metric.....A16-15
Stainless Steel.....A13-6
Metric A16-27
Flange Lock Nuts.....A11-8
Metric.....A16-16
Flat Washers, Grade 8.....A14-1
Flat Washers, Standard A14-2
Brass A13-20
Metric.....A16-18
Stainless Steel.....A13-8-9
Forged Wing Nuts.....A11-8
Metric.....A16-17
Free Spin Wash Nut (Metric) A16-17
L9® Cap Screws A10-6
Hanger Bolts A12-9
Heavy Hex Nuts.....A11-6
Hex Flange Bolts A12-5-6
Metric.....A16-13-14
Hex Head SMS, Unslotted.....A15-5
Hex Lock Nuts, Nylon A11-4-5
Hex Nuts A11-1-3
Brass A13-20
Metric.....A16-6-10
Hex Rod Couplers.....A12-11
Metric.....A16-21
Hi-Collar L/W.....A14-4
Metric.....A16-18
Hi-Nylon Lock Nuts A11-5
Internal Tooth L/W A14-5
Jam Nuts.....A11-7
Metric.....A16-15
Stainless Steel.....A16-27
Keps Nuts A11-7
Lag Screws

F

Galvanized.....A15-16
Stainless Steel.....A13-6
Steel A15-15
Lock Washers A14-4
Metric.....A16-18
Stainless Steel.....A13-9
Machine Screw Washer.....A14-3
Machine Screws A15-10-15
Brass A13-18-19
Metric.....A16-19-20
Stainless Steel.....A13-13-16
Machine Screw, Fillister.....A15-14
Machine Screw, Hex.....A15-15
Machine Screw, Metric A16-19-20
Stainless Steel.....A16-29-30
Machine Screw, Phillips Flat.....A15-11
Metric.....A16-20
Machine Screw, Round.....A15-12
Combination A15-11
Machine Screw, Pan.....A15-13
Machine Screw Nuts.....A11-7
Brass A13-20
Stainless Steel.....A13-7
Nylon Insert Lock Nuts.....A11-4-5
Metric.....A16-16
Stainless Steel.....A13-7
Nylon Washers.....A14-3
Oversize Washers, Fender A14-3
Plow Bolts A12-1
Roll Pins, Metric A16-24
SAE Hi-Nuts, Nylon.....A11-5
Self-Seal Drill/Tap.....A15-8
Sheet Metal Screws.....A15-1-5
Sheet Metal Screws SS A13-11-13
Slotted Hex Washer Head SMS.....A15-4
Slotted Hex Nuts A11-7
Socket Cap Screws A10-10-12
Button Head.....A10-16
Flat Head.....A10-14
Low Head A10-13
Metric.....A16-11-13
Stainless Steel A16-28
Shoulder A10-15
Stainless Steel.....A13-4-5
Tamperproof.....A10-16-17
Socket Set Screws
Cup Point.....A15-21
Knurled Point.....A15-21
Metric.....A16-21
Stainless Steel.....A16-29
Socket Set Screws Metric.....A16-21
Socket Set Screws SS.....A13-4
Spring Center Bolts.....A12-7
Spring Washers, Bowed A14-3
Square Set Screws A15-20
Stamp Wing Lock Nuts A11-9
Stove Bolts.....A12-7-8
Stover Lock Nut Grade 5 .....A11-3
Stover Lock Nut Grade 8 .....A11-3
Stover Lock Nut L9® A11-3
Studs, Metric.....A16-22
Tamper Proof M/S.....A15-19
Tamper Proof S/M Screw.....A15-20
Thread Rod Coupling.....A12-11
Metric.....A16-21
Threaded Rod.....A12-10
Metric.....A16-21
Rod B-7 .....A12-10
Threaded Rod, SS A13-9
Brass A13-19
Metric.....A16-30
Torx Floorboard Screw A15-18
Unthreaded Rod.....A12-10
Well Nuts.....A11-9
Wing Nuts A11-8-9
Metric.....A16-17
Wood Screw Slot Flat A15-16
Wood Screw Slot Round.....A15-18
Wood Screw Slot Oval.....A15-17
Wood Screws, SS.....A13-10-11
Brass A13-17-18
FASTUBE
Air Brake Fittings B13-23-24

F

Caplugs.....B13-32
Compression Fittings.....B13-12-13
FELT TIP MARKERS D14-15
FENDER WASHERS A14-3
18-8 Stainless Steel.....A13-9
Metric A16-18
FENDER, WHEEL OPENING
Retainers & Clips.....J10-16-28
FERRULE
Aluminum Cable & Stops.....A20-5
FIELD I.D. TAG.....A20-3
FIBER DISCS.....D10A-10
FIBER WASHERS A14-6
FIBRE GASKETS.....L14-11
FILE & RASP SET D10C-43
FILE CARD/BRUSH.....D10C-43
FILES
Axle Handled Bastard D10C-43
Cantsaw D10C-42
Card/Brush.....D10C-43
Flat Bastard.....D10C-42
Half Round D10C-42
Handles.....D10C-43
Mill D10C-42
Round Bastard D10C-42
Round Chain Saw D10C-42
Rasp Set D10C-43
Shoe Rasp (4 in 1) D10C-43
Square.....D10C-42
Taper Saw.....D10C-42
Three Square D10C-42
FILTER SERVICE SOCKETS.....G16-2-4
FILTER WRENCHES
Adjustable.....G16-1
"Big Range" G16-1
Import G16-1
"Swivel Grip" G16-1
"The Claw".....G16-1
Wide Range.....G16-1
FILTERS
Automatic Transmission H18-1-9
EGR Valve Carbon Filter
Gaskets L10-2
Fuel L12-1-3
FINISHED HEX NUTS
Brass A13-20
Grade 8 Alloy A11-2
Metric A16-15
Silicon Bronze.....A13-29
Stainless Steel A13-6, 8
Metric.....A16-27
Standard, Steel, Grade 5 .....A11-2
FINISHING WASHERS
Steel, N.P.....A14-3
Brass, N.P.....A13-20
FIRE & RESCUE RECIPROCATING
SAW BLADE.....D10C-39-40
FIRST AID KITS & SUPPLIES.....D14-22-24
FITTINGS
Air Brake B13-23-28
Barb B13-18
Barb-Tite B13-21
Brass Tubing.....B13-7-8
Brass Hose Ends B13-20
Compression.....B13-5, 10
Composite Push-To-Connect B13-14-15
Copper Sweat Pipe.....B10-7
Dubl-Barb Brass.....B13-21
Fastube Instant Tube.....B13-12-13
Fuller Transmission.....B13-18
Grease.....B15-1-3, L14-12-13
Inverted Flare.....B13-5, 7-8
Malleable Iron Pipe.....B10-1-2
Metric Push-To-Connect.....B13-16-17
PVC Schedule 40 Pipe B10-5
PVC Schedule 80 Pipe B10-6
Self-Align.....B13-11
Stainless Steel Pipe.....B10-3-4
FIVE IN ONE DEMOISTURANT.....C10-3
FLANGED LOCKING BOLTS & NUTS.....A12-6
Grade 8.....A12-6
Grade "G".....A12-6
Metric A16-13-14

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

F

Serrated A12-6
FLANGES
Catalytic Converter Laminated
Steel Split Kit H19-2
Chrysler Split H19-2
Ford Split Kit H19-2
GM Converter Repair Kit H19-2
FLAP DISCS, BLUE FLASH D10A-5-6
FLAP WHEELS D10A-14
FLARE NUT WRENCH....D11-4
FLASHERS
Alternating G13-1
Electronic....G13-1
24 Volt G13-1
FLASHLIGHTS....D12-4
Bulbs D12-4
FLAT HEAD SLOTTED CAP SCREWS....A10-10
FLAT HEAD SOCKET CAP SCREWS....A10-14
FLAT HEAD PHILLIPS TYPE
"F" SCREWS....A15-18
FLAT TIRE ELIMINATOR, SLIME™ H11-7
FLAT WASHERS
Brass A13-20
Galvanized....A14-4
Grade 8 ....A14-1
Hi-Strength Steel....A14-2
Metric A16-18
Nylon A14-3
Silicon Bronze....A13-21
Stainless Steel....A13-8-9
Standard Alloy....A14-2
Steel A14-2
Supralloy, L9®....A14-1
FLEET MAINTENANCE ASSORTMENT E15-16
FLEET SERVICE
7-Way Circuit Checker....G15-25
Air Brake Parts & Accessories....G15-27
Back-Up Alarm Activating Switch G15-20
Back-Up Alarms G15-20-22
Brackets....G15-4, 20, 26
Conspicuity Tape....G15-19
Control Cables....G15-26
Evacuator® Heavy Duty
Electronic Back-Up Alarms....G15-20
Flat Male 4-Prong Connector G15-25
Fluorescent Orange Guide Kits G15-26
Gladhand/Seals....G15-27
GM License Plate Lamp G15-20
Heavy Duty Back-Up Alarm....G15-21
Hold-Down Latches G15-26
Hose Protectors....G15-24
Junction Box....G15-16
Latches & Brackets....G15-26
Light Duty Electronic Solid State
Alternating Alarm....G15-21
Lighting
Arrow....G15-1
KD G15-1
Star....G15-22
Truck-Lite
Back-Up Lighting G15-11
Clearance & Marker Lighting ..G15-5-8
Conspicuity &
Reflector Systems....G15-12
Harness Systems....G15-16
Identification Bar Lighting G15-9
Interior & Utility Lighting....G15-12
License G15-11
Mounting Accessories G15-13-14
Receptacles & Accessories G15-16
Sockets & Plugs....G15-15
Stop, Turn & Tail Lighting G15-9-10
Strobe G15-10
Val-U G15-17-18
Weldon....G15-2
Maintennace Asst. E15-16
Mirrors
Arm & Mounting Only....G15-4
Bracket....G15-4
Bus Boy....G15-4
Convex....G15-3-4
Delbar....G15-3
Double Nickel....G15-3
Mini Hawk-Eye G15-4

DESCRIPTION GROUP / PAGE

F

MirrorLite....G15-3
Miscellaneous G15-4
Retrac....G15-4
West Coast....G15-3
NYK Corrosion Preventive
Compound....G15-16
Plug Cleaners....G15-25
Reflective Tape....G15-19
Reflectors G15-12, 19
Strobes....G15-22-23
Trailer Lighting Cable G15-25
Trailer Taillite Converter G15-25
Trailer Wire Connectors G15-24-25
Triangle Reflector Kit....G15-12
Truck Hardware....G15-26
Universal License Plate Bracket....G15-20
Universal Snow Plow/ATL Lights....G15-23
West Coast Mirror....G15-3
Work Lamps G15-23
FLEX TUFF GLOVES....D14-19
FLEXEEL® REINFORCED POLYURETHANE
STRAIGHT HOSE....B11-1
FLEXIBLE BUMPER & TRIM PAINT....C13-4
FLEXIBLE HOLDDOWN LATCH....G15-26
FLEXTITE "LAPJOINT" BAND CLAMPS H19-4
FLO-THRU PARTS CLEAN BRUSH D14-7
FLOORBOARD SCREWS....A15-18
FLOOR BRUSH, 36" POLYPROPYLENE D14-9
FLOOR COVERS
Paper Floor-Mate® Plastic Coated D14-14
FLOORTIGHT RIVETS....A19-18
FLUORESCENT BULB D12-1
FLUORESCENT ORANGE GUIDE KITS....G15-26
FLUORESCENT PAINT C13-3
FLUORESCENT MESH SAFETY FLAG....D14-26
FLUORESCENT TROUBLE LIGHT D12-2
FLUORESCENT WORK LIGHTS....D12-3
FLUSH
Radiator C14-3
FLUSHING TEES L15-2
FLUX PASTE....D13-10
FLUX POWDER....D13-10
FLY AWAY WIPES....C14-1
FMX JCASE™ SERIES FUSES
High Amp....G14-3
Low Profile....G14-3
FOAM BRUSHES D14-10
FOAM EXPANDO-INSULATION....C11-2
FOLD OVER GASKETS L14-10
FOOD GRADE CHAIN LUBE,
INDUSTRIAL C10-5
FOOD GRADE SILICONE....C10-4
FOOD GRADE SILICONE, INDUSTRIAL C10-4
FOOD PROCESSING & SERVICE
STAINLESS STEEL HARDWARE ASST....A13-3
FOOT OPERATED FLOOR SWITCH G12-3
FORD FUEL FILTER CLIP L12-4
FORD SOCKETS/PIGTAILS
Electrical Repair Harness....G11-2
Engine Management G11-5
Heating/A/C Cooling System....G11-5
Interior/Dash....G11-5
Lighting....G11-3
Miscellaneous....G11-5
FORM-A-GASKET....C11-3
FORMED HEATER HOSE L15-1
FRAMES, HACKSAW D10C-34-35
FREEZE & RELEASE C10-4
FRESH N'KOOL....C12-13, L17-20
FRESH WAVE NATURAL ODOR
ELIMINATOR C14-4E
FRICTION TAPE....D14-1
FRONT INTRO PAGES ....INTRO PAGES A - E
FRONT WHEEL DRIVE
Boot Clamps H17-3
C/V Joint Boot Kit....H17-2
C/V Joint Grease C10-7
FUEL
Caps L13-2
Filters L12-1-3
Chrysler/Dodge/Jeep L12-3
Ford....L12-2
General Motors L12-1
Import....L12-3

DESCRIPTION GROUP / PAGE

F-G

Universal L12-1
Filter Clip L12-4
Injection Hose....L11-1
Clamps....L11-1
Injector Cleaner C14-2
Air System Intake C12-10
Diesel C14-2
Line/Vacuum Hose L11-1
Line Accessory Kit....L12-6
Line Clips....L12-4
Line Quick Disconnects & Clips L12-5
Line Repair....L12-5-6
Line Replacement Kit L12-6
Line Retainer Clips....L12-4
Tank Repair Kit C11-16
Tank Valves....B13-28-29
Trans/Air Condition Disconnect Set....G16-11
FUEL SYSTEM PARTS....L11
Fuel Injection Hose....L11-1
Fuel Injection Hose Clamps L11-1
Fuel/Line Vacuum Hose L11-1
Hoses L11-1
Springs L11-3
Vacuum Caps....L11-3
Vacuum Hose Fittings L11-2-3
FUEL TANK REPAIR KIT C11-16
FULLER TRANS. BRASS FITTINGS....B13-18
FUNNEL G16-8-9
FUSE
Clip Adapter E10-30
Holders G14-4, 7
Panels....G14-7
Taps E10-30, G14-4
Testers & Puller....G14-4
FUSES
3 AG (AGC) Fast Acting G14-4
(ATO/ATC & E-Z) Fuse Holders with
Protective Cap....G14-7
Bolt-On G14-4
Cartridge....G14-4
Ceramic G14-2
E-Z (ATC, ATO)....G14-1
FLNR Dual Element
Time Delay Cartridge....G14-4
Glass G14-2
High Amp & Holders G14-4, 7
JCase™ FMX Series
High Amp G14-3
Low Profile G14-3
LED Indicator Glow....G14-1
Low Profile Mini G14-1
Maxi™ G14-1
Mini® G14-1
PAL™ G14-3
FUSIBLE LINKS....G14-3
FWD C/V JOINT UNIVERSAL BOOT KITS ..H17-2

G • G • G

GFCI E13-1
GM BRAKE CALIPER THREAD
REPAIR KIT....A17-6
GALVANIZED FASTENERS
Carriage Bolts A12-4
Flat Washers....A14-4
Hex Nuts A11-6
Lock Washers A14-4
Self Sealing, Bonded Washers A14-6
GALVANIZED PIPE FITTINGS B10-1-2
GALVANIZING COMPOUND C13-3
GARAGE EXHAUST TUBING D14-6
Dyno Hose D14-6
GARTER SPRINGS L17-12
GAS CANS
Spill-Proof, Plastic....D14-16
Steel Safety D14-16
GAS LINE ANTI-FREEZE C14-2
GAS STABILIZER C14-2
GASKET
Adhesive....C11-3-4, 12-13
Air Conditioning

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

G

Metal & Fiber L17-3
Cleaner....D10A-15
Copper Brake Hose H13-3
Drain Plug L14-9-11
Fibre L14-11
Fold Over....L14-10
Ford Rubber Insert L14-9
Fractional....L14-11
Fuel Inlet....L12-4
Honda....L14-10
Insert L14-9
Material....L15-1
Mercedes/BMW....L14-10
Metric Drain Plug....L14-11
Permatex® The Right Stuff C11-13
Remover C12-11
Ribbed Nylon....L14-9
Saturn....L14-9
Sealant-Adhesives
Aluminum C11-1
Copper Sealer C11-4
High Tack Spray & Brushable C11-4
Tack And Bond....C11-15
Seal-Rite....L14-7
Sheet Material L15-1
Specialty....L14-9-10
Toyota L14-10
Viton Insert L14-9
Volvo L14-9
GATE VALVES....B10-8
GAUGES
Drill D11-12
Inch Nut & Bolt....D11-12
Metric Bolt & Nut....D11-12
Plastic D11-12
Screw & Wire D11-12
Thread D11-12
GAUGES, TIRE PRESSURE G16-16
GEAR AND CHAIN
Gear-Kote C10-5
Heavy Duty Lubricant
Aerosol C10-5
Caulking Style Cartridge....C10-8
Moly Gear & Chain Lube C10-5
Lubriplate....C10-5, 8
GEL GRAFFITI REMOVER....C12-2
GELTABS, PAN-STICKER C14-6
GEL-TAC EXTRA WITH TEFLON C10-5
GEL VANDAL MARK REMOVER....C12-2
GENERAL PURPOSE ANTI-SEIZE C10-11
GENERAL PURPOSE GREASE....C10-11
GLADHANDS & SEALS G15-27
GLASS CLEANER C12-2, 12
GLASS CLOTH HI-TEMP TAPE....D14-1
GLASS-N-DASH MULTI-USE CLEANER...C12-12
GLASSES, SAFETY....D14-21-22
GLOVES D14-18-19
Chemical Resistant....D14-19
Disposable
Latex D14-19
Nitrile D14-19
Vinyl D14-19
Dotted String Knit....D14-19
Driving D14-18
Flex Tuff....D14-19
Insulator....D14-19
Kevlar D14-18-19
Microflex
Diamond Grip™....D14-19
Nitron One® D14-19
Polar Insulated Leather Palm D14-19
PVC Non-Slip....D14-19
Ranch Hand....D14-18
Utility D14-18
Work
Brown Jersey, with & without D14-19
Heavy Canvas....D14-18
Heavy Duty....D14-18
GLOW LED INDICATOR FUSES G14-1-2
GLUE
E-6000 ....C11-2
Future C11-4
Gorilla® C11-3

G

Instantbond 110....C11-4
Rear View Mirror....C11-16
Super Glue....C11-4
Super Glue (Permatex)....C11-13
Super Glue Gel (Permatex) C11-13
GM BASE MOUNT E15-15
GM COOLER LINE RETAINING CLIPS
W/O-RINGS H17-2
GM SOCKETS/PIGTAILS
Alternator/Regulator G11-6
Electrical Repair Harness....G11-3
Engine Management G11-7
Heating/A/C Cooling System....G11-7
Ignition System....G11-6
Interior/Dash....G11-6
Miscellaneous....G11-7
GOGGLES, WELDING D13-7
Safety D14-21
GOJO
Hand Cleaner....C12-8
Hand Medic....C12-8
Wall Mount Dispenser C12-8
Pro 2000 Industrial Dispens. System....C12-8
Wipes C12-8
GOLD GREASE, 24K....C10-13
GORILLA EPOXY....C11-10
GORILLA GLUE® C11-3
GORILLA GLUE® PEN....C11-3
GORILLA SUPER GLUE....C11-3
GORILLA TAPE® D14-3
GRAB HOOK....A20-6
GRAVEL GUARD II, UNDERCOAT C13-1
GREASE
Anti-Seize C10-11-12
Brake Caliper C10-13
Chassis....C10-10
C/V Joint C10-7
Dielectric Silicone C10-12
Freewheel....C10-14
Gear Shield....C10-5, 8
Gear & Chain & Cable C10-5
General Purpose....C10-13
Gold, Non-,Melt....C10-13
Moly-Lube....C10-5-6
Multi-Purpose C10-10-11
Red, Aerosol....C10-4
Tune-Up, Permatex® C10-12
Ultra-Plex Premium Red E.P. C10-13
Wheel Bearing C10-13
White Lithium....C10-7
White, Aerosol C10-6
White, Tube C10-8
GREASE FITTING EASY-OUT
TOOL B15-1, G16-8, L14-12
GREASE FITTINGS
Caps B15-1, L14-12
Easy-Out Tool G16-8, L14-12
Fractional....B15-2-3, L14-12-13
Hydraulic L14-12-13
Metric B15-2-3, L14-12-13
Stainless Steel....B15-2-3, L14-12-13
GREASE GUN....G16-8
Accessories G16-6
Air G16-8
GREEN KLEEN GRK420 ....C14-5
GREZ-OFF® HEAVY DUTY DEGREASER ...C12-3
GRINDING BRUSHES & WHEELS .D10A-3, 11-12
GRINDING DISCS....D10A-8, 10
Roloc D10A-10
GRINDING WHEELS D10A-11-12
Dispenser M10-14
Dresser....D10A-12
GRILLE, COWL & SPLASH SHIELD
Retainers & Clips....J10-16-28
GRIP-KUT MESH CLOTH ROLL....D10A-7
GRIP-N-SERT THREADED INSERTS A17-2
GROMMETS
Body J10-32-34, 38, 41
Open / Closed Nylon....E12-15
Rubber E12-14, J10-41
Standard Nylon E12-15
Transmission H17-1
Universal Nylon....E12-15

G-H

GROOVE JOINT PLIERS....D11-7
GROUND FAULT CIRCUIT INTERRUPTER E13-1
GROUND STRAPS....E15-3
GUIDE BOLTS....H13-2
GUIDE PINS H13-2
GUN
H.D. Hot Air Heat....D11-14
Rivet A19-26
GUNK® ENGINE DEGREASER....C12-11

H • H • H

HACKSAW BLADES....D10C-34-36
HACKSAW FRAMES
Close Quarter....D10C-35
High Tension....D10C-35
Low Profile D10C-35
Mini D10C-35
Standard....D10C-35
HAIR PINS, STAINLESS STEEL A13-16
HALOGEN
Capsules G13-1-2
Competitive Edge....G13-1
Headlamps G13-2
HAMMERS D11-11
HAMMERS, FOR WELDING D13-6
HAND CLEANER C12-5-9
Citra-Clean....C12-9
Dispenser C12-6, 8-9, M10-16
Gojo C12-8
Invisible Glove™ C12-8
Wonder C12-9
Worx™ C12-5
HAND CLEANER TOWELS....C12-5, 8-9
HAND CREAM....C12-8
HAND PADS D10A-16
HAND SANITIZERS C12-8
HAND SPRAYERS....C14-7-8
HAND TOOLS
Acid Brush D14-7
Aviation Snips D10C-43
Ball Driver, Hex Key....D11-5
Bit Holders D11-10
Blind Rivet Gun A19-26
C-Clamp....D11-8
Center Punches D11-11
Chisels....D11-11
Clamps D11-8-9
Cobra Pliers....D11-7
Compact H.D. Crimper D11-13
Crimper/Stripper D11-13-14
Open Barrel Term G16-11
Crow Bar....D11-11
Electrical Service
A/C Sensor....D11-14
Circuit Testers D11-14
Voltage Detector....D11-14
Wire Piercing Guide D11-14
Flo-Thru Parts Brush D14-7
Gauges D11-12
Hammers
Ball Pein D11-11
Claw D11-11
Dead Blow....D11-11
Rubber Mallets D11-11
Soft Face D11-11
Welding D13-6
Heat Guns....D11-14
Hex Bit Socket Set....D11-2
Hex Drivers, Magnetic D11-2, 10
Hex Key Sets....D11-5-6
Bondhus D11-5
Hex Keys, Torx D11-6
Hex Keys, Fractional....D11-5
Hex Keys, Metric....D11-5
Hex Keys, Tamperproof....D11-6
Hose Clamp Pliers....G16-12
Hose Cutter, Hand Held G16-12
Insert Bits....D11-1-2, 10
Holders....D11-10
Lug Crimpers D11-13

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

H

Magnetic Hex Drivers D11-2, 10
Magnetizer/Demagnetizer.....D11-10
Multi-Grip Universal Socket D11-1
Nut Drivers.....D11-4
Offset Box Wrenches.....D11-3
Parts Cleaning Brushes.....D14-7
Pin Punches.....D11-11
Pipe Wrenches D11-4
Pliers
Channellock-Griplock D11-6
Cobra.....D11-7
Diagonal Cutter D11-7
E-Z Set & Forget D11-8
Groove Joint.....D11-7
Linesman.....D11-7
Long Nose.....D11-7
Retaining Ring, Internal.....D11-7
Retaining Ring, External.....D11-7
Slip Joint.....D11-6-7
Solid Joint.....D11-6
Vise Grip.....D11-8
Wire Cutter.....D11-6-7
Pry Bar.....D11-11
Punches.....D11-11
Ratcheting Crimper.....D11-3-14
Ratchets
3/8" Drive Spin A Ratchet.....D11-3
3/8" Drive Quick Release D11-3
Blackhawk D11-3
Rivet Guns A19-26
Rulers & Gauges
Fractional Drill D11-12
Inch Bolt-Nut Gauge.....D11-12
Metric Bolt-Nut Gauge.....D11-12
Metric Thread Pitch D11-12
Plastic Rulers D11-12
Pocket Caliper.....D11-12
Pocket Ruler.....D11-12
Standard Thread D11-12
Tape Rulers.....D11-12
Screwdrivers
Blackhawk D11-9
Insulated.....D11-9-10
Phillips.....D11-9
Precision.....D11-10
Ratcheting D11-9
Slotted D11-9
Sheet Metal Cutters D10C-43
Socket Sets
Hex D11-2
Torx® Tamper-Proof.....D11-1
Tube Bender B13-31
Tube Cutter.....B13-31
Utility Snips D10C-43
Vise Grips D11-8
Wire Cutters.....D11-13
Wire Crimpers.....D11-13-14
Wrench
Blackhawk D11-4
Combination.....D11-3-4
HANDLES
Door, Truck.....G15-26
File D10C-43
Mop D14-8
HANDYMAN, DELUXE FIRST AID KIT D14-22
HANGER
Bolts A12-9
Strapping, Perforated.....D14-15
HANGERMATE® THREADED ROD
ANCHORING SYSTEM A21-9
HARD HATS.....D14-20
HARNESS, TRUCK BATTERY E15-3
HASPS D14-26, G17-10
HAZARD STRIPE TAPE D14-4
HEADLIGHT
Lens Restoration Kit C11-16
Sealed Beams/Headlamps.....G13-2
HEAT ABSORBING PASTE D13-8
HEAT BARRIER SPRAY, COOL GEL.....D13-8
HEAT GUN D11-14
HEAT SHRINK TUBING E10-18B, E12-8-8B
Dispenser E12-8B
HEATER HOSE.....L15-1
Connectors.....L15-2

H

Fittings.....L15-2
Formed.....L15-1
Nylon Elbows.....L15-2
Red Insulated L15-1
Silicone.....L15-1
HEATER VALVES, MANUAL.....B13-29
HEAVY DUTY COBALT DRILLS.....D10B-26
HEAVY DUTY DEGREASER, GREZ-OFF® ..C12-3
HEAVY DUTY INDUSTRIAL
FOAM DEGREASER, MAGNUM C12-3
HEAVY HEX NUTS.....A11-6
18-8 Stainless Steel.....A13-7
HEEL COIL CHAIN.....A20-1
HELI-COIL OIL DRAIN PAN REPAIR KIT....A17-6
HEX BIT SOCKET SET.....D11-2
HEX DIES D10C-28-29
HEX DRIVERS.....D11-2, 10
HEX FINISHED NUTS
Grade 2.....A11-3
Grade 5.....A11-2
Grade 8.....A11-2
Supralloy L9®.....A11-1
HEX FLANGE BOLTS.....A12-5-6
Serrated A12-6
HEX HEAD CAP SCREWS
Flange Bolts.....A12-5-6
GR-2 .....A10-10
GR-5 .....A10-9
GR-8 .....A10-7-8
L9® A10-6
Metric A16-6-10
Silicon Bronze.....A13-21
Small Head Metric.....A16-10
Stainless Steel.....A13-1-3
HEX HEAD, UNSLOTTED SMS.....A15-5
HEX KEY, T-HANDLE.....D11-5
HEX KEY WRENCH SETS.....D11-5-6
HEX KEY WRENCHES, METRIC D11-5-6
HEX NUTS
Acorn, Metric.....A16-16
Stainless Steel.....A16-27
Brass, Metric A16-17
Castle, Metric A16-17
Copper, Metric A16-17
Finished 10.9, Metric.....A16-15
Finished 8.8, Metric.....A16-15
Flange, Metric A16-16
Free Spinning Washer, Metric A16-17
Galvanized.....A11-6
Grade 5 Castle.....A11-8
Jam, Metric A16-15
Stainless Steel.....A16-27
Left Hand A11-6
Nylon A13-22
Stainless Steel A13-6, 8
HEX SERRATED WASHER HEAD TEKS® ...A15-8
HEX SHANK DRILLS.....D10B-22
HEX SOCKET BITS.....D11-2
HEX TAP BOLTS A12-4-5
HI-AMP CIRCUIT BREAKERS G14-5
HI-NUTS A11-6
HI PRESSURE MOLY LUBE.....C10-6
HI-TECH ENGINE COATING PAINTS.....C13-4
HI-TECH INDUSTRIAL EPOXY SYSTEMS C11-11
HI-TORQUE HEAVY DUTY LINER
HOSE CLAMPS.....B12-2
HIGH COLLAR SPLIT L/W STEEL.....A14-4
HIGH-DENSITY CAN LINERS D14-14
HIGH PRESSURE CONTROL VALVE G16-5
HIGH PRESSURE SWIVEL G16-5
HIGH SPEED STEEL DRILLS.....D10B-20-22
HIGH STRENGTH L/W STEEL A14-4
HIGH TACK
Brushable.....C11-4
Spray A Gasket.....C11-4
HIGH-TEMP COPPER SILICONE
HIGH TEMP GREASE, LUBRIPLATE C10-8
HIGH TEMP RED RTV SILICONE
GASKET MAKER, PERMATEX®.....C11-1, 13
HIGH TEST CHAIN.....A20-1
HITCH PIN COTTERS A18-1
HITCH PINS.....A20-11
HOG RINGS J10-37
Pliers J10-37

H

HOLD-DOWN CLIP, CROW (PRY) BAR D11-11
HOLE HOG DRILLS.....D10B-24
HOLE SAWS.....D10C-41
Arbors D10C-41
HOLLOW WALL ANCHORS
Drive Grips.....A21-4
E-Z Toggle A21-5
Master Grips A21-4
Rawl Legs™.....A21-5
Rawl Zip-It™ A21-5
Super Toggler® (Toggler™).....A21-4
Toggle Wings and Bolts.....A21-3-4
Toggler® Toggle Bolts A21-3
Utility Hook.....A21-5
Wall Grips A21-4
HONDA® VEHICLE
Power Steering Fluid C14-4
HONE, DISC BRAKE CYLINDER.....G16-13-14
HOOD HOLDER D14-16, G16-1
HOOD LATCHES G15-26
HOOKS
Ceiling.....A20-8
Clevis A20-6
Eye A20-7
Grab A20-6
Infinity "S" Hooks.....A20-8
"S" A20-8
Safety A20-6
Slip A20-6
Utility A21-5
HORNET & WASP KILLER.....C14-1
HORNS
Universal.....G12-4
HOSE
Air Brake.....B13-27-28
Air Hose Separators G15-27
Air Line.....B11-1
Air Tool B11-1-2
Assemblies.....B13-27
Cabinet, Hose & Cable.....M10-7
Carburetor L11-1
Couplers, Air B11-5-9
Couplers, Water.....D14-17
Driveway Signal.....D14-16
Fittings.....B13-23-28
Flexeel® Reinforced Polyurethane
Straight.....B11-1
Fuel L11-1
Fuel Line, Injection L11-1
Heater.....L15-1
Fittings L15-2
Silicone L15-1
Menders.....D14-17
Nozzles.....D14-17
Protectors G15-24
Push-On
Fabric Cover.....B13-22
Rubber Cover.....B13-22
Radiator.....L15-1
Recoil Air.....B11-1
Signal D14-16
Splicer.....D14-16
Tees L11-2
Transmission Cooler.....H17-2
Vacuum/Wiper.....G10-3, L11-1
Water Hose.....D14-17
HOSE CLAMPS
Constant Torque B12-2
Ear Style B12-3-4
2" B12-3
Stepless® B12-4
European Style B12-3
Fuel Injection, Type "G" B12-3
General Purpose.....B12-1
Hi-Torque Heavy Duty Liner B12-2
Hose Ferrules B12-4
Crimping Tool B12-4
Lined B12-2
Make-A-Clamp.....B12-3
Micro, Stainless Steel B12-2
Norma Torro® B12-3
Pincers (Plier Tool) B12-4
Spring Action.....B12-3
Stainless Steel B12-1

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

H-I

Standard Steel 100%.....B12-1
T-Bolt B12-2
Type "G" Fuel Injection B12-3
HOSE CLAMP PINCERS B12-4
HOSE COIL, U-BEND.....L15-2
HOSE CUTTER, HAND HELD.....G16-12
HOSE ENDS B13-20
HOSE FERRULES, BRASS B12-4
Crimping Tool.....B12-4
HOSE FITTINGS L15-2
Elbows.....L15-2
Flushing Tees.....L15-2
Heater By-Pass Caps.....L15-2
Reducing Hose Splicer.....L15-2
Reducing Tees L15-2
Splicers.....L15-2
Tees L15-2
HOSE MENDERS, BARBED.....D14-17
HOSE PROTECTORS.....G15-24
HOSE REPAIR KIT, 3/8" AIR BRAKE.....B13-27
HOT AIR GUN D11-14
HP8 POWERBOLT RIVETS.....A19-21
HUCK FASTENER TOOLING A19-24
HUCK-FIT POWERBOLT RIVETS.....A19-22
HUCKTAINER RIVETS.....A19-19
HYDROMETER, WINDSHIELD WASHER SOLUTION G16-13
HYDRAULIC BRAKE LINES & FITTINGS
Brake Lines
Fittings.....H15-2, 4-6
Steel (Fractional & Metric).....H15-1
Unions H15-2
Copper Flex Line Gasket.....H15-5
Hose Inlet Flex Line Bolts.....H15-5
Steel & Nylon Tubing Retainer Clips H15-5
Steel Tubing.....H15-2
PVF Coated.....H15-2
HYDRAULIC BRAKE FLUID.....C14-3
HYDRAULIC GREASE FITTINGS.....L14-12-13
HYDRAULIC JACK OIL C10-9, C14-3
HYDRAULIC O-RINGS.....B14-5
HYDRAULIC QUICK COUPLINGS B11-9
Dust Caps and Plugs B11-9
HYDRAULIC FITTINGS, CAPPLUGS.....B13-32
HYDRAULICS - WEATHERHEAD B29-1

I • I • I

IBUPROFEN TABLETS D14-23
ICE-OFF® SPRAY DE-ICER C14-2
I.D. TAG A20-3
IGNITION
Sealer C11-16
Service Tools.....G16-11
IGNITION SEALER.....C11-16
IN A BUCKET, SCRUBS® C12-5
INCO DOUBLE LOOP CHAIN.....A20-2
INDICATOR LIGHTS.....G12-2
INDUSTRIAL BATTERIES D12-5
INDUSTRIAL BATTERY CONNECTORS E15-7
INDUSTRIAL CABLE TIES, IN-A-JAR E12-12
INDUSTRIAL CRC 3-36® C10-3
INDUSTRIAL FOOD GRADE SILICONE C10-4
INDUSTRIAL FOOD GRADE CHAIN LUBE.C10-5
INDUSTRIAL ALL NATURAL HAND CLEANER, WORX C12-5
INDUSTRIAL MARKERS D14-15
INDUSTRIAL PLUGS E13-1
"INFINITY" S-HOOKS A20-8
INFLATOR GAUGE.....B11-2
INJECTION CLEANER, DIESEL.....C14-2
INJECTION CLEANER, FUEL C14-2
INLINE BLOW GUNS B11-4
IN-LINE BUTT CONNECTORS.....E12-4A
IN-LINE PORTABLE GFCI RECEPTACLES E13-1
IN-LINE WATER SEPARATOR & AIR FILTER.....B11-2
INNER & OUTER CAP NUTS H14-10
INSECT CONTROL BUGBAND WRISTBANDS D14-26

I-J-K

INSECT REPELLANT WIPES.....C14-1
INSECTICIDES.....C14-1
INSERT BITS.....D11-1-2, 10
Holders D11-10
INSERT GASKETS, GM L14-10
INSERTS, BRASS WOOD.....A11-9
INSPECTION STICKER SCRAPER D10C-44
INSTANT HAND SANITIZER C12-8
INSTANT LIQUID & VOMIT ABSORBENT...C14-6
INSULATED SCREWDRIVER D11-9-10
INSULATION TAPE L17-20
INSULATOR GLOVES D14-19
INTEGRAL LED STROBE LIGHTS.....G15-12A
INTERLEAF FLAP WHEELS.....D10A-14
INTERNAL PIPE WRENCH.....D11-4
INTERNAL RETAINING RINGS.....A18-7-8
INTERNAL THREAD RESTORERS D10C-32
INTERNAL TOOTHED LOCK WASHER A14-5
INVERTED FLARE BRASS FITTINGS ..B13-5, 7-8
INVISIBLE GLOVE™ BARRIER CREAM.....C12-8

J • J • J

"J" BOLTS A20-7
"J" SPEED NUTS.....A11-10, J10-34-36, 50
J-B WELD C11-10
JCASE™ FMX SERIES FUSES
High Amp.....G14-3
Low Profile.....G14-3
JACK CHAIN A20-2
JACKETED PLASTIC PRIMARY WIRE.....E11-3
JAM NUTS, STEEL A11-7
JIGSAW BLADES.....D10C-35
JUMBO ROLL WIPER DISPENSER II.....D14-14
JUMPER CABLES G16-10
JUNCTION BOX.....G15-16

K • K • K

KAPOW HEAVY DUTY TOWELS.....C12-5
KEEN SERTS, THREAD REPAIRS A17-3-4
KEPS NUTS, STEEL A11-7
KEEPER CLIPS.....H13-1
KEVLAR ARM PROTECT & GLOVES ..D14-18-19
KEY CUTTERS & BLANKS
Cam Locks.....G17-10
Cutter Wheel.....G17-1
Deburring Brush G17-1
Hasps G17-10
Key Blanks
Domestic Automotive.....G17-2-4
General Purpose.....G17-6-8
Import Automotive.....G17-5
Miscellaneous G17-8-9
RV's G17-8-9
Tractor.....G17-4
Padlocks.....G17-9-10
Padlocks Accessories.....G17-10
Rings
Heavy Duty.....G17-1
Standard.....G17-1
Safety Lockout Hasps.....G17-10
Tags G17-1
Utility Locks G17-10
KEY RINGS
Heavy Duty.....G17-1
Standard.....G17-1
KEYS
Allen D11-5-6
Woodruff A18-9
KEYSTOCK A18-9
Metric A16-25
Square A13-6
KIM TOWELS "BRAG BOX" D14-12
KING COBRA PLIERS.....D11-7
KLEENEX® NONPERFORATED ROLL TOWELS.....D14-13
KNIVES D10C-44-45

K-L

Putty D10C-44
KNUCKLE & FINGERTIP BANDAGES D14-23
KOPR-SHIELD®, CONDUCTIVE COPPER COMPOUND.....E15-1
KRAFT HAND TOWELS D14-12
Dispenser.....D14-12
KUT KIT™ FIRST AID KIT D14-22
KWIKEE™ SHOP BAGS.....D14-14

L • L • L

LAG SCREWS
Galvanized.....A15-16
Stainless Steel A13-6
Steel A15-15
LAG SCREW EYE BOLTS.....A20-7
LAG SCREW ANCHORS A21-8
LAMPS
Dashboard.....G13-4
Headlight G13-2
Long Life.....D12-1
Super Service D12-1
Wire E11-3
LAMP SOCKETS
Chrysler.....G11-1-2
Ford G11-1-2
GM G11-3-4
Miscellaneous.....G11-5
Universal.....G11-1, 3
LAPJOINT BAND CLAMPS.....H19-4
LATCH KITS, UNIVERSAL SAFETY.....A20-8
LATCHES G15-26
LAZER RECIPROCATING SAW BLADESD10C-38
LEAK DETECTION DYE.....G16-11
LEAK LOCK.....C11-2, L17-18
LEAK STOP.....L17-19-20
LEAK TABLETS, BAR'S.....C11-16
LEATHER CLEANER.....C12-13
LECTRA-MOTIVE® ELECTRIC PARTS CLEANER.....C12-4
LED 7-WAY CIRCUIT CHECKERS
Blade Type G15-25
Pin Type G15-25
LED INDICATOR GLOW FUSES G14-1-2
LED INTEGRAL STROBE LIGHTS G15-10
LEFT HAND DRILLS D10B-25
LEFT HAND HEX NUTS.....A11-6
LEGS™ ANCHORS.....A21-5
LENOX® GOLD™ QUICK CHANGE RETRACTABLE UTILITY KNIFE D10C-45
LENS CLEANING WIPES D14-20
LENSES, WELDING HOOD.....D13-7
LICENSE PLATE
Bolts, Nuts, Screws & Kits.....J10-41-44
Bracket G15-20
GM Lamp.....G15-20
LIFT ARM PIN & BUSHING A20-11
LIGHTER, SPARK.....D13-7
LIGHTING
Arrow G15-1
Batteries.....D12-5
Bayco D12-3
Extension Cords D12-2
Flashlights.....D12-4
Fluorescent.....D12-2-3
KD G15-1
Lamps, Long Life
Rough Service.....D12-1
Super Service.....D12-1
Tuffskin.....D12-1
Star G15-22
Trouble Lights.....D12-2
Trouble Light Reels.....D12-3
Truck-Lite
Back-Up G15-11
Clearance & Marker.....G15-5-8
Conspicuity & Reflector Systems G15-12
Harness Systems.....G15-16
Identification Bar G15-9
Interior & Utility.....G15-12

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

L

License....G15-11
Mounting Accessories....G15-13-14
Receptacles & Accessories....G15-16
Certificate Holder....G15-16
Document Holder....G15-16
Junction Box....G15-16
Sockets & Plugs....G15-15
Stop, Turn & Tail....G15-9-10
Strobe....G15-10
Val-U....G15-17-18
Weldon....G15-2
LIGHTS, INDICATOR....G12-2
LINED HOSE CLAMPS....B12-2
LINERLESS SPLICING TAPE....D14-1, E12-6
LINERS, HIGH-DENSITY CAN....D14-14
LINESMAN PLIERS....D11-7
LINKAGE
Pins, Transmission....H17-1
LINKS
Connecting....A20-4, 5
Quick Repair....A20-5
Security....A20-4
LIQUI-ZYME 600....C14-5
LIQUID BACTERIA - QUICK ACTION CONTROL....C14-6
LIQUID ELECTRICAL TAPE....C11-2, D14-1
LIQUID GRAPHITE....C10-7
LIQUID TIGHT CONDUIT....E12-19
LITHIUM, DURACELL® BATTERIES....D12-5
LOAD BINDERS....A20-3
LOAD BINDER CHAIN....A20-3
LOAD HUGGERS....A20-4
LOBSTER TOOLING....A19-23
LOCK DE-ICER....C14-2, G17-10
LOCK-EASE, LIQUID GRAPHITE....C10-7, G17-10
LOCKING TOOL, SURE GRIP....D11-9
LOCK LINK CHAIN....A20-2
LOCK NUTS
Flange....A11-8
Prevailing Torque....A11-3
LOCKOUT TOOL, THE BIGEASY™....G17-11
LOCK, UTILITY....G17-10
LOCK WASHERS....A14-4
Metric External Tooth....A16-18
Metric Internal Tooth....A16-18
Stainless Steel....A13-9
LOCKS & KEYS....G17-1-11
LOCTITE® THREAD TREATMENT STICKS....C11-5
LONG DRILLS....D10B-22
LONG LIFE LAMPS....D12-1
LONG NOSE PLIERS....D11-7
LOOM
Asphaltic....E12-15
Convoluted Polyethylene....E12-16
Plastic Spiral Wrap....E12-15
Woven Cotton Fabric....E12-15
LOOM & CABLE CLIPS....E12-16-18
Alum. Tubing & Cable Mounting Clips.E12-17
Convoluted Clips....E12-16
Nylon Cable Clamps....E12-18
Steel Insulated Mounting Clips....E12-17
LOW HEAD SOCKET CAP SCREWS....A10-13
"LOW-PROFILE" 3-PRONG CLAW....G16-1
LOW PROFILE SOCKETS....G16-2-4
LOW TEMP GEAR SHIELD LUBE....C10-8
LUBE ADAPTER, RIGHT ANGLE....G16-6
LUBRICANTS
3-In-One Oil....C10-7
Aerosol Chemical Locator Chart....C10-1-2
Air Tool....C10-7
Anti-Seize....C10-11-12
Blaster PB....C10-6
Brake....C10-13
Bulk Chemicals....C10-1
Chain & Gear....C10-5
Cutting Fluids....C10-6-7
Dripless Oil....C10-5
Dry Lubricant....C10-4
Fogging Fluid for Seasonal Storage....C10-15
Food Grade....C10-4-5
Freeze & Release....C10-4
Gear Shield Extra Heavy....C10-8
Graphited Lock Fluid....C10-7

L-M

Greases, Aerosol....C10-4
Greases, Tube & Bulk....C10-8-14
High-Temp Grease....C10-8
Moly....C10-5-6
Omni L/P....C10-9
Penetrants....C10-3
Power Lube....C10-6
Silicone....C10-3-4, 12
Smart Blend® Trans Products....C10-15
SPC No-Stick....C10-8
Tool Coolant....C10-7
Two Cycle Oil....C10-14
Valve/O-Ring Lube & Seal....C10-8, C14-3
WD-40®....C10-6
White Lithium Grease....C10-7
White Lithium Grease w/Teflon Aerosol....C10-6
LUBRICATING TOOLS
Accessories....G16-6
Differential Plug Extractor....G16-7
Drain Pan, Spill-Proof....G16-9
Extension Hoses....G16-6
Funnels....G16-8-9
Grease Fitting Remover....B15-1, L14-12, G16-8
Grease Gun....G16-8
Grease Gun Coupler....G16-6
Grease Gun Rejuvenator Tool....G16-5
High Pressure Control Valve....G16-5
High Pressure Swivel....G16-5
"Low-Profile" 3-Prong Claw....G16-1
Low Profile Sockets....G16-2-3
Needle Nozzle....G16-7
Oil Filter Wrenches....G16-1
Suction Gun....G16-8
Water Nozzle....G16-9
LUBRIPLATE PRODUCTS
630AA Multi-Purpose Lithium Grease....C10-11
630-2 Multi-Purpose Grease....C10-10
1200-2 Multi-Purpose Grease....C10-10
1242 Extreme Pressure....C10-11
3000....C10-10
Air Tool Lube....C10-7
Boat Trailer Grease....C10-13
Chain & Cable Fluid....C10-5
Food Machinery Lubricant....C10-4-5
Gear Shield X-Heavy
Aerosol....C10-5
Caulking Style Cartridge....C10-8
Heavy Duty Tacky Grease....C10-7
High Temp Grease....C10-8
Hydraulic Jack Oil....C10-9, C14-3
Gear Shield....C10-5, 8
Low-Temp 3000-W....C10-10
Mag-1....C10-10
Mo-lith No. 2....C10-10
Motor Assembly Grease....C10-11
Snow Plow Oil....C10-9, C14-3
Snow Plow Quick-Lift....C10-9, C14-3
Spray Lube "A" Multi-Purpose Grease..C10-6
Wheel Bearing Grease....C10-13
White Grease....C10-7
LUG CRIMPING TOOL....D11-13-14
LYNCH PINS....A20-12

M • M • M

MACHINE SCREW NUTS....A11-7
Brass....A13-20
Silcon Bronze....A13-21
Stainless Steel....A13-7
MACHINE SCREW ANCHORS....A21-8
MACHINE SCREW WASHERS....A14-3
Brass....A13-20
Stainless Steel....A13-8-9
Steel....A14-3
MACHINE SCREWS
Anchors....A21-8
Combination Round Head....A15-11
Hex Head

M

Unslotted....A15-15
Unslotted, Trimmed....A13-16
Metric....A16-19-20
Stainless Steel....A16-29-30
Phillips, Flat Head....A15-13
Phillips, Oval Head....A15-11
Phillips, Pan Head....A15-13
Metric....A16-20
Metric Stainless Steel....A16-30
Phillips, Round Head....A15-12
Phillips, Truss Head....A15-14
Slotted, Cheese Head....A16-19
Metric Stainless Steel....A16-29
Slotted, Fillister Head....A15-14
Slotted, Flat Brass....A13-18
Slotted, Flat Head....A15-10
Metric....A16-19
Metric Stainless Steel....A16-29
Slotted, Oval Head Brass....A13-18
Slotted, Pan Head....A15-13
Metric....A16-19
Stainless Steel....A16-30
Slotted, Round Head....A15-12
Slotted, Round Brass....A13-19
Slotted, Truss Head....A15-14
Stainless Steel....A13-13-16
Torx®, Pan Head....A15-13
MACHINERY BUSHINGS....A14-5
MAGNA-BULB RIVETS....A19-15
MAGNA-GRIP LOCK BOLT RIVETS....A19-16-17
MAGNA-LOK RIVETS....A19-12-13
MAGNETIC DRAIN PLUGS....L14-4
MAGNETIC HEX DRIVERS....D11-2, 10
MAGNETIC PICK UP TOOLS....D11-15
MAGNETIZER/DEMAGNETIZER....D11-10
MAGNUM HEAVY DUTY INDUSTRIAL FOAM DEGREASER....C12-3
MAKE-A-CLAMP....B12-3
MAKE-A-GASKET....C11-1
MALLEABLE IRON PIPE FITTINGS....B10-1-2
Schedule 80....B10-2-3
MALLETS....D11-11
MANDRELS....A19-26
MANIFOLD NUTS, BRASS....H19-3, J10-49
MARINE CABLE....E11-3
MARINE SWITCH....G12-2
MARKER PAINT....C13-2
MARKER PAINT ACCESSORIES....C13-3
MARKERS
Felt tip....D14-15
Industrial....D14-15
Metal....D14-15
Wire & Cable....E12-7
MASKING TAPE
3M Green....D14-5
Utility Grade....D14-3
MASONRY ANCHORS
Double Expansion....A21-8
Drop-In....A21-8
Lag Screw Shields....A21-8
Machine Screw....A21-8
Maxi-Stud....A21-7
Rawl Hammer Drive Pins....A21-6
Rawl Zamac Nailin....A21-6
Stud Bolt....A21-8
Tapcon® Fasteners....A21-6
Titen™ HD Threaded....A21-7
MASONRY CUT-OFF WHEELS....D10A-12
MASONRY DRILLS....D10B-22
MASS AIR FLOW SENSOR CLEANER, CRC....C12-11
MAXI CIRCUIT BREAKERS....G14-6
MAXI-LUBE, WHITE GREASE....C10-4
MAXI-STUD ANCHORS....A21-7
MCKANICA SILICONE SEALANTS....C11-12
MEASURING CUP....L17-20
MECHANICS WIRE....D14-15
MEMOR-EZE....G16-10
MEMORY POWER UNIT....G16-10
METAL CUT-OFF WHEELS....D10A-12-13
METAL DEVIL® CIRCULAR SAW BLADES....D10C-39
METAL DRUM PUMP....C14-7
METAL EPOXY

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

M

Fast Cure "45" C11-10
Putties
Steel C11-10
Tubes
J B Weld C11-10
METAL-ICE CUTTING FOAM C10-7
METAL MARKERS D14-15
METAL SHEARS D10C-43
METERED AIR FRESHENER SPRAY C14-4
Dispenser C14-4
METRIC
Copper Washers A16-19
Dowel Pins A16-25
Drain Plugs L14-3-6
Fender Washers A16-18
Grease Fittings B15-1-3, L14-12-13
Grip-N-Serts A17-2
Hex Dies D10B-28-29
Keystock A16-25
Nylon Tubing B13-30
O-Rings B14-3
Small Head Cap Screws A16-10
Taps D10B-27-30
Thread Repair Inserts A17-2
METRIC FASTENERS
Acorn Nuts A16-16
Stainless Steel A16-27
Assortments
16 Bin A16-3
18 Drawer A16-3
40 Bin A16-2-3
80 Bin A16-1-2
Plastic Trays A16-5
Steel Trays A16-4-5
Cap Screws
10.9 Coarse A16-6
10.9 Fine A16-7
8.8 Coarse A16-8-9
8.8 Fine A16-10
Button Head Socket A16-13
Flat Head Socket A16-12
Stainless Steel A16-28
Small Head (Japanese) A16-10
Socket Head A16-11-13
Stainless Steel A16-27
Castle Nuts A16-17
Cone Point Hex Bolts A16-14
Copper Plated Lock Nut A16-17
Copper Sealing Washers A16-19
Cotter Pins A16-22
Dowel Pins A16-25
External Tooth Lock Washers A16-18
Fender Washers A16-18
Finished Hex Nuts A16-15
Brass A16-17
Stainless Steel A16-27
Flange Bolts A16-13-14
Flange Nuts A16-16
Flat Washers A16-18
Stainless Steel A16-27
Free Spinning Washer Nut A16-17
Gaskets A16-19
Hex Head Cap Screws A16-6-10
10.9 Coarse A16-6
10.9 Fine A16-7
8.8 Coarse A16-8-9
8.8 Fine A16-10
Small Head (Japanese) A16-10
Stainless Steel A16-27
Hex Nuts
Brass A16-17
Cap, Acorn A16-16
Castle A16-17
Copper A16-17
Finished 10.9 ..... A16-15
Finished 8.8 ..... A16-15
Flange A16-16
Free Spinning Washer A16-17
Jam A16-15
Stainless Steel A16-27
Nylon Insert Lock Nut A16-16
Prevailing Torque Lock Nut A16-15
Stainless Steel A16-27

DESCRIPTION GROUP / PAGE

M

Washer A16-16
Hex Rod Couplings A16-21
Internal Tooth Lock Washers A16-18
Jam Nuts A16-15
Keystock A16-25
Lock Nuts A16-16
Nylon Insert A16-16
Prevailing Torque A16-15
Stainless Steel A16-27
Lock Washers A16-18
Stainless Steel A16-27
Low Head Socket A16-11
Machine Screws
Cheese Slotted A16-19
Flat Phillips A16-20
Flat Slotted A16-19
Oval Phillips A16-20
Pan Phillips A16-20
Pan Slotted A16-19
Stainless Steel A16-29-30
Nylon Lock Nuts A16-16
Prevailing Torque Nuts A16-15
Push Nuts A16-17
Push Connect Metric
Brass Fittings B13-16-17
Retaining Rings A16-23-24
Rod Couplings A16-21
Roll Pins A16-24
Roller Chain, British Standard A16-22
Set Socket Head Screws A16-21
Socket Head Cap Screws A16-11-13
Stainless Steel A16-28
Socket Head Shoulder Screws A16-12
Socket Set Screws A16-21
Stainless Steel A16-29
Speed Nuts, "U" Type A16-17
Spring Lock Washers A16-18
Spring Pins A16-24
Stainless Steel A16-26-30
Studs
Double End A16-22
Full Thread A16-22
Threaded Rod A16-21
Metric Stainless Steel A16-30
Washers
Copper A16-19
Fender A16-18
Flat A16-18
Hi-Collar Lock A16-18
Split Lock A16-18
Spring Lock A16-18
Stainless Steel A16-27
Wing Nuts A16-17
MEYERPLIER D11-8
MICROFLEX GLOVES
Diamond Grip™ D14-19
Nitron One® D14-19
MID RANGE EARMUFF D14-21
MIG WELDING WIRE D13-5
MICROFIBER CLEANING CLOTHS D14-12
MILDEW & STAIN REMOVER, DEVOUR C14-5
MINIATURE BULBS G13-4-5
Competitive Edge G13-4-5
MINI TORCH D13-10, E10-18A
MINUTE MEND EPOXY PUTTY C11-10
MIRRORS
Arm & Mounting Only G15-4
Bracket G15-4
Bus Boy G15-4
Convex G15-3-4
Delbar G15-3
Double Nickel G15-3
Mini Hawk-Eye G15-4
MirrorLIte G15-3
Miscellaneous G15-4
Retrac G15-4
West Coast G15-3
MISCELLANEOUS ABRASIVES D10A-16-17
3M Roloc™ Bristle Discs D10A-17
Bristle Discs & Brushes D10A-17
Bronze Wool D10A-16
Steel Wool D10A-16
MO-LITH NO. 2 GREASE C10-10

DESCRIPTION GROUP / PAGE

M-N

MONOBOLT RIVETS A19-14
MOULDING FASTENERS,
UNIVERSAL TYPE J10-37
MOUNTING CLIPS
Aluminum Tubing & Cable E12-17
Steel Insulated E12-17
MOLY GEAR & CHAIN LUBE C10-5
MOLY LUBRICANT C10-6
MOLYBDENUM GREASE C10-10
MONOBOLT STRUCTURAL RIVETS A19-14
MOP
Handle D14-8
Head D14-8
Wringers D14-8
MOTOR ASSEMBLY GREASE C10-11
MOTORS
Assembly Grease C10-11
MOULDING ADHESIVE C11-14-15
MOUNTED GRINDING WHEELS, HD D10A-12
MOUNTING CLIPS
Aluminum Tubing & Cable E12-17
Loom & Cable E12-16
Nylon E12-18
Steel Insulated E12-17
MRO HIGH SOLIDS INDUSTRIAL PAINTS C13-2
MUFFLER
Cement C11-16
Clamps
Heavy Duty H19-1
Standard H19-1
Truck
Heavy Duty H19-1
Welded H19-1
Hangers H19-1
MUFFLER CEMENT C11-16
MULTIPLE OUTLET STRIP E13-1
MULTIPLE WALL HEAT SHRINK TUBING E12-8
MULTIPLE WIRE HEAT SHRINK TUBING E12-8A
MULTI-GRIP RIVETS A19-6
MULTI-GRIP SOCKET D11-1
MULTI-LINK STEP-DOWN
BUTT CONNECTORS E10-14A-B
MULTI-LUBE, 5 IN 1 ..... C10-3
MULTI-PURPOSE SEALANT, SEAL-IT C13-1
MULTI-STUD RING TONGUES E10-5-7
MULTI-USE CLEANER, GLASS-N-DASH C12-12
MULTILINK TERMINALS E10-12-18
MUSIC WIRE D14-15

N • N • N

NATURAL ODOR ELIMINATOR,
FRESH WAVE C14-4E
NEEDLE, TRUCK CLOSED-EYE H11-6
NEVER•SEEZ® ANTI-SEIZE C10-12
NON-ACID COIL CLEANER
& RENOVATOR, COIL FOAM C14-6
NON-FERROUS
Assortments A13-1
Brass A13-17-20
Cap Screws
18-8 Stainless A13-1-2
316 ..... A13-3
Brass A13-19
Silicon Bronze A13-21
Carriage Bolts A13-6
Cotter Pins A13-17
Drill N' Tap Screws A13-10
Hi-Nuts A13-20
Keystock A13-6
Lag Screws A13-6
Machine Screws
Brass A13-18-19
Stainless A13-13-16
Metric A16
Nuts
Brass A13-20
Silicon Bronze A13-21
Stainless A13-6, 8
Nylon A13-22
Sheet Metal Screws A13-11-13

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

N

Silicon Bronze A13-21
Socket Head Cap Screws
18-8 Stainless Socket Head A13-4-5
18-8 Stainless Flat Head A13-5
18-8 Stainless Button Head A13-5
Socket Head Shoulder Screws A13-4
Socket Set Screws A13-4
Stainless Steel A13-1-17
Teks® Screws A13-10
Threaded Rod
Brass A13-19
Stainless A13-9
Washers
Brass A13-20
Fender A13-9
Silicon Bronze A13-21
Stainless A13-8-9
Wood Screws
Brass A13-17-18
Stainless A13-10-11
NON-KINK AIR HOSE B11-1
NON-LEAD ADHESIVE WHEEL WEIGHTS H10-6
NON-LOADING SANDPAPER D10A-7
NON-MARKING COUPLERS B11-8
NON-MELT GREASE, RED C10-14
NON METALLIC ANTI-SEIZE C10-12
NON-SLIP, SAF-STEP TAPE D14-4
NON-WOVEN ABRASIVES D10A-14-16
3M Products
Clean 'N Strip Discs D10A-14
Flap Wheels
100% Non-Woven D10A-14
Interleaf D10A-14
Strip-It Discs D10A-16
Surface Conditioning Hand Pads D10A-16
Surface Preparation Discs D10A-14-16
Twist-Lock Disc Assortments D10A-15
NORMA TORRO HOSE CLAMPS B12-3
NOSEPIECES (SPECIAL MANDREL) A19-26
NOZZLE, WATER HOSE D14-17
NUT DRIVER D11-4
NUT & ROUNDED BOLT REMOVER KITS, 3/8" DRIVE TIGHT GRIP D11-1
NUTS
Acorn Cap A11-8
Metric A16-16
Stainless Steel A13-6, 8
Barrel A11-10
Body J10-32-34
Bolt & Nut Retainers A11-11
Brass Manifold H19-3
Brass Wood Inserts A11-13
Bumper Nuts J10-36
Caged
"J" A11-10, J10-50
Square A11-10
Castle, Grade 5 Hex A11-8
Castle, Metric A16-17
Claw Prong Tee A11-9
Clinch A17-1, J10-52
Expansion J10-51-52
Extruded "U" A11-10
Finished, Brass A13-20
Flanged Locking A11-8
Galvanized A11-6
Heavy Hex A11-6
18-8 Stainless Steel A13-7
A194-2H A11-7
Hex Finished
Brass A13-20
Grade 2 ....A11-3
Grade 5 ....A11-2
Grade 8 ....A11-2
Metric A16-15
Stainless Steel A13-6, 8
Supralloy L9® A11-1
Hex Flange A11-8, J10-49
Hex Flange Lock, Grade G A11-8
Hex L9® A11-1
Hex Grade 5 ....A11-2
Hex Grade 8 ....A11-2
Hex Jam, 316 Stainless Steel A13-7
Hex Nylon A13-22
Hi-Nuts

N

SAE A11-6
USS, Brass A13-20
Hi-Nylon Lock A11-5
Jam A11-7
18-8 Stainless Steel A13-6
316 Stainless Steel A13-7
A2 Stainless Steel, Metric A16-27
Metric A16-15
Keps A11-7
Left Hand
Grade 2 ....A11-6
Grade 5 ....A11-6
License Plate J10-41-42
Machine Screw A11-7
Brass A13-20
SS A13-7
Manifold H19-3, J10-49
Metric Brass H19-3
Metric, Flanged A16-16
Metric "U" Speed A16-17
Muffler Clamp H19-1
Nylon Insert Lock
Grade 2 ....A11-5
Grade 5 ....A11-5
Grade 8 ....A11-4
Heavy A11-4
Hi A11-5
Jam A11-4
Wing A11-9
Pal A11-11, J10-50-51
Prevailing Torque Lock
Grade 5 ....A11-3
Grade 8 ....A11-3
L9® A11-3
Push A11-11, J10-51
Rod Couplers A12-18
Rod Couplers, Metric A16-21
SAE Hi-Nuts A11-6
Silicon Bronze, Hex A13-21
Slotted Hex A11-7
Speed
Extruded J10-34-35, 50
Flat A11-10, J10-50
"J" A11-10, J10-35-36, 50
Tubular A11-10
"U" A11-10, J10-35-36, 50
Metric A16-17
Square A11-8
Square Cage A11-10
Stainless Steel A13-6, 8
Stover Lock, GR-5 ....A11-3
Stover Lock, GR-8 ....A11-3
Stover Lock, L9® A11-3
Supralloy L9® A11-1
Torque Converter H17-1
Tee, Claw Prong A11-9
Thread Cutting J10-50
Tubular Speed A11-10
Universal A11-10
Vandlgard A11-9
Well A11-14, J10-51
Wheel H14-1, 6-9
Wing A11-8-9
Stainless Steel A13-8
Wood Insert A11-9
NYLON BLIND RIVETS J10-58, 61-62
NYLON CABLE CLAMPS E12-18
NYLON INSERT LOCK NUTS
18-8 SS A13-7
316 SS A13-7
Grade 2 ....A11-5
Grade 5 ....A11-5
Grade 8 ....A11-4
Heavy A11-4
Hi-Nylon A11-5
Jam A11-4
Standard A11-5
Wing A11-9
NYLON LOCK NUTS
Hi-Nylon A11-5
Metric A16-16
Stainless Steel A13-7
NYLON NUTS A13-22
NYLON RECOIL AIR HOSE B11-1

N-O-P

NYLON RIBBED GASKETS L14-9
NYLON RIVETS A19-11
NYLON ROPE A20-9
NYLON SCREW ANCHORS A21-2
NYLON SCREWS A13-21-22
NYLON TUBING
Air Brake B13-30
General Purpose B13-30
Metric B13-30
NYLON WASHERS A14-3

O • O • O

O-RING SPLICING KIT B14-5
O-RINGS
A/C Systems L17-4-11
Caterpillar B14-4
Ethylene B14-2-3
Hydraulic B14-5
Metric B14-3
Splicing Kits B14-5
Square Cut O-Rings B14-3
Standard Cut (Buna-N) O-Rings B14-2-3
Viton B14-2-3
ODOR BUSTER AUTO FOGGER™ L17-20
ODOR COUNTERACTANT DRC655 ....C14-4
ODOR DEODORIZERS C14-4-6
ODORCIDE® 210 CONCENTRATE C14-5
Dumpster & Chute C14-5
Original Formula C14-5
OIL, 3-IN-ONE C10-7
OIL COOLER REPAIR FITTING B13-19
OIL DRAIN PAN RETHREADING KIT D10C-31
OIL FILLER CAPS L13-2
OIL FILTER
Pliers G16-1
With Slip Joint Handle G16-1
Truck and Tractor G16-1
Sockets G16-2-4
Wrenches G16-1
OIL GUN G16-8
OIL LINE QUICK DISCONNECTORS H17-2
OIL/LUBRICANT – 2 CYCLE ENGINE C10-14
OLYMPIC BULB-TITE RIVETS A19-8
OMNI L/P C10-9
ON-THE-CAR BRAKE LATHE BITS G16-14
Silencers G16-14
"ONE-TIME" DRAIN PLUGS L14-2, 6
OPEN BARREL TERMINALS G11-8-10
Cable Seals G11-9
Cavity Plug G11-9
GM Mate-N-Lock G11-10
Metri-Pack Series G11-8
Splice Clips G11-8
Weatherpack G11-9
Wire Leads G11-9
Tools G11-10
OPEN END BLIND RIVETS A19-1-3
OPEN END NEEDLE H11-6
ORIFICE TUBES L17-13-14
Smart VOV L17-14
OVERFLOW TANK CAP L13-1
OVERSIZE DRAIN PLUGS L14-2
OVERSIZE FENDER WASHERS, METRIC A16-18
OVERSIZE WASHERS A14-3
OVERSIZED WHEEL STUD H14-5

P • P • P

P-FREE, URATIC SALT REMOVER C14-5
PADLOCKS G17-9-10
Lock De-Icer G17-10
Lock Ease G17-10
PADS
Absorbent D14-25
Drum Top D14-25
PAG OIL FOR R134a SYSTEMS L17-18
PAG OIL w/DYE L17-19

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

P

PAINT, AEROSOL....C13
PAINT....C13-1-5
Brushes....D14-10
Ceiling Tile....C13-4
Colors....C13-5
Flexible Bumper & Trim....C13-4
Graffiti Remover, Gel....C12-2
Hi-Tech Engine Coating....C13-4
Masks....D14-20
MRO High Solid Industrial....C13-2
Non-Skid, Anti-Slip Epoxy....C13-4
Remover....C12-2
Stainless Steel....C13-3
Stiks....D14-15
Stripe Inverted Tip Marker....C13-2
Stripper....C13-4
PAINTER'S OVERALLS....D14-18
PAINTER'S, 3M BLUE TAPE....D14-3
PAL FUSES....G14-3
PAL NUTS....A11-11, J10-50-51
PAN BOLTS....H17-2
PAN-STICKER GELTABS....C14-6
PANELS, FUSE....G14-7
PAPER/PLASTIC PRODUCTS....D14-12-14
PARTS CLEANING BRUSH....D14-7
PASSING LINK CHAIN....A20-2
PATRIOT WELDING & BRAZING RODS..D13-1-5
PB BLASTER PENETRATING OIL....C10-6
PCV VALVES....L10-1-2
PEDAL RETURN SPRINGS....L11-3
PENCIL FLAME TORCH....D13-10
PENETRANT-DEMOISTURANT-LUBE
Five Way....C10-3
PENETRATING OIL....C10-3
PB Blaster....C10-6
PERFECT SOLUTION -CONCENTRATED
CLEANER/DEGREASER....C14-4
PERFORATED HANGER STRAPPING....D14-15
PERMA HOSE....B11-1
PERMAGUM....L17-20
PERMATEX®
PERMATEX®
Anti-Seize Lubricant....C10-11
Battery Cleaner....C12-12
Brake & Parts Cleaner....C12-11
Ceramic Extreme Brake Parts
Lubricant....C10-13
High-Temp Red RTV Silicone
Gasket Maker....C11-13
Super Glue....C11-13
Super Glue Gel....C11-13
Super Weatherstrip Adhesive....C11-14
The Right Stuff....C11-13
For Imports....C11-13
Tune-Up Grease....C10-12
Ultra Disc Brake Caliper Lube....C10-13
PEST CONTROL....C14-1
PICK-UP TOOLS....D11-15
MAGNETIC....D11-15
PIGTAIL/SOCKET CONNECTORS....G11-1-7
PILLOW BLOCKS....A20-11
PILOT DRILLS....D10C-40-41
PILOT INSERT/SEALING WASHERS,
GM....L17-12
PILOT PUNCHES....D11-12
PINCERS, HOSE CLAMP....B12-4
PIN PUNCHES....D11-11
PINS
Clevis
Single Holed....A18-3-4
Universal....A18-3-4
Cotter
Bow-Tie....A18-3
Metric....A16-22
Rue® Ring....A18-2
Stainless Steel....A13-17
Steel....A18-1-3
Wedg-Lok....A18-2
Dowel....A18-6
Guide....H13-2
Hair
Cotters....A18-1
Hitch....A20-11

P

Hitch, Cotters....A18-1
Lift Arm....A20-11
Lynch....A20-12
PTO Lock....A20-11
Roll....A18-4-5
Snap-Lock....A20-11
Spring Roll
Standard....A18-4-5
Metric....A16-24
Spiral Spring....A18-5
Taper....A18-6
PIPE FITTINGS
Brass....B13-5-7
Copper Sweat....B10-7
Galvanized....B10-1-2
Malleable Iron....B10-1-2
Schedule 80....B10-2-3
PVC Schedule 40....B10-5
PVC Schedule 80....B10-6
Stainless Steel....B10-3-4
Valves....B10-8
PIPE PLUGS, STEEL/BRASS....B15-4
PIPE SEALANT W/TEFLON
(INDUSTRIAL GRADE)....C11-8
PIPE THREAD TAPS....D10C-30
PIPE WRENCHES....D11-4
PLASTIC
Coated, Floor Covers....D14-14
Drum Pump....C14-7
Funnels....D14-16
Gas Cans, Spill-Proof....D14-16
Replacement Nozzles....C11-1
Seat Covers....D14-14
PLASTIC COATED CLOTH TAPE....D14-2
PLASTIC UTILITY BOXES....M10-10
PLASTIX....C11-4
PLIERS
Bending....H15-3
Channel Lock....D11-6
Diagonal Cutting....D11-7
E-Z Set & Forget....D11-8
Groove Joint....D11-7
Hog Ring....-37
Hose Clamp....G16-12
Hose Pinch-Off....G16-13
King Cobra....D11-7
Linesman....D11-7
Long Nose....D11-7
Oil Filter....G16-1
Push Pin....J10-16
Radiator Cap....G16-12
Retaining Ring....D11-7
Slip Joint....D11-6-7
Vise-Grip....D11-8
Wire Cutting....D11-6-7
PLOW BOLTS
Grade 5 Clipped Head....A12-1
Grade 5 #3....A12-1
Grade 8 #3....A12-1
PLUG CLEANERS....G15-25
PLUGS
GM Transfer Case....L14-7
4WD....L14-7
PLUG WRENCH, DRUM....C14-7
PLUMBER'S
Brushes....D14-7
Chain....A20-2
E-Z Clean Cloth Roll....D10A-7
Grip-Kut Mesh Cloth Roll....D10A-7
PNEUMATIC ACCESSORIES
Air Hose....B11-1
Air-Line Chucks....B11-3
Air-Line Couplers....B11-5-9
Air-Line Filter....B11-2
Air-Line Plugs....B11-5-6
Air-Line Regulator....B11-2
Hydraulic Quick Couplings....B11-9
Inflator Gauge....B11-2
In-Line Water Separator & Air Filter....B11-2
Pressure Gauge....B11-2
Safety Blow Guns....B11-3-4
POINT CLEANER....C12-3
POLAR INSULATED LEATHER PALM

P

GLOVES....D14-19
POLE SOCKET PROTECTIVE BOOT....G15-24
POLYETHYLENE TUBING....B13-30
POLYPROPYLENE ROPE....A20-9
POLYURETHANE SELF COILING
AIR HOSE....B11-1
POP RIVETS....A19-1-5
Tools....A19-23
PORTABLE BANDSAW BLADES....D10C-36
PORTABLE TOOL LUBRICANT....C10-7
POSI-GRIP
Discs (ScotchBrite)....D10A-15
Drills....D10B-24
POSI-LOCK CONNECTORS....E12-4
POST-IT, 3M REMOVABLE
LABELING TAPE....D14-3
POST TERMINAL BONDING STRAPS....E15-3
POWER EXTRACTOR....D10C-33
POWER LUBE, CRC®....C10-6
POWER STEERING
Fluid....C14-4
Honda® Vehicles....C14-4
POWER TUBE BRUSHES....D10A-2
PRECISION SCREWDRIVERS....D11-10
PREMIUM HAND CLEANER, WONDER....C12-9
PRESSURE CYCLING SWITCHES....L17-15
PRESSURE GAUGE....B11-2
PRESSURE SENSITIVE TAPE....D14-5
PREVAILING TORQUE LOCK NUTS....A11-3
PREVENTX BRAKE LINES....H15-2
PRIMARY WIRE....E11-2-3
PRIMER
Rust Treatment....C13-1
Single Step, 3M....C11-14
Zinc Galvanizing....C13-3
PROGRABIT® BROKEN BOLT & DAMAGED
SCREW REMOVER....D10C-33
"PRO LOK™" ADHESIVES AND
SEALANTS....C11-5
PROOF COIL CHAIN....A20-1
PRO-TECH DETAIL CHEMICALS
Satin Formula....C12-13
Wax and Shine....C12-13
"Wet Look" High Gloss Formula....C12-13
PROBE TOOL, T-HANDLE....H11-6
PROFESSIONAL MODEL TS7000,
SELF-IGNITING TORCH....D13-10
PROLINE
Adhesives/Sealants....C15-2-3
Cleaners....C15-3-5
Lubricants....C15-1-2
Product Specifications....C15-6-14
Specialty....C15-5
PROTECT-O-SEAL, GLADHAND SEAL....G15-27
PROTECTIVE BOOT, 7 POLE SOCKET....G15-24
PROTECTIVE CLOTHING....D14-18-19
PROTECTIVE EYEWEAR....D14-21-22
PROTECTORS, HOSE....G15-24
PRY BAR (CROW)....D11-11
PTO CABLE....G15-26
PTO LOCK PINS....A20-11
PUMP DRUM....C14-7
PUNCHES, CENTER....D11-11
PUNCHES, PILOT....D11-12
PUNCHES, PIN....D11-11
PURPLE-PRO™ CONCENTRATE....C12-1
PUSH NUTS....A11-11, J10-51
PUSH-ON HOSE
Fabric Cover....B13-22
Rubber Cover....B13-22
PUSH PIN PLIER SET....J10-16
PUSH-PULL CONTROL CABLES....G15-26
PUSH-PULL SWITCHES....G12-2
PUSH-TO-CONNECT COMPOSITE
BRASS FITTINGS....B13-16-17
PUSH-TO-CONNECT METRIC
BRASS FITTINGS....B13-16-17
PUTTY KNIVES AND SCRAPERS....D10C-44
PVC/ABS HAND SAWS....D10C-38
PVC SCHEDULE 40 PIPE FITTINGS....B10-5
PVC SCHEDULE 80 PIPE FITTINGS....B10-6

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE DESCRIPTION GROUP / PAGE DESCRIPTION GROUP / PAGE

Q-R

Q • Q • Q

Q-BOND FAST BONDING ADHESIVE.....C11-2
QUICK ACTION CONTROL -
LIQUID BACTERIA C14-6
QUICK CHANGE RATCHETING TERMINAL
CRIMPING KIT D11-14, E10-18A
QUICK COUPLERS, AIR B11-5-9
QUICK DISCONNECT CONNECTORS
GM Heater Hose L15-2
QUICK DISCONNECTORS
Fuel Line.....L12-5
Transmission & Oil Line.....H17-2
QUICK DRAW LOW TEMP SOLDER.....D13-9
QUICK LINK A20-5
QUICK LUBE ASSORTMENT L14-1

R • R • R

R134A RETROFIT PARTS L17-16
RACKS, ALL TYPES.....M10-13-16
Cable Tie.....E12-9
RADIAL TIRE PATCHES H11-4, 6
RADIATOR
Brush D14-7
Cap Pliers.....G16-12
Caps L13-1
Drain Cocks.....L15-3
Drain Cock Socket.....G16-13
Flush C14-3
Hose, Silicone L15-1
Sealer C11-15
Stop Leak.....C11-16
Stant Tester.....L13-1
Thermostat Housing Cap L13-1
RAGS IN A BOX, SCOTT® D14-12
RAIN CAPS, EXHAUST H19-4
RAINWEAR D14-18
RAINY DAY WIPER BLADES.....G10-3
RASP & FILE SET D10C-43
RASPS H11-5
RATCHET PROFESSIONAL
CRIMPING TOOL D11-14, E10-18A
RATCHET CUTTING TOOL D10C-45
RATCHET SCREWDRIVER, 15-IN-ONE D11-9
RATCHETING ADJUSTABLE
WRENCH SET.....D11-15
RATCHETING CRIMPER.....D11-13-14
RATCHETING TERMINAL CRIMPING KIT,
QUICK CHANGE.....D11-14, E10-18A
RAZOR BLADES.....D10C-44
REAMERS D10B-25
REAR VIEW MIRROR ADHESIVES C11-16
RECEPTACLES, IN-LINE GFCI.....E13-1
RECIPROCATING SAW BLADES.....D10C-36-40
Carbide Grit.....D10C-37
Fire & Rescue D10C-39-40
Lazer D10C-38
Triple Edge.....D10C-39-40
RECLOSABLE FASTENERS
Dual Lock.....D14-5
Velcro D14-5
RECOIL HOSE, AIR B11-1
RED GREASE, AEROSOL.....C10-4
RED SILICONE, RTV
"MAKE-A-GASKET" C11-1
REFLECTIVE TAPE.....G15-19
REFLECTORS.....G15-12, 19
RELAYS G12-4
REMOVERS
Chewing Gum.....C12-4
Gel Graffiti.....C12-2
Gel Vandal Mark.....C12-2
Super Glue.....C11-5
REPAIR
FUEL LINE.....L12-5-6
FUEL TANK C11-16
RESCUE & FIRE RECIPROCATING

R

SAW BLADES D10C-39-40
RESET TOOL
BMW G16-7
RESTORATION KIT, HEADLIGHT LENS...C11-16
RESTORERS, INTERNAL THREAD.....D10C-32
RETAINERS
Headliner.....J10-16-28
Plastic Shield.....J10-16-28
Rivet J10-16-28
RETAINING RING PLIERS D11-7
RETAINING RINGS
"E" A18-7-8
External.....A18-7-8
Internal.....A18-7-8
RETHREADING SETS.....D10C-31-32
RETHREADING TOOL, EXT. BOLT D10C-32
RETRACTABLE REELS D12-3
RETRACTABLE UTILITY KNIVES.....D10C-45
RIBBED NECK CARRIAGE BOLTS,
GRADE 5 .....A12-4
RIBBED NYLON GASKETS L14-9
RIGHT ANGLE LUBE ADAPTER.....G16-6
RIGHT TO KNOW COMPLIANCE
CENTER M10-6
RACK and BINDER M10-6
RIM GAUGE H10-6
RINGS, HOG J10-37
Pliers J10-37
RINGS, RETAINING
"E" A18-7-8
External.....A18-7-8
Internal.....A18-7-8
RIVET CONNECTING LINK A20-4
RIVET GUNS A19-26
RIVET-NUTS
Blind Thread J10-53
Expander Flange.....A17-2
Large Flange.....A17-2
Tool A17-1
RIVETS
Assortments.....A19-25
Aluminum.....A19-1-2
Back-Up Washers.....A19-25
Blind A19-1-5
Nylon.....J10-58, 61-62
Brazier Head Solid Alum.....A19-10
Bulbex.....A19-7
Bumper.....J10-57, 60
Closed End Sealing A19-4-5
Door A19-7
Floortight.....A19-18
Guns A19-26
HP8 Powerbolt.....A19-21
Huck-Fit Powerbolt.....A19-22
Hucktainer.....A19-19
Magna-Bulb.....A19-15
Magna-Grip Lock Bolt.....A19-16-17
Magna-Lok.....A19-12-13
Mandrels A19-26
Monobolt Structural.....A19-14
Multi-Grip A19-6
Nosepieces A19-26
Nylon A19-11
Olympic Bulb-Tite.....A19-8
Open End.....A19-1-3
Pop A19-1-5
Tools.....A19-23
Retainers.....J10-23-28
Southco.....A19-9
Special Application.....J10-57, 60-62
Stainless Steel A19-3
Steel A19-2-3
Structural Trifurcating.....A19-5
Tools A19-26, J10-58-59
Trim J10-56, 60
Washers, Back-Up.....A19-25
Window, Glass and Door.....J10-56, 60
RIVETING TOOLS J10-58-59
ROBERTSON SCREWS
Sheet Metal.....A15-2
Wood A15-17
ROD
Brazing D13-1, 4A
Saw D10C-35

R-S

Threaded, Brass A13-19
Threaded, Stainless Steel.....A13-9
Threaded, Metric.....A16-21
Stainless Steel.....A16-30
Threaded, B-7 .....A12-10
Threaded Rod Couplings.....A12-11
Metric.....A16-21
Threaded, Standard.....A12-10
Unthreaded.....A12-10
ROD COUPLINGS.....A12-11
18-8 Stainless Steel Nuts.....A13-10
ROD END BALL JOINTS A20-13
ROLL PINS A18-4-5
Metric A16-24
ROLLER CHAIN A20-12
British Standard Metric.....A16-22
Heavy Duty A20-12
Repair Parts.....A20-12
ROLOC DISCS, 3M.....D10A-10
ROPE
Hooks A20-8
Nylon A20-9
Polypropylene A20-9
Ratchet.....A20-9
Recessed Ring.....A20-9
Rubber A20-9
Tow A20-4
Wire A20-6
Vinyl Coated A20-6
ROTABROACH® CUTTERS D10C-40
ROTARY CABLE STRIPPER.....D11-13
ROTARY SAW DRILL.....D10B-24
ROTOR SILENCERS G16-14
ROUGH SERVICE BULBS.....D12-1
ROUNDED BOLT & NUT REMOVER KITS,
3/8" DRIVE TIGHT GRIP.....D11-1
RTV MAKE-A-GASKET C11-1
RTV SILICONE GASKET.....C11-12-13
RTV SILICONE SEALANT
Clear C11-1
School Bus Yellow.....C11-1
White C11-1
RUBBER BOOT, TOGGLE SWITCH.....G12-2
RUBBER DRUMS, SOLID D10A-8
RUBBER GROMMETS.....E12-14, J10-41
RUBBER HD DUST PAN D14-9
RUBBER INSERT DRAIN PLUG
GASKETS (FORD).....L14-10
RUBBER ROPE.....A20-9
RUBBER STRAPS A20-10
RUBBERIZED UNDERCOATINGS.....C13-1
RUBY RED GREASE C10-14
RUE® RING COTTER PINS A18-2
RULERS D11-12
RUST
Paint C13-1
Penetrant, FX.....C10-3
Primer C13-1
Remover C13-1
Treatment C13-1

S • S • S

"S" HOOKS A20-8
"Infinity" A20-8
SABER SAW BLADES.....D10C-36
SAE 45 FLARED BRASS FITTINGS B13- 5, 8-9
SAE HI-NUTS A11-6
SAE THREADED ROD.....A12-10
SAF-STEP NON-SLIP TAPE.....D14-4
SAFETY BLOW GUNS.....B11-3-4
SAFETY COUPLERS B11-9
SAFETY EQUIPMENT D14-20-26
SAFETY FLAG, FLUORESCENT MESH....D14-26
SAFETY GLASSES.....D14-21-22
SAFETY LATCH KITS, UNIVERSAL.....A20-8
SAFETY LOCKOUT HASP, MASTER®.....D14-26
SAFETY SIGNS.....D14-26
SAFETY SLIP HOOK A20-6
SAFETY TRAFFIC CONES.....D14-26
SAFETY WALK TAPE.....D14-4

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

S

SANDING DISCS, 3M D10A-7-8
SANDING SHEETS D10A-7-8
SASH CHAIN A20-2
SAW BLADES
Air D10C-35
Carbon Flexback D10C-36
Close Quarter D10C-35
Hacksaw D10C-34-35
Jig/Saber D10C-36
Metal Devil® Circular Saw Blades D10C-39
PCV/ABS D10C-38
Portable Bandsaw D10C-36
Reciprocating D10C-36-40
Carbide Tipped D10C-37
Demolition D10C-38
Fire & Rescue D10C-39-40
Heavy Duty D10C-37
Master Grit® D10C-37
Sawzall D10C-37
Triple Edge D10C-39-40
Rod D10C-35
Tri-Fold D10C-37
SCAVENGER WELDING WIRE D13-5
SCOTCHLOK CONNECTORS E12-2, 5-6
SCOTT® RAGS IN A BOX D14-12
SCOTT® TOWELS IN A BOX D14-12
SCHOOL BUS EIGHT LAMP ELECTRONIC FLASHER/CONTROLLER G15-2
SCHOOL BUS FIRST AID KIT D14-23
SCHOOL BUS YELLOW SILICONE, RTV SEALANT C11-1
SCRAPER, HEAVY DUTY D10C-44
SCRAPING TOOLS D10C-44
SCRATCH BRUSHES D10A-3
SCREENCLOTH D10A-6
SCREW EYES A20-7
SCREW EXTRACTORS D10C-33
SCREWDRIVER, 15-IN-ONE RATCHET D11-9
SCREWDRIVER SETS D11-9
SCREWDRIVERS, INSULATED D11-9-10
SCREWDRIVERS, MULTI-BIT SET D11-10
SCREWDRIVERS, PRECISION D11-10
SCREWGRAB D11-10
SCREWLOOSE®, ULTRA SUPER PENETRANT C10-3
SCREW REMOVER, X-OUT™ D10C-33
SCREWS
Black Trim A15-3
Brass Wood A13-17-18
Brass Machine
Slotted Oval Head A13-18
Slotted Round Head A13-19
Slotted Flat Head A13-18
Button Head Socket C/S A10-16
Drill N' Tap A15-7-9
Drill Point A15-9
Dry Wall A15-19
Exhaust H19-3
Flat Head Socket C/S A10-14
Floorboard
Flat Torx A15-18
Flat Type "F" A15-18
Hex Head Lag Screws A15-15
Galvanized A15-16
Stainless Steel A13-6
Hex Head C/S GR-2 ..... A10-10
Hex Head C/S Metric A16-6-10
Hex Head C/S GR-5 ..... A10-9
Hex Head C/S GR-8 ..... A10-7-8
Hex Head C/S SS A13-1-3
Hex Serrated Washer Head Teks® A15-8
Lag
Galvanized A15-16
Stainless Steel A13-6
Steel A15-15
License Plate J10-41-43
Machine Screws, Metric A16-19-20
Machine Screws, Steel
Combination Round Head A15-11
Phillips Flat Head A15-11
Phillips Oval Head A15-11
Phillips Pan Head A15-13
Phillips Round Head A15-12
Phillips Truss Head A15-14
Stainless Steel A13-13
Slotted Round Head A15-12
Slotted Flat Head A15-10
Slotted Fillister Head A15-14
Slotted Pan Head A15-13
Slotted Truss Head A15-14
Stainless Steel A13-13
Tamper-Proof A15-19
Torx Pan Head A15-13
Unslotted Hex Head A15-15
Rock-On Flat Phillips Teks® A15-9, 38B
Security Screws A15-19-20
Self-Sealing Drill A15-8
Set Screws
Assortments A15-21
Socket Head
Cup Point A15-21
Knurled Point A15-21
Square Head A15-20
Sheet Metal
Hex Head, Unslotted A15-5
Hex Washer, Slotted A15-4
Pan Combination Head A15-1
Phillips Flat Head A15-3
Phillips Oval A15-2-3
Stainless Steel A13-12
Phillips Pan Head A15-1
Phillips Truss Head A15-4
Stainless Steel A13-13
Slotted Flat Head A15-3
Slotted Hex Washer A15-4
Slotted Oval Head A15-2
Slotted Pan Head A15-1
Slotted Truss Head A15-4
Square Drive A15-2
Stainless Steel A13-11-13
Unslotted Hex Head w/loose washer A15-4
Slotted Flat Floorboard A15-18
Socket Cap Screws, Metric A16-11-13
Socket Set Screws, SS A13-4
Socket Head Cap Screws A10-10-12
Socket Shoulder Screws A10-15
Stainless Steel A13-4
Socket Cap Screws, SS A13-4-5
Socket Set Screws
Cup Point A15-21
Knurled Point A15-21
SPAX® Unidrife® A15-19
Square Head Set Screws A15-20
Tamper-Proof
Machine A15-19
Sex Bolts A15-20
Sheet Metal A15-20
Tapping J10-43-45
TEKS®
Bugle Head Phillips A15-7
Hex Serrated Washer Head A15-8
Hex Washer Head A15-7-8
Hex Washer Head Self-Sealing A15-8
Pan Head Phillips A15-7
Rock-On Flat Phillips A15-9
Stainless Steel
Hex Washer Head A13-10
Pan Head Phillips A13-10
Wall Liner Torx® A15-9
Thread Cutting
Flat Phillips A15-6
Hex Unslotted A15-5
Hex Washer Unslotted A15-5
Pan Phillips A15-6
Pan Slotted A15-6
Type "F" A15-5-6
Thread Rolling
Hex Washer Tri-Roundular A15-6
Thumb A15-15
Torx Floorboard Screws A15-18
Trim J10-46
Tri-Roundular A15-6
Universal Self-Drilling A15-19
Wall Liner Torx® Teks® A15-9
Winged Self-Drillers A15-10
Wood Screws
Brass A13-17-18
Flat Phillips A15-17
Flat Slotted A15-16
Flat Square Drive (Robertson®) A15-17
Oval Slotted A15-17
Round Slotted A15-18
Stainless Steel A13-10-11
SCRIM WIPERS D14-13
SCRUBS®
In A Bucket C12-5
SEAL-ALL - ALL PURPOSE ADHESIVE C11-3
SEAL CLAMPS, EXHAUST H19-4
SEAL PULLER G16-12
SEAL-IT, MULTI-PURPOSE SEALANT C13-1
SEAL-RITE DRAIN PLUGS L14-7
SEAL-RITE GASKETS L14-7
SEAL-RITE KIT L14-7
SEAL-RITE TAPS L14-7
SEAL-UP, ENGINE BLOCK SEALER C11-15
SEALED BEAMS/HEADLAMPS G13-2
SEALER
Ignition C11-15
Seal-Up (Metallic Block & Rad.) C11-15
SEALING COMPRESSOR WASHER KITS, GM L17-11
SEALING WASHER/PILOT INSERTS, GM L17-12
SEALS
Gladhand G15-27
SEAT BELTS D14-26
Cutter D14-26
SEAT COVERS
Plastic D14-14
Seat-Mate® D14-14
SECURITY LINKS A20-4
SECURITY SCREW REMOVER TOOL A15-20
SELECT FLOW™ DISPENSER D14-13
SELF-ALIGN BRASS FITTINGS B13-11
SELF-DRILLING SCREWS A15-7
SELF-DRILLING WINGED SCREWS A15-10
SELF-FUSING SILICONE TAPE E12-6
SELF-IGNITING TORCH, TS7000 ..... D13-10
SELF-SEALING GALVANIZED WASHERS A14-6
SELF-STRIPPING WIRE CONN E12-6
SELF-TAPPING PAN BOLT H17-2
SERPENTINE BELT WRENCH SET G16-13
SERRATED FLANGE BOLTS A12-6
SERVICE TRAYS M10-3-4
SET SCREWS
Metric A16-21
Stainless Steel A13-4
Steel A15-21
SHACKLES, ANCHOR A20-6
SHAFT COLLARS
Set Screw Type A18-10
Two Piece, Clamp-Type A18-10
SHAKER SCREEN BOLTS
Grade 5 ..... A12-2
Grade 8 ..... A12-2
SHEET GASKET MATERIAL L15-1
SHEET METAL PLUGS, SNAP-IN J10-41
SHEET METAL SCREWS
Flat Phillips A15-3
Flat Slotted A15-3
Hex Unslotted A15-5
Hex Washer Slotted A15-4
Stainless Steel A13-13
Oval Phillips A15-2-3
Oval Slotted A15-2
Pan Phillips A15-1
Pan Slotted A15-1
Pan Square Drive (Robertson®) A15-2
Phillips Combo Head A15-1
Square Drive A15-2
Stainless Steel A13-11-13
Tamper-Proof A15-20
Truss Phillips A15-4
Truss Phillips SMS A13-12
Truss Slotted A15-4
Unslotted Hex Head w/loose washer A15-4
SHIFT INSULATORS, TRANS H17-1

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

S

SHIMS
Body Alignment J10-40
SHOP
Apron D14-18
Bags, Kwikee™ D14-14
Equipment D14-16-17
Towels D14-12
Towels In A Box, Scott® D14-12
Use Items....D14-15
SHRINK 'N SEAL STEP-DOWN BUTT CONNECTORS E10-20
SHRINK 'N SEAL TERMINALS E10-19-22
SURE SHOT SPRAYERS C14-8
SIGNS
"Caution Wet Floor" D14-8
Safety D14-26
SILICONE CARBIDE SCREENCLOTH D10A-6
SILICONE LUBE C10-3-4, 12
SILICONE RADIATOR HOSE....L15-1
SILICONE, RTV
Aluminum C11-1
Black....C11-1, 12
Blue C11-1, 12
Clear....C11-1, 12
Copper....C11-12
Grey....C11-12
Orange C11-13
Red....C11-1, 13
Ultra Black....C11-12
White C11-1
SILICONE SEALANTS, MCKANICA C11-12
SILICONE TAPE, SELF-FUSING....E12-6
SILICONIZED ACRYLIC LATEX CAULK C11-2
SILVER BRAZING FLUX PASTE D13-10
SILVER TAPE....D14-2
SINGLE STEP PRIMER, 3M C11-14
SINGLE STRAND MUSIC WIRE....D14-15
SLEEVING, EXPANDABLE MESH E12-19
SLIDE RACKS M10-5
Locking Hinges....M10-5
Stands M10-5
SLIK N KLEEN C10-4
SLIM LINE WASHERS....L17-3
SLIME, FLAT TIRE ELIMINATOR H11-7
SLINGS, H.D. INDUSTRIAL....A20-10
SLIP HOOKS A20-6
SLIP JOINT PLIERS D11-6-7
SLIPTAC BEAD LUBRICANT....H11-8
SLOTTED HEX NUTS, STEEL....A11-7
SLOTTED HEX WASHER SMS A15-4
SMART BLEND® TRANS. PRODUCTS
Synthetic Auto. Trans. Fluid
D-VI Supplement C10-15
M-V Supplement....C10-15
Synthetic Highly Friction Modified ATF Supplement....C10-15
Trans Flush Cooler Flush Kit C10-15
Trans Prep Assembly Lube C10-15
SMART VOV, ORIFICE VALVE....L17-14
SNAP HOOKS A20-6
SNAP-IN SHEET METAL PLUGS J10-41
SNAP-LOCK PINS....A20-11
SNAP PEAR HOOKS A20-8
SNAPS A20-8
SNIPS, AVIATION....D10C-43
SNOW PLOW OIL C10-9, C14-3
SNOW PLOW QUICK-LIFT C10-9, C14-3
SOAPSTONE & HOLDER....D13-7
SOCKET/PIGTAILS/CONNECTORS
Ford
Electrical Repair Harness....G11-2
Engine Management....G11-5
Heating/AC/Cooling System....G11-5
Interior/Dash....G11-5
Lighting....G11-3
Miscellaneous G11-5
GM
Alternator/Regulator G11-6
Electrical repair Harness G11-3
Engine Management....G11-7
Heating/AC/Cooling System....G11-7
Ignition System....G11-6
Interior/Dash....G11-6
Miscellaneous G11-7

DESCRIPTION GROUP / PAGE

S

Lamp Sockets
Chrysler....G11-1-2
Ford....G11-1-2
GM G11-3-4
Miscellaneous/Universal G11-5
Universal G11-1, 3
SOCKET
3/8" Drive & Sets....D11-2
1/2" Drive & Sets....D11-2
Cap Screws, Socket Metric....A16-11-13
Drive Adapter....D11-3
Drive Spinner Handle....D11-3
Extensions D11-3
Hex Sets D11-2
Low Profile....G16-2-3
Multi-Grip Universal D11-1
Oil Filter....G16-2-4
Torx® Tamper-proof D11-1
Universal Joint D11-3
SOCKET HEAD CAP SCREWS
Button Head....A10-16
Flat Head (Socket)....A10-14
Low Head....A10-13
Metric A16-11-13
Shoulder....A10-15
Metric....A16-12
Stainless Steel....A13-4-5
Tamperproof A10-16-17
SOCKET HEAD SCREWS
Set Screws....A15-21
Set Screws, Stainless Steel....A13-4
Set Screws, Metric....A16-21
Socket Head C/S, Metric A16-11-13
Socket Head C/S, SS A13-4-5
SOCKET SET
Hex Bit D11-2
Torx D11-1-2
Tamper-Proof D11-1
SOCKETS, OIL FILTER....G16-2-4
SOLDER FITTINGS, COPPER....B10-7
SOLDER PASTES
Aluminum Bearing D13-9
Copper Bearing....D13-9
Silver Bearing D13-9
SOLDERBOND BATTERY SLUGS E15-12
SOLDERING FLUX D13-10
SOLDERLESS TERMINALS
Insulated E10-23-26
Non-Insulated E10-27-31
SOLDER 'N SEAL TERMINALS E10-9-11
SOLDERS D13-9
SOLENOID, CONTINUOUS STARTER G12-3
SOLID RUBBER DRUMS D10A-8
SOLID WALL ANCHORS
Alligator®....A21-5
SOLVENT SPRAYERS C14-7-8
SORBENT ROLLS D14-25
SOUND SILENCERS....D14-21
SOUTHCO RIVETS A19-9
SPARK LIGHTER....D13-7
SPARK PLUG
Coil Thread Insert Repair Kit....A17-5
Keenserts....A17-3-4
SPARK PLUG COIL-THREAD A17-5
SPARK PLUG KEENSERTS....A17-4
SPAX® UNIDRIFE® SCREWS A15-19
SP-400™ CORROSION INHIBITOR C10-8, C13-1
SPC NO-STICK C10-8
SPEAKER WIRE....E11-3
SPECIAL APPLIC. RIVETS J10-57, 60-62
SPECIAL BRASS FITTING ADAPTERS B13-22
SPECIAL ORDER PRODUCTS M10-17
SPECIAL ORDER TOOLS....D10C-45 INDEX
SPECIALTY DRILLS
Spade Wood....D10B-25
SPEED NUTS
Extruded....J10-34-36, 50
Flat Type A11-10, J10-50
Tubular....A11-10
"U" & "J" Type A11-10, J10-35-36, 50
SPEED WRENCH....D11-3
SPILL CLEAN-UP KIT....D14-25
SPILL-PROOF DRAIN PAN....G16-9

DESCRIPTION GROUP / PAGE

S

SPILL-PROOF GAS CANS D14-16
SPIRAL BANDS....D10A-8
SPIRAL POINT TAPS D10B-29
SPIRAL SPRING PINS....A18-5
SPLICING KIT, O-RING....B14-5
SPLICING TAPE, LINERLESS....D14-1, E12-6
SPLIT BOLT CONNECTORS....E10-33
SPLIT FLANGES, EXHAUST....H19-2
SPLIT LOCK WASHERS
High Collar A14-4
Metric A16-18
Stainless Steel A13-9
Standard A14-4
Steel A14-4
Supralloy High Strength....A14-4
SPOTWELD DRILLS D10B-25
SPRAY ADHESIVE, 3M SUPER 77 ....C11-3
SPRAY-A-GASKET....C11-4
SPRAY CAN TRIGGER HANDLE, AEROSOL C14-8
SPRAY NINE C12-2
SPRAY PAINTS
AlumiBlast....C13-3
Cast Blast C13-4
Chrome-Brite C13-4
Flexible Bumper & Trim C13-4
Fluorescent....C13-3
Hardware C13-3
Hi-Tech Engine....C13-4
MRO High Solids C13-2
Safe-Step, Anti-Slip Epoxy Coating C13-4
Stainless Steel....C13-3
Stripe Inverted Tip C13-2
SPRAYERS C14-7-8
Commercial, Bulk....C14-8
SPRING ACTION HOSE CLAMPS B12-3
SPRING CENTER BOLTS....A12-7
SPRINGLOCK
Parts L17-12
SPRING ROLL PINS A18-4-5
Metric A16-24
SPRING WASHERS A14-3
Metric A16-18
SPRINGS
Compression....A18-10
Extension A18-11
Pedal L11-3
Turn Signal G12-3
Universal....A18-10-11
Universal Small....A18-11
SQUARE CAGE NUTS....A11-10
SQUARE CUT O-RINGS B14-3
SQUARE DRIVE SCREWS
Sheet Metal....A15-2
Wood Screws....A15-17
SQUARE NUTS A11-8
SQUARE KEYSTOCK, STAINLESS STEEL....A13-6
SQUARE BEVELED WASHERS....A14-2
SQUARE "U" BOLTS....A12-9
SQUEEGEES....D14-8, 11
STACKABLE BINS M10-9
STAIN & SPOT REMOVER....C12-1, 13
STAINLESS STEEL
18-8 Fender Washers A13-9
18-8 Heavy Hex Nuts....A13-7
18-8 Rod Coupling Nuts....A13-10
316 Hex Jam Nuts A13-7
316 Nylon Insert Lock Nuts....A13-7
Blind Rivets A19-3
Cap Nuts A13-8, A16-27
Cap Screws A13-1-3
Carriage Bolts A13-6
Chain A20-3
Cleaner/Polish C12-1
Clevis Pins A13-16
Cotter Pins A13-17
Epoxy C11-10
Finished Nuts....A13-6, 8A
Flat Washers....A13-8-9
Food Processing & Service Asst....A13-3
Hair Pins A13-16
Heavy Hex Nuts....A13-7
Hex Head Cap Screws A13-1-3

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

S

18-8 Stainless Steel A13-1-2
316 Stainless Steel....A13-3
Metric....A16-27
Hex Jam Nuts....A13-6, A16-27
Hex Slotted Washer Head, SMS....A13-13
Hose Clamps B12-1
Lag Screws A13-6
Lock Washers A13-9
Toothed A13-8
Machine Screws
18-8 Truss Phillips....A13-13
18-8 Truss Slotted A13-13
Hex, Trimmed Head, Unslotted A13-16
Metric Slotted Flat....A16-29
Slotted Flat A13-15
Slotted Round....A13-15
Nuts A13-7
Phillips Oval....A13-14
Phillips Pan....A13-14
Torx® Pan....A15-13
Micro, Hose Clamps....B12-2
Nylon Lock Nuts....A13-7
Phillips Oval Machine Screw....A13-14
Pipe Fittings....B10-3-4
Rivets A19-3
SMS Slotted Pan....A13-11
SMS Slotted Flat....A13-12
SMS Phillips Flat....A13-12
SMS Phillips Oval A13-12
SMS Phillips Truss....A13-12
Socket Cap Screws, Metric Flat....A16-28
Socket Head Cap Screws....A13-4-5
Socket Head Set Screws A13-4
Socket Head Shoulder Screws A13-4
Square Keystock....A13-6
TEKS® Screws A13-10
Threaded Rod....A13-9
Metric....A16-30
"U" Bolts....A13-16
Wing Nuts A13-8
Wood Screws Flat....A13-10-11
STAINLESS STEEL FASTENERS....A13-1-3
STANDARD ALLOY WASHERS....A14-2
STANDARD DRAIN PLUGS....L14-2
STANT RADIATOR TESTER....L13-1
STARTER
Pedal Springs....L11-3
Solenoid, Continuous Duty....G12-3
STARTER LUGS, UN-PLATED SEAMLESS COPPER, CORRECTCONNECT™ E15-10
STARTING FLUID C14-2
STEEL BLIND RIVETS....A19-2-3
STEEL BRUSHES....D10A-2
STEEL INSULATED MOUNTING CLIPS E12-17
STEEL/NYLON BRUSHES D10A-2
STEEL PLUGS....L14-8
STEEL RIVETS....A19-2-3
STEEL SAFETY CANS D14-16
STEEL SLEEVE w/DRAG GUARD B11-5
STEEL STEP STOOL....D14-16
STEEL TUBE NUTS H15-4
STEEL TUBING, BRAKE LINE....H15-1
PVF Coated H15-2
STEEL TUBING B13-30
STEEL WIRE BRUSHES & WHEELS D10A-1-3
STEEL WOOL D10A-16
STEP BOLTS....A12-1
STEP-DOWN BUTT CONNECTORS
MultiLink....E10-14A-B
Shrink N' Seal E10-14A-B, 20
Uninsulated....E10-14A-B, 30
STEPLESS® EAR CLAMPS B12-4
STEP STOOL, STEEL....D14-16
STIKIT
Disc Pad....D10A-7
Gold Disc Rolls....D10A-7
Green Disc Rolls D10A-7
STONE GUARD....C13-1
STOOL, STEEL STEP....D14-16
STOP LEAK, HEAVY DUTY RADIATOR ...C11-16
STORAGE
Bins & Accessories M10-1-2, 7
Cabinets....M10-7-8

S

Containers....M10-9
Door Tray M10-16
Racks M10-13-16
Trays & Accessories M10-3-5
Plastic M10-10
Trunk & Van Cabinets & Access. M10-17
STORAGE COATING....C13-1
STOVE BOLTS, STEEL
Slotted, Round....A12-7
Slotted, Truss....A12-8
Slotted, Flat....A12-7
STOVER LOCK NUTS
GR-5 ....A11-3
GR-8 ....A11-3
L9® A11-3
STOWAWAY ORGANIZER M10-10
STRAIGHT LINK CHAIN A20-1
STRAIGHT LOCK-ON CHUCKS....B11-3
STRAIN RELIEF CONNECTORS....E12-6
STRAPPING, PERFORATED HANGER....D14-15
STRAPPING TAPE....D14-3
STRETCH & SEAL TAPE D14-1
STRING REPAIR, TIRE....H11-3
STRING REPAIR TOOL....H11-6
STRIPE
Applicator Tools
Athletic Marker Machine....C13-3
Curb Marking Wand C13-3
Marking Gun....C13-3
Marking Wand C13-3
Traffic Marker C13-3
Athletic Field Marker Paint....C13-2
Golf Course Marker Paint C13-2
Inverted Tip Marker Paint C13-2
Traffic Marker Paint C13-2
STRIP-IT DISCS....D10A-16
STRIPPER, WIRE....D11-13
Voltage Sensing....D11-14
STROBE LIGHT G15-22-23
LED Integral....G15-10
STRUCTURAL TRIFURCATING BLIND RIVETS A19-5
STUD BOLT ANCHORS....A21-8
STUDS
Double End, Metric A16-22
Fully Threaded B-7 ....A12-10
Metric A16-22
Universal....A12-11
Wheel H14-1-5
SUCTION GUN....G16-8
SUNSCREEN WIPES C14-1
SUPERBOND 8000 STRUCTURAL ADHESIVE C11-9
SUPERCOOL A/C PRODUCTS
A/C Seal Leak Stop....L17-19-20
Concentrated U/V Dye L17-19
PAG Oils L17-18-19
SUPER 77, 3M SPRAY ADHESIVE C11-3
SUPER BLASTER TORCH D13-10
SUPER COMBINATION WRENCH SETS, TIGHT GRIP....D11-3
SUPER GLUE GEL C11-4
SUPER GLUE REMOVER....C11-5
SUPER SEAL....L17-20
SUPER TAPE D14-1
SUPER TOGGLER® (TOGGLER™) A21-4
SURE GRIP LOCKING TOOL....D11-9
SURE SHOT SPRAYERS C14-8
SURFACE CONDITIONING HAND PADS D10A-16
SURFACE PREPARATION DISCS D10A-14-15
SURGE & NOISE SUPPRESSORS E13-1
SWEATBANDS D14-18
SWITCHES
A/C Pressure Cycling L17-15
Back-Up Alarm G15-20
Disconnect/Selector....G12-3
Foot Operated Floor G12-3
Marine....G12-2
Push Button....G12-2
Push-Pull G12-2
Rocker G12-2
Solenoid, Continuous Duty....G12-3

S-T

Toggle....G12-1
SWIVEL AIR HOSE FITTINGS....B11-9
SYNTHETIC NON-WOVEN ABRASIVES....D10A-14-16
SYSTEM GUARD™ KIT L17-22
SYSTEM PORTS, TOOLS L17-16

T • T • T

T-BOLT HOSE CLAMPS....B12-2
T-HANDLE HEX KEYS....D11-5
T-HANDLE PROBE TOOL....H11-6
TACK & BOND....C11-15
TACK CLOTH....D14-11
TAIL PIPE
Clamps....H19-1
Hangers H19-1
TAMPERPROOF
Cap Screws A10-16-17
Hex Keys D11-6
Machine Screws A15-19
Screw Remover A15-20
Sex Bolts....A15-20
Sheet Metal Screws A15-20
Driver....A15-20
TAMPER SEAL, ANTI-SABOTAGE MARKER C13-1
TANK VALVES, BRASS B13-28-29
TAP & DIE
Sets D10C-30
Carbon Steel....D10C-27-30
High Speed Steel D10C-29
Sets D10C-30
Tools D10C-30-31
TAP BOLTS
Grade 5, Full Thread....A12-4
Grade 8, Full Thread....A12-4
Grade 2, Hex Head, Full Thread....A12-5
TAPCON FASTENERS FOR MASONRY A21-6
TAPE MEASURE....D11-12
TAPER PINS....A18-6
TAPES
3M Blue Painter's....D14-3
Aluminum Foil D14-3
w/Butyl Rubber Liner....D14-3
Amalgamating Wrap, Rubber D14-2
Anti-Slip, 3M Safety-Walk....D14-4
Barricade D14-4
Carton Sealing....D14-3
Heavy Duty....D14-3
Cloth, Plastic Coated D14-2
Color Coding....D14-2
Conspicuity, Reflective Marking G15-19
Dual Lock Reclosable Fastening System, 3M....D14-5
Duct & Seat Repair....D14-2
Transparent....D14-2
Electrical
3M Super 33+....D14-1
3M Temp. Compensated Vinyl....D14-1
E-Z Seal Dielectric Compound....D14-1, E12-6
Friction....D14-1
Glass Cloth Hi-Temp D14-1
Gorilla D14-3
Hazard Stripe....D14-4
Insulated D14-4
Insulation....L17-20
Linerless Splicing D14-1, E12-6
Liquid Electrical....C11-2, D14-1
Masking, 3M Green D14-5
Masking, Utility Grade....D14-3
Non-Slip, SAF-STEP D14-4
Post-It, 3M Removable Labeling....D14-3
Pressure Sensitive, 2-Sided, Foam D14-5
Reflective....G15-19
SAF-STEP Non-Slip D14-4
Safety Walk....D14-4
Self-Fusing Silicone E12-6
Strapping, Reinforced....D14-3
Stretch & Seal....D14-1

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

T

Teflon Thread Sealing.....C11-8, D14-2
Threadlocker.....C11-7
Velcro D14-5
Weatherstrip D14-4
"Weather-Tite" Seal Foam D14-4
TAPMATIC CUTTING FLUID.....C10-6
TAPPING SCREWS.....J10-43-45
TAPS D10C-27-30
Pipe Thread.....D10C-30
Seal-Rite.....L14-7
TARPAULINS, POLYETHYLENE A20-10
TARP STRAPS.....A20-10
TEE NUTS A11-9
TEES, VACUUM.....L11-2
TEES, FLUSHING.....L15-2
TEFLON® LUBRICANT C10-4
TEFLON® TAPE & SEALANTS.....C11-7-8, D14-2
TEFLON® THREAD SEAL COMPOUND C11-8
TEKS®, DRILL SCREWS.....A15-7-9
TERMINAL EXTRACTORS.....G16-11
TERMINALS
Battery
Bolts, Side E15-13
Compression E15-8
Double Crimp Type E10-1-7
Import E15-4
Lugs.....E15-8-11
Marine.....E15-5
Passenger Car.....E15-4
Post E15-3-4
Protector Boots.....E15-3
Quick Action E15-5
Straight Sandcast Copper
Solderbond E15-11
Truck.....E15-5
Universal.....E15-4
Deutsch.....E10-31-32
High Temperature, Non-Insulated.....E10-27
Non-Insulated E10-27-31
Open Barrel.....G11-8-10
MultiLink.....E10-12-18
Permatite, Double Crimp E10-1-7
Safety Connectors E12-3
Shrink 'N Seal.....E10-19-22
Shrink 'N Seal Step Down
Butt Connectors E10-14A-B, 20
Solder 'N Seal.....E10-9-11
Solderless, PVC Insulated.....E10-23-26
Large Gauge.....E10-8
Solderless, Non-Insulated.....E10-27-31
Step Down Butt, Vinyl Insulated.....E10-26
Tool, GM.....G16-11
TEST CLIPS, ELECTRICAL.....E12-20
TEST STRIPS
Coolant G16-12
TESTING EQUIPMENT
Circuit Testers.....D11-14
THE BIGEASY™ LOCKOUT TOOL G17-11
THE "RIGHT STUFF".....C11-13
Caulking Gun.....C11-13
For Imports C11-13
THERMOSTEEL, 2400°F C11-10
THOMAS & BETTS
HEAVY DUTY PRODUCTS E14
COLOR-KEYED® BATTERY CONNECTORS
Battery/Starter Cable E14-3
Battery Installation Tools E14-4
Kopr-Shield® Conductive Anti-Corrosion
Surface Compound.....E14-4
Sand Cast Tin Plated
Flag E14-2
Elbow E14-2
Straight.....E14-1
Splices
(2 way connectors).....E14-3
Stackable Battery Connectors,
Lead Plated E14-3
Starter Lugs, Tin Plated.....E14-2
Universal Battery Connectors.....E14-1
E-Z-CODE®
Identification Products E14-10
MARRETTE®
Wire Connectors, Non-Winged,
Winged E14-10

DESCRIPTION GROUP / PAGE

T

SHRINK-KON®
Heat Shrinkable Insulators E14-5
TY-RAP® Cable Tying System
Cable Straps and Clamps.....E14-9
Cable Ties
Standard Nylon 6/6 .....E14-8
Weather Resistant,
Nylon 6/6 .....E14-8
DELTEC® Cable Ties.....E14-6
Mounting Bases (Adhesive backed,
Epoxy or Screws) E14-9
Releasable Hanger Straps
Weather-Resistant E14-7
Stainless Steel Cable Ties.....E14-7
Universal Clamp E14-7
XTRAFLEX®
Corrugated Flexible
Nonmetallic Tubing.....E14-12
Liquidtight Nonmetallic
Conduit Tubing E14-11
Plastic Bullet® Liquidtight
Conduit fittings.....E14-11
THREAD CUTTING NUTS J10-50
THREAD CUTTING SCREWS
Flat Phillips.....A15-6
Hex Unslotted A15-5
Hex Washer Unslotted.....A15-5
Pan Phillips A15-6
Pan Slotted A15-6
Type "F" A15-5-6
THREAD FORMING TAP KIT,
OIL DRAIN PAN.....D10C-31
THREAD LOCKER GEL.....C11-14
THREAD LOCKERS C11-7-8, 14
THREADLOCKER TAPE C11-8
THREAD REPAIR
Clinch-Nuts® A17-1, J10-52
Tools.....A17-1
Coil-Thread.....A17-5-6
Tools.....A17-6
Drill Out D10C-33
External Bolt Rethreading Tool D10C-32
Extractor Tools.....D10C-32-33
Grip-N-Serts.....A17-2
Heli-Coils.....A17-6
Oil Drain Plug Repair Kit.....A17-6
Internal Thread Restorers D10C-32
GM Brake Caliper A17-6
Keenserts.....A17-3-4
Mandrels and Nosepieces J10-53
Oil Drain Plug Repair Kit.....A17-6
Rivet-Nuts A17-2, J10-53
Tools.....A17-1, J10-53
Spark Plug Coil Thread.....A17-5
Tap & Die Kits D10C-30
Universal Thread Repair
Combo - Int. & Ext. D10C-31
THREAD ROLLING SCREWS A15-6
THREAD SEALANTS
Compound C11-8
Permatex C11-8
Pro Lok™ Products.....C11-7
Sealing Tape.....C11-8
Teflon C11-8
Threadlocker.....C11-7-8, 14
THREAD TREATMENT STICKS,
LOCTITE® C11-5
THREADED PITCH GAUGE D11-12
THREADED ROD
Anchoring System, Hangermate® A21-9
B-7 .....A12-10
Brass A13-19
Metric A16-21
SAE & USS.....A12-10
Stainless Steel A13-9
Metric.....A16-30
Standard Steel A12-10
THREADED ROD COUPLINGS
Metric A16-21
Standard A12-11
THREADED SLEEVE BRASS FITTINGS ...B13-19
THROTTLE LINKAGE BALL JOINTS A20-13
THUMB SCREWS.....A15-15
License J10-42

DESCRIPTION GROUP / PAGE

T

TIE DOWN STRAPS.....A20-4
TIP CLEANERS, WELDING.....D13-7
TIRE
Bow Tie Inserts.....H11-4
Cleaning Brushes D14-7
Europaste H11-8
Gauges.....G16-16
Pressure Gauges.....G16-16
Repair
Accessories
Valve Caps.....H11-2
Valve Cores H11-2
Valve Extensions H11-2
Bead Sealer.....H11-5, 7
Chemicals.....H11-3, 5, 7
Marking Crayons H11-7
Mounting Lubricant.....H11-3
Patches H11-3-6
Radial.....H11-4, 6
Rema H11-4-5
Rubber Tire/Tube.....H11-6
Truck H11-4
Repair Plug-n-Patch H11-3
Repair Material H11-3
String.....H11-3
Repair Tool.....H11-6-7, G16-15-16
Rub-R-Kleen.....H11-7
Slime, Flat Tire Eliminator.....H11-7
Sliptac Bead Lubricant.....H11-8
Step D14-16
Strips H11-3
Swabs.....H11-7
Tire & Tube Compound H11-8
Tools H11-5-7, G16-15-16
Carbide Cutters H11-6
E-Z Plug Gun & Plugs H11-7
E-Z Probe H11-6
E-Z Strip Repair Needle H11-6
HD Truck Spring Repair Kit.....H11-6
Open End Needle.....H11-6
Professional HD Truck Tire Rasps.H11-5
Rema Stitcher.....H11-5
T-Handle Probe Tool.....H11-6
Tire String Repair Needle.....H11-6
Truck Closed-Eye Needle H11-6
Universal Cement H11-7
Valves.....H11-1-2
Bus H11-2
Snap-In High Pressure.....H11-1
Tubeless.....H11-1-2
Air-Liquid.....H11-2
Clamp-In H11-2
Inserting Tool H11-1
Yellow Tire Marking Crayons.....H11-7
TIRE & TUBE COMPOUND H11-8
TIRE/WHEEL TOOLS
Plug Gun.....G16-16
Probe G16-15
String Repair Tool.....G16-15
Thread Depth Gauge.....G16-16
Tube Deflator.....G16-16
Valve Core.....G16-16
Valve Fishing Tool.....G16-16
Valve Repair Tool.....G16-16
Valve Inserting Tool.....G16-16
Wheel Weight Remover.....G16-15
TITANIUM NITRIDE DRILLS D10B-19-20
TITEN™ HD THREADED ANCHORS A21-7
TOGGLE
Wing & Bolt Anchors.....A21-4
Drain Plug.....L14-6
Dual-Action A21-4
E-Z A21-5
Switches.....G12-1-3
Rubber Boot.....G12-2
TOGGLER® TOGGLE BOLTS.....A21-3
TOILET PAPER.....D14-14
TOOL COOLANT C10-7
TOOLS, SPECIAL ORDER.....D10C-45 INDEX
TORCH, MINI.....D13-10, E10-18A
TORCH, PENCIL FLAME.....D13-10
TORCH, SUPER BLASTER.....D13-10
TORCH, TS7000, SELF-IGNITING D13-10
TORQUE CONVERTER BOLTS & NUTS H17-1

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

T

TORX BITS D11-1-2
TORX FLOORBOARD SCREWS....A15-18
TORX KEYS D11-6
TORX PAN HEAD MACHINE SCREWS....A15-13
TOW CHAIN....A20-3
TOW ROPES A20-4
TOWELS
Blue Wiper D14-12
Dispenser D14-12
C-Fold D14-12
Dispenser D14-12
In A Box, Scott® D14-12
Kapow Heavy Duty C12-5
Kim "Brag Box" D14-12
Kraft Hand....D14-12
Dispenser D14-12
Shop D14-12
TRACTOR, 12V HALOGEN FLOOD SEALED BEAM ..G13-2
TRACTOR/UTILITY LIGHTS....G13-2
TRACTOR PAINT....C13-5
TRAFFIC CONES....D14-26
TRAILER CABLE E11-4
TRAILER LIGHTING CABLE....G15-25
TRAILER PLUG CLEANER....G15-25
TRAILER TAILLITE CONVERTER....G15-25
TRAILER WIRE CONNECTORS G15-24-25
TRANS/FUEL/AIR CONDITIONING
DISCONNECT SET G16-11
TRANSFER CASE & DIFFERENTIAL
PLUG, GM L14-7
4WD L14-7
TRANSMISSION
Additives, Smart Blend® C10-15
Aluminum Plug L14-7
Brass Fittings....H17-1
Compression Unions H17-1
Cooler Hose....H17-2
Cooler Line Connectors....H17-1
Cooler Line O-Rings H17-2
Cooler Line Retaining Clip
w/O-Rings, GM H17-2
C/V
Boot Clamps....H17-3
Boot Kits....H17-2
Drain Funnels....G16-8-9
"E" Clips H17-1
Filter Kits
Chrysler....H18-1-2
Ford....H18-2-4
General Motors H18-5-6
Import H18-7
Interchange H18-8-9
Fittings....H17-1-2
Flush Cooler Flush Kit C10-15
Fuller Special Fittings....B13-18
Gearshift Insulators....H17-1
Grommets....H17-1
Inverted Flare Nuts H17-1
Linkage Pins H17-1
Pan Bolt H17-2
Prep Assembly Lube....C10-15
Quick Disconnectors....H17-2
Shift Insulators....H17-1
Throttle Valve/Passing Gear
Rod Grommet H17-1
Torque Converter Bolt H17-1
Nuts H17-1
Vacuum Tees....H17-1
TRANSPARENT DUCT TAPE D14-2
TRANSPORT CHAIN....A20-1
TRASH BAGS D14-14
TRAYS & ACCESSORIES,
STORAGE M10-3-5, 10, 16
TRIANGLE, WARNING....G15-12
TRICO® EXACT FIT® WIPER BLADES....G10-2
Rack M10-15
TRICO® WINTER BLADES G10-2
TRIDON® ALL SEASON PLUS
BLADES/REFILLS G10-2
TRIDON® CUT-TO-FIT ALL SIZE
REFILLS™ G10-2
TRIM-KUT DISCS & ACCESSORIES....D10A-9
TRIM

T-U

Adhesive C11-14
Rivets J10-56, 60
Screws....J10-46
TRIPLE EDGE RECIPROCATING
SAW BLADES D10C-39-40
TRIPLE TOOTH HACKSAW BLADES....D10C-34
TROUBLE LIGHTS....D12-2
Accessories D12-2
Fluorescent....D12-2
TRUCK & VAN CABINETS & ACCESSORIES..19
TRUCK CIRCUIT BREAKERS....G14-6
TRUCK CLOSED-EYE NEEDLE....H11-6
TRUCK HARDWARE....G15-26
TRUCK MUFFLER CLAMPS
Heavy Duty H19-1
Welded....H19-1
TRUCK STUDS & NUTS....H14-10
TRUCK WASH BRUSH....D14-7
TRUCK WHEEL WEIGHTS....H10-2, 5-6
TS7000 SELF-IGNITING TORCH D13-10
TUBE BENDER B13-31
TUBE GRIP DISPENSER....C11-1
TUBE FITTING BRUSHES D10A-2
TUBING
Air Brake, Nylon....B13-30
Cold Shrink E12-7
Heat Shrink....E10-18B, E12-8-8B
Copper B13-30
Multiple Wire High Adhesive
Heat Shrink....E10-18B, E12-8A
Nylon, Gen. Purpose....B13-30
Nylon, Metric....B13-30
Polyethylene B13-30
Steel B13-30
Vinyl B13-29
TUBING CUTTER....B13-31
TUBING, GARAGE EXHAUST D14-6
TUBULAR SPEED NUTS....A11-10
TUNE-UP GREASE, PERMATEX® C10-12
TURNBUCKLES....A20-7
TURN SIGNAL RETURN SPRINGS G12-3
TWINE A20-9
TWO CYCLE OIL....C10-14
TWIST LINK CHAIN A20-1
TWIST-LOCK DISCS, ROLOC D10A-10
TYLENOL EXTRA-STRENGTH D14-23

U • U • U

U-BEND HOSE COIL....L15-2
"U" BOLTS A12-9
18-8 Stainless Steel....A13-16
"U" SPEED NUTS....A11-10, J10-35-36, 50
Metric A16-17
ULTRA DISC BRAKE CALIPER LUBE,
ULTRA MOLY MUSCLE DRILL BITS
Quick Release Style D10B-24
ULTRA SCREWLOOSE®
SUPER PENETRANT....C10-3
UN-DO-IT TOOL A15-20
UNDERCOATING....C13-1
UNIBIT
Titanium Step Drills D10B-20
Drills D10B-20, 26
UNIDRIFE® SPAX
FLAT HEAD SCREWS A15-19
UNINSULATED STEP-DOWN
BUTT CONNECTORS E10-14A-B, 30
UNIVERSAL BUZZER....G12-3
UNIVERSAL CEMENT H11-7
UNIVERSAL FLUORESCENT
LEAK DETECTOR DYE....L17-19
UNIVERSAL HIGH SIDE IN-LINE FILTER..L17-17
UNIVERSAL LEAD-FREE BATTERY
TERMINAL E15-4
UNIVERSAL LICENSE PLATE BRACKET....G15-20
UNIVERSAL ROLL TOWEL
DISPENSER D14-13
UNIVERSAL SAFETY LATCH KITS....A20-8
UNIVERSAL SIGNAL LIGHTING G15-6-10
UNIVERSAL SNOW PLOW/ATL LIGHTS..G15-23

U-V

UNIVERSAL SOCKET, MULTI-GRIP D11-1
UNIVERSAL THREAD REPAIR
COMBO - INT. & EXT. D10C-31
UNIVERSAL TYPE MOULDING FASTENERS...J10-37
UNTHREADED ROD A12-10
UPHOLSTERY CLEANER C12-13
URATIC SALT REMOVER, P-FREE....C14-5
URETHANE
Glass Sealant C11-14
URINAL BLOCKS D14-14
UTILITY BLADES D10C-44
UTILITY BOXES, PLASTIC M10-10
Stowaway Organizer M10-10
UTILITY BRUSHES, WIRE D10A-1-3
UTILITY CABINETS....M10-8
UTILITY GLOVES....D14-18
UTILITY HOOKS....A21-5
UTILITY KEY TAGS G17-1
UTILITY KNIFES....D10C-45
UTILITY LOCKS....G17-10
UTILITY SNIPS D10C-43

V • V • V

VACUUM
Caps L11-3
Connectors & Tees....L11-2
Hose G10-3, L11-1
Hose Fittings L11-2-3
Tees L11-2
Tools G16-11
VAL-U TRUCK LIGHTS G15-17-18
VALVE/O-RING LUBE
and SEAL C10-8, C14-3
VALVE, PCV L10-1-2
VALVES
Ball B10-8
Core Tools....L17-21
Cores & Kits L17-21
Drain Cocks....L15-3
Fuel Tank....B13-28-29
Gate B10-8
Heater, Manual B13-28-29
PCV L10-1-2
Shut-Off....B13-29
Water B13-29
VANDAL MARK REMOVER, GEL....C12-2
VANDLGARD NUTS....A11-9
VEHICLE MAINTENANCE TOOLS
Circuit Testers....D11-14
Battery Tools
Booster Cables....G16-10
Clamps....G16-10
Cleaner & Protector....G16-11
Cleaner & Reshapers....G16-10
Fillers....G16-10
Testers G16-10
Puller G16-10
Brake Service Tools
Cutting Bits....G16-15
Cylinder Hones G16-13-14
Electrical Service Tool
Circuit Tester D11-14
Distr. Term. Brush G16-12
Exhaust Tools
Pipe Shaper G16-13
E-Z Bond Tape D14-1
J-B Weld C11-10
Lubricating Tools
Big Range Filter Wrench....G16-1
Caulking Gun....D14-10
Funnels G16-8-9
Grease Fitting Remover....L14-12, G16-8
Grease Gun Coupler....G16-6
Grease Gun....G16-8
"K" Car Adapter....G16-6
Oil Filter Wrenches....G16-1
Suction Gun G16-8
Metal Epoxy
Fast Cure "45" C11-10
Plastic Epoxy

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

V-W

"Epoxy 45"....C11-10
Putties
Steel....C11-10
Radiator Cap Pliers....G16-12
Stik Epoxy....C11-10
Tire/Wheel
Gauges....G16-16
Plug Gun....G16-16
String Repair Tool....G16-15
Valve Inserter....G16-16
Wheel Weight Remover....G16-15
Tire Probe....G16-15
Valve Repair Tool....G16-16
Tube Epoxy & Adhesive....C11-11
J-B Weld....C11-10
VELCRO® CABLE WRAP....E12-14
VELCRO® TAPE....D14-5
VELOUR & CARPET CLEANER....C12-4, 13
VIBRA-TITE....C11-4
VINYL
Cleaner....C12-13
Gloves, Disposable....D14-19
VINYL SCREW ANCHORS....A21-2
VINYL TUBING....B13-29
VISE-GRIP PLIERS....D11-8
VITON INSERT OIL DRAIN PLUG GASKETS....L14-9
VOLTAGE SENSING WIRE STRIPPER....D11-14
VOLTAGE TESTER, AC SENSOR....D11-14

W • W • W

WALL DOG ANCHORS....A21-4
WALL GRIP ANCHORS....A21-4
WALLBOARD ANCHOR....A21-4
WAGNER
BriteLites....G13-2
Miniature Bulb/Lighting Program....G13-3
Storage Bin....G13-3
WASH MITT....D14-11
WASHERS
Back-Up....A19-25
Beveled, Square....A14-2
Bowed Spring....A14-3
Brass....A13-20
Bushings....A14-5
Cam-Lock, Steel....A14-5
Combination Internal / External Tooth Lock....A14-5
Copper Crush Met Drain Plug....L14-11
Copper, Metric....A16-19
Countersunk....A14-5
Finishing, Brass....A13-20
Finishing, Stainless Steel....A13-9
Deck....A14-6
Exhaust....H19-3
Fiber....A14-6
Fender
18-8 Stainless Steel....A13-9
Metric....A16-18
Steel....A14-3, J10-49
Finishing
Brass, N.P....A13-20
Steel, N. P....A14-3, J10-49
Flat
Brass....A13-20
Galvanized....A14-4
Grade 8
Alloy....A14-1
Heavy Duty....A14-2
L9®....A14-1
Metric....A16-18
Stainless Steel....A13-8-9
Standard USS & SAE....A14-2
Stainless Steel....A13-8-9
Galvanized....A14-4
Galvanized, Bonded Self Sealing....A14-6
Galvanized, Lock....A14-4
Lock Washer, Metric....A16-18
Galvanized....A14-4
Silicon Bronze....A13-21

DESCRIPTION GROUP / PAGE

W

Stainless Steel....A13-9
Supralloy....A14-4
Toothed....A14-5
Machine Screw, Steel....A14-3
Machinery Bushings....A14-5
Nylon....A14-3
Oversized, Steel....A14-3
Rivet Back-Up....A19-25
Self-Sealing Galvanized....A14-6
Silicon Bronze....A13-21
Split Lock
Hi-Collar....A14-4
Standard....A14-4
Supralloy High Strength....A14-4
Spring Steel, Bowed....A14-3
Metric....A16-18
Square Beveled....A14-2
Stainless Steel....A13-8-9
Standard Alloy....A14-2
Supralloy L9®....A14-1
Toothed....A14-5
Stainless Steel....A13-8
Vibration Resistant....A14-5
WASP & HORNET KILLER PLUS™....C14-1
WATER HOSE....D14-17
Menders....D14-17
WATER HOSE ACCESSORIES....D14-17
WATER NOZZLE....G16-9
WATERLESS HAND CLEANER, E-Z CLEAN....C12-8
WATERPROOF CONNECTORS....E12-3
WATER SEPARATOR, IN-LINE....B11-2
WATER VALVES....B13-29
WD-40®....C10-6
WEATHER-PACK CONNECTORS....G11-9
WEATHERCAPS....H19-4
WEATHERHEAD - HYDRAULICS....B29-1
WEATHERSTRIP
Adhesive....C11-14
Retainers and Clips....J10-12-13
Rubber....D14-4
Tape....D14-4
WEDG-LOK COTTER PINS....A18-2
WEIGHT GRADED PAG OIL....L17-18
WELD-OUT SPOTWELD DRILLS....D10B-25
WELD STUD REPLACEMENT SCREW, SS....J10-45
WELDING
Amco "C-Flux" Paste....D13-10
Anti-Spatter....D13-8
Bionic™ Shield....D13-11, D14-20
Replacement Visors....D13-11, D14-20
Blankets....D13-7
Brazing Rods....D13-1, 4A
Brushes....D13-6
Cable....E11-4, D13-6
Cable Connector Set....D13-6
Clamp, Vise-Grip....D11-8
Cleaner Kit....D13-7
Electrode Holder....D13-6
Face Shields....D13-11
Windows....D13-11
Flash Goggles....D13-7
Fluxall Soldering Flux....D13-10
Gloves, Heavy Duty....D13-7
Goggles....D13-7
Ground Clamp....D13-6
Hammers, Welding....D13-6
Heat Absorbing Paste....D13-8
Helmet....D13-11
Lenses & Plates....D13-7
Mig Wire....D13-5
Aluminum....D13-5
Cabinet....M10-13
General Purpose....D13-5
High Strength....D13-5
Mini Torch....D13-10
Pencil Flame Torch....D13-10
Rod Cabinet....M10-13
Rod Canisters, Patriot....D13-8
Rods....D13-1-4, 5
Scavenger Welding Wire....D13-5
Silver Braze Flux Paste....D13-10
Soapstone and Holder....D13-7

DESCRIPTION GROUP / PAGE

W

Solder
Electrical....D13-9
General Purpose....D13-9
Paste....D13-9
Plumbing/Wiping....D13-9
Spark Lighter....D13-7
Super Blaster Torch....D13-10
Tip Cleaner....D13-7
TS7000, Self-Igniting Torch....D13-10
Vise/Clamp Combo....D11-8
Vise-Grip Clamps....D11-8
Welding Rods, Patriot....D13-1-4, 5
Wire Brushes....D13-6
WELL NUTS....J10-51
WEST COAST MIRROR....G15-3
WHEEL BEARING
Grease....C10-13
WHEEL CASTER, CANTED....D14-16
WHEEL DISPENSER....M10-14
WHEEL NUTS
Bulge....H14-7-8
Covers....H14-9
Special....H14-7-9
Standard....H14-6
WHEEL REPAIR TOOLS....G16-15-16
WHEEL STUDS....H14-1-5
Farm Equipment....H14-1, 5
Trucks....H14-10
WHEEL WEIGHT REMOVER....G16-15
WHEEL WEIGHT TOOLS....H10-6-7
WHEEL WEIGHTS
Adhesive Style....H10-6
Non-Lead....H10-6
Assortments....H10-7
AW Series....H10-3
AWN Series....H10-3
EN Series....H10-5
FN Series....H10-5
I7 Series....H10-6
I9 Series....H10-6
IAW Series....H10-4
LH Series....H10-5
LT1 Series....H10-5
MC Series....H10-4
MCN Series....H10-4
P Series....H10-2
PS Coated Series....H10-2
QuickStik....H10-6
T Series....H10-2
TN Series....H10-2
Tools....H10-6-7
Truck....H10-2, 5-7
Uncoated....H10-2-4
WHEELS
Creeper....D14-16
Cut Off....D10A-12-13
Depressed Center....D10A-11
Grinding....D10A-11-12
Wire....D10A-1-3
WHIP HOSE ASSEMBLY....B11-1
WHITE SILICONE, RTV SEALANT....C11-1
WHITE SILICONE, RTV "MAKE-A-GASKET"....C11-1
WHITE GREASE
Lithium....C10-7
Lithium with Teflon, Aerosol....C10-6
Maxi Lube....C10-4
WICKING GRADE THREAD LOCK....C11-7
WINDOW
Glass and Door Rivets....J10-56, 60
Scraper....D10C-44
Squeegee....D14-8, 11
WINDSHIELD
De-Icer....C14-1
Repair Kit....C11-16
Reveal Moulding Clips & Fasteners....J10-12
Washer
Solvent Concentrate....C14-2
Solution Hydrometer....G16-13
Wiper Blades
Anco®
31-Series....G10-3
Aerovantage....G10-3
Rainy Day....G10-3

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION GROUP / PAGE

W

Bosch
DirectConnect G10-1
Evolution G10-1
Micro Edge G10-1
Winter Snow G10-1
Trico®
Exact Fit® G10-2
Rack M10-15
Winter Blades G10-2
Tridon®
All Season Plus™ G10-2
Cut-To-Fit G10-2
WINDSHIELD / GLASS GUIDES, CLIPS
Door Window Glass Guides J10-13
Door and Window
Crank Handle Clip J10-13
WEATHERSTRIP RETAINERS AND CLIPS J10-12-13
WINDSHIELD & BACKGLASS REVEAL MOULDING CLIPS AND FASTENERS
Reveal Moulding Clips J10-12
WINDSOFT® CENTER-FLOW HAND TOWELS D14-13
WING NUTS
Forged, Steel A11-8
Metric A16-17
Stamped, Steel A11-9
WINGED SELF-DRILLING SCREWS A15-10
WINGNUT LOCKING DRAIN PLUGS L14-6
WINTER/SUMMER FANS G10-3
WIPER
Blade Refills G10-1-3
Hose G10-3
Linkage Bushing G10-3
Racks M10-15
WIPERS
Disposable D14-12-13
Blue, On A Roll D14-12
Dispenser D14-12
WIPES
Antiseptic D14-24
E-Z C12-9
Gojo C12-8
Insect Repellent C14-1
Lens Cleaning D14-20
Sunscreen C14-1
WIRE
Brush D10A-1-3
Connectors
1/4" Female Quick Disc. T-Tap E12-4
3M Scotchlok™ Communication E12-6
Bullet Receptacle E12-4
Closed End E12-3, 4B
Direct Burial Splice Kits E12-1
Grounding E12-4
Instant Auto-Electrical E12-5
Motor Pigtail E12-2
Nylon Liquid Tight Strain Relief Cord E12-6
O/B, R/Y and B/G Scotchlok™ 2 Wire E12-2
Posi-Lock™ E12-4
Scotchlok™ 804 Moisture-Resistant Tap Connector E12-5
Self-Stripping Electrical Pigtail E12-6
Silicone-Filled Safety E12-3
Tru-Lock E12-4
Wire Nut E12-1
Waterproof E12-3
Coverings E12-19
Crimping Tool D11-13-14
Cutting Pliers D11-6-7
Gauge Chart E11-1
Lamp E11-3
Markers E12-7
Mechanics, Steel D14-15
Music D14-15
Primary
Bonded Parallel E11-3
Cross-Linked Insulation E11-2
Jacketed Plastic
Duplex E11-3
Triplex E11-3

DESCRIPTION GROUP / PAGE

W

Quadraplex E11-3
PVC Insulation E11-2
UL Listed E11-3
Rope A20-6
Vinyl Coated A20-6
Service Cord E11-3-4
Speaker E11-3
Strippers D11-13, 15
Terminal Brush G16-10
Ties E12-10-13
Tools E12-13
Trailer Lighting E11-4
Utility Brush D14-7
Welding D13-5
WIRE ROPE A20-6
Clips A20-5
Lubricant C10-5
Thimbles A20-5
Vinyl Coated A20-6
WIRE SOLDER D13-9
WIRE STRIPPER D11-13, 15
Voltage Sensing D11-14
WIRE WHEELS D10A-1-3
WIRING DEVICES
Cord Connectors
Ericson® Heavy Duty/ Industrial Type E13-1
Heavy Duty / Industrial Type E13-1
Industrial Auto-Grip E13-1
Versatile Weather-Resistant Field Conversion E13-1
In-Line Portable GFCI Receptacles E13-1
Multiple Outlet Strip E13-1
Surge & Noise Suppressors E13-1
WONDER PREMIUM HAND CLEANER C12-9
WOOD INSERTS, BRASS A11-9
WOOD SCREWS
Brass A13-17-18
Flat Phillips A15-17
Flat Slotted A15-16
Oval Slotted A15-17
Round Slotted A15-18
Square Drive, Flat A15-17
Stainless Steel A13-10-11
WOODRUFF KEYS A18-9
WOOL
Bronze D10A-16
Steel D10A-16
WOUNDSEAL™ D14-22
WORK GLOVES
HEAVY CANVAS D14-18
HEAVY DUTY D14-18
JERSEY D14-19
WORK LIGHTS D12-3
WORX™ HAND CLEANER C12-5
WRAP, RUBBER AMALGAMATING TAPE D14-2
WRENCH SETS, BLACKHAWK D11-4
WRENCHES
Adjustable D11-5
Combination D11-3-4
Drain Plug L14-7
Flare Nut D11-4
Flex Handle D11-3
Heavy Duty Pipe D1-4
Hex Key D11-5
Hex Key Sets D11-5-6
Internal Pipe D11-4
Oil Filter G16-1
Adjustable G16-1
"Big Range" G16-1
Import G16-1
"Swivel Grip" G16-1
"The Claw" G16-1
Wide Range G16-1
Ratcheting Adjustable Set D11-15
Serpentine Belt G16-13
Speed D11-3
WRISTBANDS, BUGBAND D14-26
WYPALL® WIPERS
Jumbo Roll Wiper Dispenser II D14-14
L30 Economizer® D14-13
L40 ....D14-13
X60 Teri® D14-1

DESCRIPTION GROUP / PAGE

X-Y-Z

X • X • X

X-OUT™ DAMAGED SCREW REMOVER D10C-33

Y • Y • Y

"Y" CONNECTORS L11-2
YOKE ENDS A20-13

Z • Z • Z

ZENKILL III - LONG SHOT WASP & HORNET KILLER C14-1
ZINC GALVANIZING AEROSOL C13-3
ZIP-IT™ ANCHORS A21-5
ZIRCONIUM
Blue Flash Flap Discs D10A-5
Mini D10A-5
Twist-Lock Mini Flap Discs D10A-6

ALPHABETICAL MASTER INDEX - FEBRUARY, 2013

DESCRIPTION	GROUP / PAGE	DESCRIPTION	GROUP / PAGE	DESCRIPTION	GROUP / PAGE

C - CHEMICALS & PAINT

C10	LUBRICANTS	C10
C11	ADHESIVES/SEALANTS	C11
C12	CLEANERS	C12
C13	PAINTS/COATINGS	C13
C14	SPECIALTY/ACCESSORIES	C14
C15	PROLINE	C15

C-CHEMICALS & PAINTS

C10-LUBRICANTS

3-In One Oil C10-7
5th Wheel Lubricant C10-14
Aerosol Chemical Locator Chart . .C10-1-2
Air Tool Lubricants C10-7-8
Anti-Seize C10-11-12
Blaster PB C10-6
Brake Lubricants C10-13
Bulk Chemicals C10-1
Chain & Gear Lubricants C10-5
Cuttiing Fluids C10-6-7
Dripless Oil C10-5
Dry Lubricant C10-4
Extreme Duty Silicone C10-4
Food Grade Lubricants C10-4-5
Freeze & Release C10-4
Fuel Cleaners & Treatment C10-15
Gear Shield C10-5
Extra Heavy Lube C10-8
Gel-Tac w/Teflon Extra C10-5
Graphited Lock Fluid C10-7
Greases, Aerosol C10-4, 6
Greases, Tube & Bulk C10-6-14
High-Temp Grease C10-8
Hydraulic Jack Oil C10-9
Moly Lubricants C10-5-6
Penetrants C10-3
Power Lube C10-6
Silicone Lubricants C10-3-4, 12
Smart Blend Trans Products C10-15
Snow Plow Oil C10-9
SPC No-Stick C10-8
Synthetic Lubricants C10-15
Tool Coolant C10-7
Trans Flush Kit C10-15
Two Cycle OIl C10-14
WD-40 . . . . . .C10-6
White Lithium Grease C10-4, 6-7
w/Teflon Aerosol C10-6

C11-ADHESIVES & SEALANTS

Bar's Leaks Tablets C11-16
Brake Anti-Squeak C11-15
Brake Quiet/Treatment C11-15
De-Squeak Conditioning Treatment .C11-15
Brushable Adhesive/Sealant C11-4
Contact Cement C11-3
Cyanoacrylate Adhesives C11-4
E-6000 High Strength Synthetic
Adhesive/Sealant C11-2
Engine Block Sealer C11-15
Epoxies C11-6, 10-11
Foam Sealant C11-2
Form-A-Gasket C11-3
Fuel Tank Repair Kit C11-16
Gorilla Glue C11-3
Headlight Lens Restoration Kit C11-16
Ignition Sealer C11-16
JB Kwik, JB Weld C11-10
Leak Lock C11-2
Liquid Electrical Tape C11-2
Loctite C11-5
Muffler Cement C11-16
Permatex, The "Right Stuff" C11-13
Radiator Stop-Leak C11-15-16
Rear View Mirror Adhesives C11-16
RTV Silicone Sealant C11-1, 13
Seal-All, Adhesive/Sealant C11-3
Seal-Up, Engine Block Sealer C11-15
Silicone Acrylic Latex Caulk C11-2
Spray-A-Gasket C11-4
Superbond 8000 Structural
Adhesive C11-9
Teflon Thread Sealants C11-8
Thread Lockers C11-7-8, 14
Thermosteel C11-10
Urethane Auto Glass Sealant C11-14
Vibra-Tite C11-4
Windshield Repair Kit C11-16

C12-CLEANERS

Air Jet C12-2
Air Fresheners C12-13
Aluminum Brightener C12-1
Aluminum Cleaner C12-1
Appearance Cleaners/DressingsC12-12-13
Barrier Cream C12-8
Battery Cleaner C12-12
Body Shop Cleaners C12-12-13
Brake Cleaners C12-10-11
Car Wash C12-12
Carburetor Cleaner C12-10-11
Carpet/Upholstery Cleaner C12-4, 13
Chewing Gum Remover C12-4
Citrus Based Cleaner C12-1
Coil C12-3
Conquest C12-1
Degreasers C12-3-4, 10-11
Disinfectant/Deoderizer C12-2, 13
Driveway Cleaner C12-5
Electrical/Electronic Cleaners C12-3-4
Fastball C12-1
Fuel System Cleaners C12-10-11
Gasket Remover C12-11
Gel Graffiti Remover C12-2
Gel Vandal Mark Remover C12-2
Glass Cleaner C12-2, 12
Graffiti/Spray Paint Remover Wipes .C12-5
Hand Cleaners C12-5-9
Dispensing Systems C12-5-9
Kapow Towels C12-5
Magnum Heavy Duty Industrial
Foam Degreaser C12-3
Parts Cleaner C12-4, 10-11
Pro-Tech Detail Chemicals C12-13
Purple-Pro Concentrate C12-1
Scrubs In-A-Bucket
(Waterless Hand Cleaner Towels) . .C12-5
Spray Nine C12-2
Stainless Steel Cleaner C12-1

C13-PAINTS & COATINGS

Belt Dressings C13-1
Complete List of Paints & Colors . . .C13-5
Galvanizing Compound C13-3
Marker Paint C13-2
Accessories C13-3
Paint Stripper C13-4
Primers C13-1
Seal-It – Multi-Purpose Sealant C13-1
Spray Paints
AlumiBlast C13-3
Cast Blast C13-4
Ceiling Tile C13-4
Chrome-Brite C13-4
Flexible Bumper & Trim C13-4
Fluorescent C13-3
Hardware C13-3
Hi-Tech Engine C13-4
MRO High Solids C13-2
Safe-Step, Anti-Slip Epoxy Coating C13-4
Stainless Steel C13-3
Stripe Inverted Tip C13-2
Touch-Up C13-4
Tractor C13-5
Storage Coating C13-1
Tamper Seal C13-1
Undercoat C13-1

C14-SPECIALTY & ACCESSORIES

Alkaline Drain Opener C14-7
Anti-Rust w/Water Pump Lube C14-3
Brake Fluid C14-3
Bulk Chemical Equipment C14-7-8
Coil Foam C14-6
Diesel Cleaners C14-2
Drain Geltabs & Opener C14-6
Fuel Injector Cleaners C14-2
Gas Line Anti-Freeze C14-2
Gas Stabilizer C14-2
Green Kleen Disinfectant C14-5
Honda Power Steering Sealer &
Conditioner C14-4
Insect Killer
Crawling C14-1
Flying C14-1
Repellent Wipes C14-1
Wasp & Hornet C14-1
Lime Remover C14-5
Liquid Live Bacteria/Enzyme C14-6
Lock De-Icer C14-2
Metered Air Freshener C14-4
Mildew & Stain Remover C14-5
Odor Control Products C14-4-6
Odorcide® 210 Concentrate
Dumpster & Chute C14-5
Original Formula C14-5
Oils C14-3
Perfect Soluttion Degreaser C14-4
Power Steering Fluid C14-4
Quick Action Control C14-6
Radiator Flush C14-3
Starting Fluid C14-2
Sunscreen Wipes C14-1
Urine Remover C14-5
Vomet Absorbent C14-6
Windshield De-Icer C14-1
Windshield Washer Solvent C14-2

C15-PROLINE

Adhesives & Sealants C15-2-3
Cleaners C15-3-5
Lubricants C15-1-2
Product Specifications &
Applications C15-6-14
Specialty C15-5

NOTES

CHEMICALS & AEROSOL CHEMICAL LOCATOR CHART

BULK CHEMICALS

- **Saves time and money.**
- **Available in 55 gal. drums.**
- **Best buy for volume users.**
- **The non-aerosol alternative.**

NAME	FUNCTION	DESCRIPTION	PART NO. DRUM SIZE	USDA	PH	DILUTION	APPEARANCE	FRAGRANCE
ABCR	Aluminum Brightener	Concentrated aluminum cleaner and brightener.	**211222G55**	N/A	1.0+.5	up to 1:40 water	clear	acidic
PURPLE-PRO™	Degreaser/ Cleaner	Highly concentrated butyl degreaser.	**211200G55**	A-4	13.0+.5	up to 1:15 water	purple	butyl
CAR CLEAN	Liquid Washes	Car & truck washing liquid for hand or automatic use.	**211206G55**	N/A	9.0+.5	2 to 5 oz. per gallon of water	light green	odorless
CONQUEST	D'Limonene Degreaser	Highly concentrated, emulsifies with water. Excellent degreaser, drain maintainer, spot and vandal mark remover. See label for other uses.	**211405G55**	C-1	N/A	up to 1:128 with water	orange	orange

ORDERING INFORMATION

Please follow the 4 steps below to avoid any problems with your customers and to help us process your orders:

1. Use a separate order form when ordering.
2. All drum shipments are drop shipped, FOB factory, Atlanta, GA.
3. Allow 2 to 4 weeks for delivery.
4. Ask customer if he will need a liftgate to get drum off the truck. Write on your order whether he will or will not need one. Liftgate charges usually average $100.00 and will be added to your customers invoice, in addition to freight charges.
5. Freight can be estimated at about $1.50 per gallon, min. charge approximately $75.00

AEROSOL CHEMICAL LOCATOR CHART

Part Number	Can Size Oz.	Net Wt. Oz.	Chemical	Catalog Section
LUBRICANTS				
13106	20	12.25	Heavy Duty Silicone	C10-4
13113	20	15	Maxi-Lube White Grease	C10-4
13129	20	14	Gear & Chain Lube	C10-5
13133	16	11	Slik N' Kleen Dry Lube	C10-4
13144	8	7.25	Dielectric Silicone Grease	C10-12
211104	16	12	*Blaster* Air Tool Conditioner	C10-8
211108	20	15	Special FX Penetrant	C10-3
211226	20	18	Tool Coolant	C10-7
211291	20	11	*SPC* No-Stick	C10-8
211306	20	13	Hi-Pressure Moly Lube	C10-6
211308	16	12	Industrial Food Grade Chain Lube	C10-5
211309	16	9.25	Food Grade Silicone	C10-4
211313	20	14.5	Heavy Duty Red Grease	C10-4
211333	20	14.75	Multi-Lube, 5 In 1	C10-3
211336	16	15	Omni L/P Penetrant Lubricant	C10-9
211343	6	3.5	Lock-Ease	C10-7
211413	16	13	Anti-Seize	C10-11
211458	20	11	"Stay" No Run Silicone Gel	C10-3
211460	20	15	Gear-Kote	C10-5
211461	20	15	Freewheel	C10-14
211495	20	18	Smart Blend Trans Cooler Flush Kit	C10-15
211518	12	9.3	GDL Garage Door Lube	C10-8
211524	16	12	*PB Blaster* Penetrating Oil	C10-6
211549	16	12.5	NEVER•SEEZ® Anti-Seize Compound	C10-12
211552	16	11	CRC 3-36	C10-3
211556	12	11	WD-40® Smart Straw	C10-6
211571	12	9	CRC® Power Lube	C10-6
211573	16	10	CRC® White Lithium Grease with Teflon	C10-6
211574	GAL.	GAL.	Industrial CRC 3-36®	C10-3
211582	16	11	Ultra Screwloose®	C10-3
211584	20	16	Champion Premium Lubricant w/PTFE Teflon®	C10-3
211585	16	10	SP-400™	C10-8
211587	16	10	Industrial Food Grade Silicone	C10-4
211589	12	9	Knock'er Loose®	
			Technican Grade Lubricant/Penetrant	C10-9
213162	20	13	Gel-Tac Extra	C10-5
711746	16	13.52	Freeze & Release	C10-4
711759	16	14	Extra Heavy Gear Shield	C10-5
711760	16	12	Chain & Cable Fluid	C10-5
711766	16	11	Lubriplate Spray Lube "A"	C10-6
811244	20	16.75	Metal-Ice Cutting Foam	C10-7
ADHESIVES & SEALANTS				
13115	20	6	Ignition Sealer	C11-16

Part Number	Can Size Oz.	Net Wt. Oz.	Chemical	Catalog Section
ADHESIVES & SEALANTS (cont'd)				
13143	12	9	Disc Brake Quiet 127MA	C11-15
211299	16	11.25	De-Squeak Conditioning Treatment	C11-15
211323	20	15.75	Tack & Bond Gasket Adhesive	C11-15
211417	24	15.75	Super Bond Trim Adhesive	C11-15
211590	18	16.75	Super 77 Adhesive	C11-3
810298	8	6.7	McKanica R.T.V. Hi-Temp Red Silicone	C11-12
810300	8	6.7	McKanica R.T.V. Black Silicone	C11-12
810302	8	6.7	McKanica R.T.V. Clear Silicone	C11-12
810304	8	6.7	McKanica R.T.V. Blue Silicone	C11-12
810310	8	6.7	McKanica R.T.V. Gray Silicone	C11-12
810312	8	6.7	McKanica R.T.V. Hi-Temp Copper Silicone	C11-12
810314	8	6.7	McKanica R.T.V. White Silicone	C11-12
811225	16	12	Handi•Foam Sealant	C11-2
812262	12	10	High Tack No. 99MA	C11-4
812277	12	11	Copper Spray-A-Gasket No. 101MA	C11-4
812349	8	7.25	Blue R.T.V. Silicone	C11-1
812358	6	4	Permatex® The "Right Stuff"	C11-13
812359	8	7.25	Red Hi-Temp R.T.V. Silicone	C11-1
812369	8	7.25	Black R.T.V. Silicone	C11-1
812377	8	7.25	Clear R.T.V. Silicone	C11-1
812379	8	7.25	Aluminum R.T.V. Silicone	C11-1
812380	10	8.75	Ultra Black R.T.V. Silicone	C11-12
812389	8	7.25	White R.T.V. Silicone	C11-1
812399	8	7.25	School Bus Yellow R.T.V. Silicone	C11-1
CLEANERS				
13111	20	15	De-Solv-It Degreaser	C12-3, 10
13116	20	15	Brake Clean	C12-10
13125	20	20	Electric Motor Degreaser	C12-3
13126	20	20	H.D. Contact Cleaner	C12-3
13139	20	14	Battery Cleaner & Protector	C12-12
13145	20	19	Gasket Remover	C12-11
211103	20	19	Gel Graffiti Remover	C12-2
211125	16	10	CRC Air Jet Duster	C12-2
211209	16	10.25	Satin Formula PRO-TECH	
			All Purpose Detail Dressing	C12-13
211210	16	14.5	Hard Shell Finish PRO-TECH Wax and Shine	C12-13
211301	20	19	Glass Clear	C12-2, 12
211330	20	20	Non-Flammable Brake Cleaner	
			& Parts Degreaser	C12-10
211334	20	18.75	Velour & Carpet Cleaner	C12-4, 13
211335	16	14.75	Vinyl, Leather & Plastic	
			Cleaner & Protector	C12-13
211337	20	15.75	Tire Clean & Shine	C12-13

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AEROSOL CHEMICAL LOCATOR CHART (cont'd)

Part Number	Can Size Oz.	Net Wt. Oz.	Chemical	Catalog Section
CLEANERS (cont'd)				
211339	20	15	Fresh N' Kool A/C Odor Eliminator	C12-13
211340	20	14.75	Power Pulsating Carb-Solv	C12-10
211341	20	14.75	Hi-Delivery Carb-Solv	C12-10
211342	20	18	Stainless Cleaner/Polish	C12-1
211415	20	14.75	Air Intake Cleaner	C12-10
211450	20	15	Sanitize Disinfectant	C12-2
211451	20	15	Citra-Clean Cleaner/Degreaser	C12-1
211452	20	18	Fast Flushing Citra Clean II	C12-1
211453	20	12	Gloss Formula PRO-TECH	
			All Purpose Detail Dressing	C12-13
211464	20	18	Fast Flush Coil & Fin Cleaner	C12-3
211466	12	6.75	Chewing Gum Remover	C12-4
211467	20	14.75	Gel Vandal Mark Remover	C12-2
211551	20	19	CRC Quick Clean	C12-4
211553	16	11	CRC - QD™ Electronic Cleaner	C12-4
211554	20	14.5	Permatex® Non-Chlorinated	
			Brake/Parts Cleaner	C12-11
211555	20	16	Cleaner Degreaser No. 377	C12-4
211558	16	13	Berkebile 2 + 2 Gum Cutter	C12-11
211564	20	16	GUNK® Engine Degreaser	C12-11
211565	20	18	Glass Cleaner	C12-12
211566	20	19	Permatex® Brake & Parts Cleaner	C12-11
211567	12	11	CRC® Battery Cleaner	C12-12
211568	12	7.5	CRC® Battery Terminal Protector	C12-12
211570	20	19	CRC® Heavy Duty Degreaser	C12-4
211576	18	14	Non-Chlorinated Brake Parts Cleaner	C12-11
211577	20	19	Non-Flammable Brake Parts Cleaner	C12-11
211580	20	19	Electric Parts Cleaner	C12-4
211586	6	5.75	Battery Cleaner	C12-12
211588	16	11	Mass Air Flow Sensor Cleaner	C12-11
211627	20	18	Bio Foam	C12-3
211628	20	16	Magnum	C12-3
211629	20	19	Crystal Clear	C12-2, 12
213116	20	14.39	Low VOC Brake & Parts Cleaner	C12-10
COATINGS				
12483	16	12	Hi-Tech Engine Coating - Ford Blue	C13-4
12484	16	12	Hi-Tech Engine Coating - Chevy Orange	C13-4
12494	16	10.9	Fluorescent Paints - Orange	C13-3
12495	16	12.1	Chrome Paint	C13-4
13110	20	18	Power Grip Belt Dressing	C13-1
44448, 59	20	15	Seal-It – Multi-Purpose Sealant	C13-1
124101, 02, 04	16	12	Safe-Step, Non-Skid, Anti-Slip Epoxy Coating	C13-4
124107	16	11.9	Alumi-Blast Paint	C13-3
124108	16	11.7	Cast Blast Paint	C13-4
124109	20	16	MRO High Solids Flat White Paint	C13-2
124110	20	16	MRO High Solids Light Machinery Gray ANSI 70 Paint	C13-2
124111	16	12.3	Stainless Steel Paint	C13-3
124112	20	16	MRO High Solids Aluminum Paint	C13-2
124113	20	16	MRO High Solids Gloss White Paint	C13-2
124114	20	16	MRO OSHA Safety Yellow Paint	C13-2

Part Number	Can Size Oz.	Net Wt. Oz.	Chemical	Catalog Section
COATINGS (cont'd)				
124115	20	16	MRO OSHA Safety Orange Paint	C13-2
124116	20	16	MRO OSHA Safety Red Paint	C13-2
124117	20	16	MRO OSHA Safety Green Paint	C13-2
124118	20	16	MRO OSHA Safety Blue Paint	C13-2
124119	20	16	MRO High Solids Gloss Black Paint	C13-2
124120	20	19	Paint Stripper	C13-4
124127-129	20	17.7	Traffic Marker Paints	C13-2
124131-132	20	17.7	Traffic Marker Paints	C13-2
124135	16	12.75	Flexible Paints	C13-4
124146	20	16	MRO High Solids Stainless Steel Paint	C13-2
124147	20	16	MRO High Solids Gray ANSI 61 Paint	C13-2
124148	20	16	MRO High Solids Gray ANSI 49 Paint	C13-2
124149-155,	16	13.5	Stripe Marker Paints	C13-2
158				
124157	20	16	MRO High Solids Flat Black Paint	C13-2
124159	20	16	MRO High Solids New Cat Yellow Paint	C13-2
124160	20	16	MRO High Solids Ryder Yellow Paint	C13-2
124161	20	16	MRO High Solids Cummins Beige Paint	C13-2
124162-163	16	13.5	Golf Course Marker Paints	C13-2
124164-165	20	18	Athletic Field Marker Paints	C13-2
124166	20	16	MRO High Solids Cascade Green Paint	C13-2
124167	20	16	MRO High Solids Omaha Orange Paint	C13-2
124168	20	16	MRO High Solids Red Iron Oxide Primer Paint	C13-2
124169	20	16	MRO High Solids Light Gray Primer Paint	C13-2
124174	20	16	MRO High Solids Gloss Tan Paint	C13-2
124178	20	16	MRO High Solids Dark Green Paint	C13-2
124181	20	16	Athletic Field Marker Paints	C13-2
124182	20	16	MRO High Solids Light Blue Paint	C13-2
124183	20	16	MRO High Solids Deep Blue Paint	C13-2
124184-212	16	10	Hardware Paints	C13-3
124225	20	16	MRO High Solids School Bus Yellow Paint	C13-2
124226	20	16	Ceiling Paint - New White	C13-4
211303	16	13	Zinc Galvanizing Compound	C13-3
211304	16	12	Bright Zinc Galvanizing Compound	C13-3
211317	24	17.75	Rubber Undercoating - Gravel Guard II	C13-1
211572	16	10	CRC® Belt Dressing	C13-1
211585	16	10	SP-400™	C13-1
812356	16	10.25	"Extend" Rust Destroying Sandable Primer	C13-1
813283	20	16	Permatex® HD Rubberized Undercoating	C13-1
MISCELLANEOUS				
13117	16	11	Starting Fluid	C14-2
44420	20	17	Assault II - Crawling & Flying Insect Killer	C14-1
211121-124	8	7	Metered Air Freshener Spray	C14-4
211148-149	8	7	Metered Air Freshener Spray	C14-4
211310	20	14	Wasp & Hornet Killer Plus	C14-1
211404	16	12	De-Icer	C14-1
211408	8	7	Citrus Magic	C14-4
211523	16	12	Ice-Off® Spray De-Icer	C14-2
211635	20	13	Zenkill III - Long Shot Wasp & Hornet Killer	C14-1
211637	20	14	Back Flip - Crawling Insect Killer	C14-1

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SPECIAL ION-CHARGED FX FOAMING RUST PENETRANT

Super Foaming RUST PENETRANT
Outperforms All Other Penetrating Oils

Special ion-charged formula
Guarantees these benefits . . .

- Penetrates Immediately . . . . frees rusted parts in seconds
- Clings To Any Surface . . . . long lasting, super thick foam
- Bonds To Rust . . . . . exclusive ion-charged formula
- Prevents Future Corrosion . . multi-purpose Moly additives
- Saves Special Fasteners . . . . . remove without damage
- Contains Teflon® . . . . . long lasting, residual lubrication

RUST PENETRATING OIL

Contains Teflon®*

NEW & Improved

TOP TEN SELLER

Part No. 211108 (24)
15 oz. net wt. (425g)

ULTRA SCREWLOOSE® SUPER PENETRANT

Penetrates through tough rust, gum and corrosion on contact. Loosens seized-up parts.

Part No. 211582 (12)
11 oz. net wt. (CRC05330)

Industrial CRC 3-36®

Petroleum-based organic compound that penetrates through rust and scale and seals out harmful moisture with a micro-thin continuous film that prevents the return of corrosion.

- Lubricates and protects all metal surfaces without leaving a sticky residue.
- Penetrates, loosening frozen parts.
- Cleans light soils from surfaces, leaving a corrosion-resistant barrier.
- Authorized by USDA for federally inspected meat and poultry plants.
- Equipped with the 360° spray valve for added convenience.

NOT FOR USE ON ENERGIZED EQUIPMENT

Patented MSD[L]™ Label!

Part No. 211552 (12)
CRC No. 03005
11oz. net wt. (312g)
(Contents 16 fluid oz.)

Part No. 211574 4
CRC No. 03006
1 gallon net wt. (3.78L)

MULTI-LUBE 5 IN 1

Outperforms CRC Power Lube, WD-40 and Permatex 5 Way.
High Powered Multi-Purpose Lubricant:

Hundreds of applications for the shop, auto, home or farm.

- Non-flammable formula - safe for use on energized equipment.
- Lubricates all moving parts.
- Penetrates through rust and corrosion.
- Disperses moisture; dries wires and contacts.
- Prevents corrosion; seals out moisture.
- Cleans and degreases parts and assemblies.

TOP TEN SELLER

— NEW — Non-flammable formula

Part No. 211333 (12)
14.75 oz. net wt. (418g)

"STAY" NO-RUN SILICONE

It stays where you spray, even on vertical surfaces.

Conveyors, slides, rails, rollers, servo mechanisms, machinery, bearings, mold release agents.

- Gel-like formula *contains 3 times more silicone* than conventional brands.
- Teflon® fortified for EP (extreme pressure) applications passes 1200 lb. PSI falex test.
- High temperature range (-40°F to 450°F).
- Use on all surfaces, metallic and non-metallic.
- Reduces friction and galling, even on metal to metal surfaces.
- Clear, non-staining, odorless and moisture resistant.

Part No. 211458 (12)
11 oz. net wt. (312g)

CHAMPION PREMIUM LUBRICANT

INTRODUCING OUR PREMIUM ADVANCED FORMULA 100% SYNTHETIC LUBRICANT WITH PTFE TEFLON

Champion has been specially formulated to match the performance characteristics of Drummond American's leading aerosol (Engage).

- Incredible capillary action - spray it on something rusted and it will work its way through the entire part.
- Will not attract dust or dirt - excellent for lubricating and providing long term protection of precision equipment and machinery.
- Resists other chemicals - use as lubricant on farm equipment or in golf course and grounds maintenance.
- It will stand up to other chemicals and provide long term protection.
- Lubricates and displaces moisture - use as a fantastic cable lubricant, spray down a spool of wire rope and it will coat each strand as well as displacing any moisture trapped in the core.
- Champion is guaranteed to outperform any other lubricant you have ever used.

Part No. 211584 (12)
16 oz. net wt. (1lb.) (453g.)

Superior Lubrication – Extended Protection Beats Rust, Displaces Moisture and Keeps on Working Long Lasting Applications = Time and Money Savings Safe on Precision Equipment and Machinery

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LUBRICANTS

FREEZE & RELEASE

No need to go get your torch out!

Releases rusted and corroded nuts, bolts and parts with an extremely quick penetration time. By immediate freezing it's target and dropping the temperature to near -45°F. It cracks the layers of rust and corrosion allowing the lubricants to penetrate thoroughly. In as quick as 1 to 2 minutes you can be dismantling your parts so you can get the job done. No need to get your torch out and start burning stuff to try to get a bolt or nut off.

- **Shock freezes to (-45°F).**
- **Quickly releases seized and corroded parts.**
- **Parts remain lubricated and protected from corrosion.**
- **Made from mineral oils, silicone free.**

Part No. 711746 6
13.52 oz. net wt. (400ml)

HEAVY DUTY SILICONE LUBE

Long lasting lubrication and protection.

Lubricate locks, hinges, lids, cables, moldings, tracks and guides.

TOP TEN SELLER

- **Stops friction, squeaks and sticking.**
- **Won't attract dust or dirt.**
- **Protects and renews rubber mountings, bushings, weatherstripping and seals.**
- **Wide effective temperature range (-40°F to 400°F).**
- **Excellent release agent and lubricant for all surfaces.**
- **Color: Clear.**

Part No. 13106 (24)
12.25 oz. net wt. (347g)

SLIK N' KLEEN DRY LUBE with Teflon®*

The slickest lubricant made!

Hinges, locks, slides, tracks, gears, cables, snaps, fans, power tools, appliances, air conditioners, zippers, springs, etc.

- **Super Slippery - contains PTFE (Teflon®)**
- **Replaces ordinary, "Wet" Petroleum Base Lubricants. Non-oily, non-staining, will not attract dust or dirt, no residue, leaves a perfectly dry, colorless, solid lubrication film.**
- **WITHSTANDS EXTREME TEMPERATURES - from -40° F to + 500°F.**
- **The only acceptable lubricant for electronics, aero-space equipment, computers, instruments, delicate machinery electric motors, video equipment.**
- **An excellent mold release agent.**
- **Does not contain silicone.**

Part No. 13133 6
11 oz. net wt. (311g)

*Polytetrofluoroethylene
®E.I. Dupont Co.

FOOD GRADE SILICONE LUBE

For use in food processing and handling.

Slides, guide rails, knives, slicers, saws, grinders, dough mixers, machine guards, heat sealing equipment, textile machinery.

- **USDA accepted, conforms to FDA requirements.**
- **Non-toxic, non-staining, non-corrosive.**
- **Prevents sticking of plastic parts, rubber, metal, etc.**
- **Lubricates, seals, protects.**
- **Does not attract dust or dirt.**

Part No. 211309 (12)
9.25 oz. net wt.
(274g)

MAXI - LUBE
Pure White Lithium Grease with Teflon®*

Special formula provides long lasting lubrication when exposed to water, moisture and low temperatures.

Hinges, latches, cables, locks, linkages, shackles, doorhandles, cold storage and freezer entrances, deck lids, striker plates, etc.

- **Waterproof - won't wash off - excellent for exposed parts and outdoor use.**
- **Will not stiffen at low temperatures - stays soft and buttery, even at - 50°F.**
- **Powerful rust inhibiting and friction reducing formula - made for all metal to metal applications.**

TOP TEN SELLER

Part No. 13113 (12)
15 oz. net wt. (425g)

*Polytetrofluoroethylene
®E.I. Dupont Co.

INDUSTRIAL FOOD GRADE SILICONE

Multi-purpose silicone spray lubricant.

For food processing and handling applications. It forms a colorless, odorless, non-staining film that lubricates and protects in most metal to non-metal applications. Silicone film eliminates binding and sticking, while protecting most surfaces. In addition, it may be used as a release agent.

- **NSF H1 registered for use in meat and poultry plants.**
- **Harmless to most rubbers and plastics.**
- **Wide effective temperature range (-40°F to 400°F).**
- **Excellent release agent and lubricant for all surfaces.**
- **Meets FDA regulation CFR 21-178.3570 for incidental food contact.**

Part No. 211587 (12)
CRC No. 03040
10 oz. net wt. (284g)

Patented MSD[L]™ Label!

RED GREASE

High temp, extreme pressure, red grease in an aerosol spray can.

Sprays like a liquid, penetrates deep into cracks and crevices, sets up to a full-bodied heavy-duty grease in seconds.

- **Hold together under extreme pressures and high shock loads. Superior quality petroleum base, aluminum complex grease.**
- **Adheres to hot surfaces - will not break down, harden or separate under heat, even up to +450°F.**
- **100% Waterproof - will not wash or steam off.**
- **Outperforms all lithium greases.**

TOP TEN SELLER

Part No. 211313 (12)
14.5 oz. net wt. (411g)

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GEL-TAC EXTRA with Teflon™

GEL-TAC EXTRA is a penetrating gel lubricant. It is transparent, high temperature and highly adhesive. Its unique combination of natural and synthetic lubrication agents coupled with a high molecular weight polymer (PTFE) makes Gel-Tac Extra a superior lubricating product.

- Sprays on thin like a penetrating oil. Reaches points that other greases can't touch.
- Quickly sets up to a clear tacky gel. Resists being thrown off, vibration, and being washed off.
- Teflon prevents sticking and freezing of rubber and metal. Reduces wear and keeps parts moving smoothly & quietly.
- Leaves a protective coating. Prevents rust, corrosion, and resists steam and salt spray.
- Extreme temperature capabilities; -30° F to over +600°F.

Applications:
Bearings • Cams • Conveyor Chains • Dollies • Locks & Hinges • Manifold Heat Valves • Nuts & Bolts • Open Gears • Rollers • Slides

Part No. 213162 (12)
13 oz. net wt. (368g)

CHAIN AND CABLE FLUID

Thin film penetrating lubricant.

- Lubricates, penetrates and cleans.
- Maintains a moist lasting film.
- Reduces friction.
- Prevents rust and corrosion
- Does not pick up dust or dirt.

Part No. 711760 6
12 oz. net wt. (340g)

EXTRA HEAVY GEAR SHIELD

Extra thick film penetrating lubricant.

- Especially designed for exposed open gears.
- A superior 5th wheel lubricant.
- Lasts longer than conventional lubricants even at high temperatures - up to 370°F.
- Waterproof - will not wash or weather out.

Part No. 711759
14 oz. net wt.

MOLY GEAR AND CHAIN LUBE

Superior medium film penetrant, lubricant and protector.

- 50% more Moly (molybdenum disulfide) for superior lubrication.
- Specially formulated with New Hi-EP Grease.
- High degree of "tack" creates excellent adhesion as well as superior "film rupture" healing characteristics.
- Adheres to the gear, chain or cable without leaving the metal bare after each release.
- Highly water resistant. Prevents rust and oxidation.
- **Test Results**
  Superior Corrosion - rust protection:
  5% salt spray booth ASTM D-117
  Passes 3000+ hours - no failure.
  Superior lubrication - anti wear properties:
  Falex load & wear test ASTM D-3233
  Passes maximum load of 4500 lbs. - no failure.
  Torque reading 60.

Part No. 13129 (12)
14 oz. net wt. (396g)

GEAR-KOTE

Heavy load lubricant, moly fortified. Outperforms typical heavy duty greases and lubricants

Prevents wear, fretting and corrosion on heavy load gears and transportation equipment.

- High moly content provides outstanding EP (extreme pressure) lubrication.
- NEW, "Thin Film" characteristics require less lubricant - reduces waste.
- Extreme temperature protection from -40F to +700°F.
- Passes 1000 hours ASTM D-117 5% salt spray test.
- Will not wash out or attract dirt and grime.

Used on: Pinions, wire rope, springs, chains, guide pins, open gears, slides, forklifts, elevating screws, slide racks, tracks.

Part No. 211460 (12)
15 oz. net wt. (425g)

DRIPLESS OIL

RUNS IN - BUT WON'T RUN OUT

- Flows easily into any opening, then converts to a full bodied, dripless long wearing film.
- Won't drip or run at over +200°F, won't gum or harden at -20°F.
- Greater protection and longer performance than ordinarily provided by light oils. Ideal for rust proofing.
- Apply like other oils, allow to penetrate a few minutes and thicken, then wipe off surplus.

Part No. 211287
3.5 oz. squeeze bottle

INDUSTRIAL FOOD GRADE CHAIN LUBE

Blend of synthetic lubricants and mineral oil to keep roller drive and conveyor chains lubricated. Penetrates, lubricates and protects moving parts by reducing friction and wear.

- NSF H1 rated for incidental food contact.
- Transparent Water-White Liquid appearance with no odor.
- Working temperature 8 to 325°F.
- >370°F flash point non-drying film.

Patented MSD[L]™ Label!

Part No. 211308 (12)
CRC No. 03055
12 oz. net wt. (340g)

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LUBRICANTS

LUBRIPLATE SPRAY LUBE "A"
Multi-Purpose White Lithium Grease

Excellent for latches, locks, hinges, battery terminals and other hardware.

- A multi-purpose, white lithium-based lubricant of medium density.
- Sprays like a fluid, congeals to a grease.
- Unaffected by moisture, most chemicals and acids, and will not run, wash off or dry up.
- Excellent where no grease fittings exist and where tolerance are close and where longer lasting lubrication is desirable.
- Safely used within temperature ranges of from -10°F to 275°F.
- Hundreds of possible uses.

Part No. 711766 (12)
11 oz. net wt.

PB BLASTER PENETRATING OIL

Super Concentrated PB Penetrating Catalyst

- Powerful, concentrated penetrant frees rusted and frozen parts.
- Releases surface tension that causes parts to stick.
- Lubricates to protect against future rust and corrosion.
- Displaces moisture.

Part No. 211524 (12)
12 oz. net wt. (339g)

MOLY DRY FILM LUBRICANT

Use as a prelubrication coating on high temperature mechanisms, assembly lubricant, press fit lube, and other applications involving metal to metal high pressure points. Excellent for casting molds, oven hardware, cams, followers, rollers, chain cable, open gears, threaded fasteners, slides, locks, latches, pins, bearings, press fits, and as a break-in lube.

- Lubricates in very high temperatures, to 750°F.
- Load capacity to 140,000 psi.
- Contains no oil, grease, or graphite.
- Dry molybdenum disulfide fills metal pores, "valleys", scratches & other recesses in the metal surface to create tight adhesion.
- Will not attract dust or dirt.

Part No. 211306 (12)
13 oz. net wt. (368g)

CUT-EASE STICK LUBRICANT

Use on grinding wheels, bandsaw blades, saw blades, end mills, and drills.

- Cut-Ease is a blended wax stick used where circulating lubricants are not used.
- Non-staining.
- No solvent waste disposal.
- Stops binding.
- Provides smoother cuts.
- Reduces loading.
- Extends wheel life.
- Eliminates heat build-up.
- Used on aluminum, ferrous and non-ferrous metals, plastic and more.
- Push button tube.

Part No. 211516
1 lb.

CRC® WHITE LITHIUM GREASE
with Teflon®

A high quality multi-purpose grease for automotive, shop, home or farm.

- Contains Teflon for extra lubricity.
- Fights corrosion.
- Any weather or temperature.
- Ideal for metal to metal lubrication.
- Protects machines, tools, and shop equipment.

NOT FOR USE ON ENERGIZED EQUIPMENT.

Part No. 211573 (12)
CRC No. 05037
10 oz. net wt. (284g)

CRC® POWER LUBE

Multi-purpose lubricant.

- Plastic safe...will not damage modern plastics like ABS, NORYL and LEXAN that are found in cars, work shops, plants, offices and farms.
- Odor free...will not offend customers when sprayed inside vehicles.
- Contains no CFC's.
- Spray in any position valve.

Part No. 211571 (12)
CRC No. 05005
9 oz. net wt. (255g)

WD-40® SMART STRAW

The can that has a 1,000 uses almost anywhere now has a flip up straw connected.

- Stops squeaks.
- Cleans & protects.
- Loosens rusted parts & frees sticky mechanisms.
- Drives out moisture.
- Non-conductive and can be used to dry out electrical equipment.
- Never lose the straw again.

Part No. 211556 (12)
WD No. 110078
11 oz. net wt. (311g)

TAPMATIC CUTTING FLUID

For tapping, drilling, reaming, threading, finishing and boring.

- Available in one formulation, for all metals including aluminum.
- Penetrates to the cutting edge of the tool instantaneously.
- Produces finer chips and superior surface finish, without galling or friction.
- Built-in spout tops on both size cans.
- Contains no ozone depleting chemicals.

PART NUMBER	CONTAINER SIZE
811240	4 oz. can
811241	16 oz. can

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TOOL COOLANT

A fast acting coolant that extends the life of drill bits, taps, mills and reamers.

- Quickly eliminates heat at it's source.
- Insures clean and smooth cuts.
- Does not burn and decompose.
- Non-flammable.
- No sticky residue.

Part No. 211226 12
18 oz. (1 lb. 2 oz.) net wt. (510g)

METAL-ICE CUTTING FOAM

Excellent when tapping, reaming, drilling, threading.

- Foaming action stays on cutting area - Foam runs up drills keeping them cool while continuing to feed cutting area. Eliminates dripping, messy oil and cleanup.
- Dramatically cuts heat created by drilling, reaming & tapping.
- Increases tool life up to10 times longer than ordinary oils.
- Reduces thermal expansion creating more accurate hole sizes.
- Not recommended for aluminum.

Part No. 811244 (12)
16.75 oz. net wt. (474g)

WHITE LITHIUM GREASE

Recommended for gear shift mechanisms, chain and sprockets, water pumps, steering components, hinges, latches, battery terminals, distributors, cam shafts, seat racks, ash tray guides, garage door channels, speedometer cables, motor assembly, tools, and machinery.

- Available in sizes to fit all shop needs.
- Keeps surfaces friction free.
- Non-toxic, non-flammable, non-staining.
- Temperature range, - 30°F to +170°F.
- Withstands moisture, protects against rust.

PART NUMBER	NET WEIGHT	CONTAINER
711756	1-3/4 oz.	tube
211131	10 oz.	tube
211132	16 oz.	tub

Excellent for most metal to metal contact points!

LUBRIPLATE 1444

Heavy Duty Tacky Grease

Thick, tacky grease, specially formulated for use on heavy duty construction, quarry and mining equipment.

- Creates a tight seal to protect the working parts of equipment.
- Excellent for slow to moderate speed bearings, bushings & chains subjected to heat, steam and water.
- Outstanding resistance to washout from water, caustic washdown solutions,coolants, and cutting fluids used in machining operations.

Grease type: Aluminum complex / Polymer
NLGI Grade: 2
Worked Penetration @ 77°F: 265/295
ASTM Drop Point: 500°F
Approx. cold test: 10°F
Anti-wear / extreme pressure rated

Water resistant
Rust & oxidation and lubricity additives.

Part No. 711775 10
14.5 oz. net wt. cartridge

MULTI-PURPOSE LITHIUM GREASE

Recommended for chassis, universal joints and general purpose use.

- Long lasting, hard working formula.
- Delivers high performance in a wide range of heavy-duty applications.
- Best for lubricating rolling parts.

Part No. 211455 10
14 oz. net wt. cartridge

3-IN-ONE MULTI-PURPOSE OIL

- Specially formulated lubricating oils.
- Lubricates, cleans & prevents rust.
- Easy-to-use drip spout provides exact application, no overspray or splatter.

5" telescoping spout

5" Telescoping Spout,
Part No. 211545
5 fl. oz.

LOCK EASE Graphited Lock Fluid

- Seals out moisture, protects against freeze-up.
- Prevents sticking, guards against rust & corrosion
- Graphite formula will not gum up.
- Leaves a penetrating, protective coating.

Part No. 211343
3.5 oz. net wt. Aerosol

LUBRIPLATE AIR TOOL LUBRICANT

Recommended for rotor and reciprocating types of air tools. Apply daily, or use an automatic lubricator in air system.

- Prevents build-up of moisture, contaminants, sludge & varnish when used on a regular basis.

Part No. 711768
32 fl. oz.

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LUBRICANTS

LUBRIPLATE FGL-1

Food Machinery Lubricant

USDA approved H-1 lubricant for use on equipment as a lubricant or anti-rust film in locations which there is exposure of the lubricated part to edible products.

- **Multi-functional for high or low speed, high or low temperatures and a wide range of loads.**
- **Extremely resistant to the effects of water, steam and corrosive acids.**

Grease type: Aluminum complex
NLGI Grade: 1
Worked Penetration @ 77°F: 310/340
ASTM Drop Point: 460°F
Approx. cold test: 0°F
Anti-wear rated
Water resistant
Rust & oxidation and lubricity additives.

Part No. 711776 10
14.5 oz. net wt. cartridge

BLASTER GDL GARAGE DOOR LUBE

Powerful Garage Door Lube - High Performance Formula

- **Use on commercial garage doors, fleet & tractor trailer door service, overhead doors, hinges, cables, chains, springs, bearings, bushings, door tracks, worm gears.**
- **Prevents rust, corrosion, squeaking, and sticking problems. Lubricates and protects to extend the life of equipment.**
- **Leaves a dry, tack-free film that will not accumulate dust and dirt. Non-staining long lasting formula, will not evaporate.**
- **NO ozone depleting chemicals.**

It Works Where Others Fail Guaranteed!

• Lubricates • Penetrates • Conditions • Coats •

Part No. 211518 (12)
9.3 oz. net wt. spray can

SPC NO-STICK

Special purpose coating.

Use on snow plows, dozers, graders, grass cutters, pulleys, conveyors, sliding troughs, windows, tables, etc.

- **Keeps snow and ice from piling up on snow shovels, plow blades and wings.**
- **Plows work better with lessened drag and weight.**
- **Reduce dirt and grass sticking on blades of grass cutters, graders, dozers and road machinery.**
- **Formulated with viscous silicones to provide superior lubrication with excellent release properties.**
- **Waterproof, colorless and non-staining.**

Part No. 211291 (12)
11 oz. net wt. (312g)

SP-400™

Corrosion inhibitor.

Long-term indoor/outdoor corrosion inhibitor for machined surfaces and assemblies subjected to long periods of storage or adverse shipping conditions. SP-400™ is an easily removable film that will provide protection of all equipment subject to heat, humidity, chemicals or severely corrosive atmospheres.

- **Firm, waxy film is highly resistant to humidity and salt spray, and never becomes brittle.**
- **Long term protection (up to 2 years outdoors) for all metals during shipment or extended storage.**
- **Waxy film seals out moisture completely.**

Patented MSD[L]™ Label!

Part No. 211585 (12)
CRC No. 03282
10 oz. net wt. (284g)

BLASTER AIR TOOL CONDITIONER

REJUVENATES "DEAD" AIR TOOLS

- **Dissolves sludge, varnish and calcium.**
- **Restores original RPM's.**
- **Reduces maintenance time.**
- **Extends air tool life.**

Part No. 211104 (12)
12 oz. net wt. Aerosol

LUBRIPLATE GEAR SHIELD EXTRA HEAVY

Designed for low speed open gears.

- **Tacky.**
- **Temperature range 10°F to 275°F.**

Grease type: Lithium
NLGI No.: 3
Worked penetration @ 77°F: 235/260
ASTM Drop Point: 370°F /188°C
Approx. cold test: 0°F/-18°C
Mineral oil viscosity
SUS @ 210°F: 200+
cSt @ 100°C: 40+

Part No. 711767 (10)
10 oz. net wt. caulk

LUBRIPLATE HIGH-TEMP GREASE

Excellent for asphalt manufacturing and paving.

- **This non-melt type grease is workable from approximately 40°F to 450°F and up to 550°F for short intervals.**

Type of thickener: Inorganic gelling agent
Worked penetration @ 77°F: 265/295
ASTM Drop Point: Non-melt type (500+)
Mineral oil viscosity
SUS @ 100°F: 2600
SUS @ 210°F: 155
cSt @ 40°C: 497
cSt @ 100°C: 32
Flash point: 580°F/304°C
Color: Beige

Part No. 711773 (10)
14.5 oz. net wt. cartridge

VALVE / O-RING LUBE and SEAL

Part No. 711745
5.3 oz. net wt. tube

- **Used for general o-ring and valve lubrication.**
- **Goes on as a heavy translucent white coating paste with a high dielectric strength to block out moisture and oxidation.**
- **Used on sanitary, butterfly, gate, ball and automated valves. Also anywhere rubber or plastic o-rings are used for pump packing or vacuum or pressure systems.**
- **Temp. range -40°F to 400°F.**
- **Authorization-NSF5&61 FDA21 CFR175 300**

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AGGRESSIVE LUBRICANT / PENETRANT

- Cuts through problem areas within seconds.
- Blast through rust, grease and grime.
- Lubricates and quickly frees frozen nuts/bolts.
- Dries wet electrical and ignition systems.
- Non-flammable, Non-conductive offers 5,000 volt dielectric strength per ASTMD1816.
- Cleans and removes rust.
- Reduces friction to prevent wear.
- Lubricant provides lasting protection.
- *May be sprayed in an inverted position.*
- *Works better than PB Blaster and Torq CBII.*

Industrial Applications

Marine Applications

Engines

Part No. 211336
15 oz. net wt.

HYDRAULIC JACK OIL

- A heavy-duty, high pressure, anti-wear, and non-corrosive hydraulic jack oil.

Part No. 711747
32 oz. net wt.

SNOW PLOW QUICK-LIFT

- Quick-lift is a heavy duty universal hydraulic fluid with anti-wear additives that also help prevent cold weather hesitation.

Part No. 711798
32 oz. net wt.

SNOW PLOW OIL

- Improved formula hydraulic fluid.
- Blue non foaming anti wear formula with anti-freeze additive protects to extreme conditions down to (-50°F).

Replaces Meyers® 15134 Western49311 Fisher® 28531, Sno-Way® 96005029

Part No. 711797
32 oz. net wt.

KNOCK'ER LOOSE®
Technican Grade Lubricant/Penetrant

- Concentrated heavy-duty formula penetrates rust and corrosion.
- Leaves behind a long-lasting, fine film lubricant to protect against future corrosion.

Part No. 211589
9 oz. net wt. (255g)

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LUBRICANTS

LUBRIPLATE 630-2 Multi-Purpose Grease

General greasing, For a wide range of lubrication needs.

- **Reduces need for wide range of grease inventories.**
- **Exceptional resistance to water, steam and adverse conditions.**
- **Color: Off White.**

Grease type: Lithium
NLGI Grade: 2
Worked penetration @ 77°F: 265/295
ASTM Drop Point: 380°F
Approx. cold test: 0°F
Anti-wear / extreme pressure rated
Water resistant
Rust & oxidation and lubricity additives.

Part No. 711761 10
14.5 oz. net wt. cartridge

LUBRIPLATE 1200-2 Multi-Purpose Grease

AN EXCELLENT, HEAVY-DUTY MULTI-PURPOSE GREASE.

- **Provides high film strength, great shear stability.**
- **Color: Beige.**

Grease type: Lithium
NLGI Grade: 2
Worked penetration @ 77°F: 265/295
ASTM Drop Point: 400°F
Approx. cold test: -25°F
Anti-wear / extreme pressure rated
Water resistant
Rust & oxidation and lubricity additives.

Part No. 711762 10
14.5 oz. net wt. cartridge

LUBRIPLATE 3000

Heavy duty construction equipment. Moly provides highest pressure rating of all greases.

- **Tacky, moly, extreme pressure grease provides durable, tenacious, adhesive film to protect against water, rust and corrosive contaminants.**
- **Color: Black.**

Grease type: Moly/Lithium
NLGI Grade: 2
Worked penetration @ 77°F: 265/295
ASTM Drop Point: 450°F
Approx. cold test: 0°F
Anti-wear / extreme pressure rated
Water resistant
Rust & oxidation and lubricity additives.

Part No. 711769 10
14.5 oz. net wt. cartridge

LUBRIPLATE LOW-TEMP 3000-W

Open gears, low speed bearings, slides, fifth wheels, quarry and mining equipment, freezers.

- **Especially formulated for cold weather applications.**

Grease type: Moly/Lithium
NLGI Grade: 1
Worked penetration @ 77°F: 310/340
ASTM Drop Point: 375°F
Approx. cold test: -30°F
Anti-wear / extreme pressure rated
Water resistant
Rust & oxidation and lubricity additives.

Part No. 711764 10
14.5 oz. net wt. cartridge

LUBRIPLATE MO-LITH NO. 2

Special Moly-Lithium For extended lubrication intervals.

- **Molybdenum DiSulfide actually penetrates metal pores for long lasting protection.**

Grease type: Moly/Lithium
NLGI Grade: 2
Worked penetration @ 77°F: 265/295
ASTM Drop Point: 360°F
Approx. cold test: -10°F
Anti-wear / extreme pressure rated
Water resistant
Rust & oxidation and lubricity additives.

Part No. 711763 10
14.5 oz. net wt. cartridge

LUBRIPLATE MAG-1

- **Multi-functional, non-corrosive grease.**
- **Provides long lasting, extreme pressure lubrication in extremely wide temperature range.**

Grease type: Lithium / Polymer
NLGI Grade: 1
Worked penetration @ 77°F: 310/340
ASTM Drop Point: 375 °F
Approx. cold test: -60°F
Anti-wear / extreme pressure rated
Water resistant
Rust & oxidation and lubricity additives.

Part No. 711774 10
14.5 oz. net wt. cartridge

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DO NOT USE IN OXYGEN GAS SERVICE.

LUBRICANTS

LUBRIPLATE 630AA
Multi-Purpose Lithium Grease

Excellent for a wide range of lubrication demands.

- **High film strength.**
- **Exceptional resistance to water and steam.**

Grease type: Lithium
NLGI Grade: 1
Worked Penetration @ 77°F: 310/340
ASTM Drop Point: 380°F
Approx. cold test: 0°F
Anti-wear/ extreme pressure rated
Water resistant.
Rust & oxidation and lubricity additives.

Part No. 711751
6 lb. can

LUBRIPLATE 1242 Extreme Pressure

For heavy pressure and shock loads.

- **Extreme pressure grease.**
- **Non-corrosive.**
- **Highly water resistant & tacky.**

Grease type: Lithium Polymer
NLGI Grade: 2
Worked penetration @ 77°F: 265/295
ASTM Drop Point: 425°F
Approx. cold test: 15°F
Anti-wear / extreme pressure rated
Water resistant
Rust & oxidation and lubricity additives.

Part No. 711771 10
14.5 oz. cartridge

MOTOR ASSEMBLY GREASE

THE MOTOR GREASE RECOMMENDED BY MECHANICS

For engine bearings, cylinder walls, piston rings — all moving internal parts.

- **Provides critical start-up lubrication until oil begins flowing.**
- **Prevents scoring and scuffing.**
- **Insures proper initial break-in.**
- **Temperature range: - 30°F to 170°F.**

Part No. 711765 6
10 oz. net wt. (28.3g) tube

PERMATEX® ANTI-SEIZE LUBRICANT

A highly refined blend of aluminum, copper and graphite lubricants. Use during assembly to prevent galling, corrosion and seizing. Anti-Seize assures easier disassembly. Temperature range: -60°F to 1600°F (-51°C to 871°C). Salt, corrosion and moisture resistant – ideal for marine use.

Suggested Applications: For easy removal of spark plugs, cylinder head and exhaust head bolts.

Part No. 812383
8 oz. brush-top bottle

GENERAL PURPOSE ANTI-SEIZE

For easy removal of spark plugs, cylinder head bolts, exhaust hardware, disc brake calipers, and all machinery and equipment fasteners. Use to protect metal parts under extreme pressures up to 15,000 p.s.i. and sustained temperatures up to 2200°F.

- **Highly refined blend of aluminum, copper and graphite.**
- **Contains no lead.**
- **Assures easy disassembly.**
- **Superior temperature range: -252°F to 2200°F.**
- **Water and steam proof, non-flammable.**
- **Excellent for long term corrosion protection.**

Prevents rust, corrosion, seizing and galling.

OXYGEN SENSOR SAFE!

Part No. 211318 (12)
8 oz. net wt. brush top container

Part No. 211413 (12)
13 oz. net wt. (368g) aerosol

COPPER ANTI-SEIZE

Recommended for use on carbon steel, industrial and oil field connections, spark plugs, head bolts, exhaust bolts and slides.

- **Premium copper/graphite blend.**
- **Contains NO lead, zinc or nickel.**
- **Withstands high torque and temperatures up to 2000°F.**
- **Excellent water and corrosion resistance.**

OXYGEN SENSOR SAFE!

Part No. 211307 6
8 oz. net wt. (227g) brush top container

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LUBRICANTS

DO NOT USE IN OXYGEN GAS SERVICE.

NEVER•SEEZ® ANTI-SEIZE COMPOUNDS

Part No. 211548 (12)
8 oz. net wt. brush top container

Part No. 211549 (12)
16 oz.
12.5 fl. oz. net wt. aerosol

Never•Seez® compounds provide protection in a lot of ways. Properly applied, they provide a fine, protective film that doesn't burn off or wash off in salt or fresh water. Each Never•Seez® product is formulated to work in a specific, critical environment.

The "original" anti-seize compound formulated with copper, graphite, aluminum and other ingredients to protect up to 1800°F against seizure and galling, galvanic and environmental corrosion. Meets MIL-A-907E, Ford ESE-M12A4-A, Garrett Engine Div. PCS5724, Pratt & Whitney PWA 360523-2.

- **Protects from seizure at high temps.**
- **Resists galvanic action.**
- **Prevents galling.**
- **Protect against rust and corrosion.**
- **Bolts, flanges and other parts are removed in less time without damage.**
- **Dissimilar metals do not react at contact interface and allow smooth operation.**
- **Prevents damage at assembly lowering scrap cost; speeds disassembly.**
- **Parts do not corrode, extending service life and non-destructive disassembly.**

REGULAR GRADE

Temperature resistance: -297° to 1800°F
Particle size: 2 mil. maximum
Specific gravity: 1.23 to 1.29
Worked penetration: 260-350
Coefficient of friction @ 167°F: .057-.063
Coefficient of friction, k factor: .130
Extreme pressure properties: 32,000 psi
Falex test: 750 lbs.

NON METALLIC ANTI-SEIZE

Environmentally safer because it contains no metal additives, reducing personal health hazards.

- **Premium grease/calcium/graphite blend.**
- **Contains NO copper, lead, nickel, zinc or any other metals.**
- **Can safely be used on all types of metals including stainless steel and other sensitive alloys where copper is prohibited.**
- **Recommended by auto manufacturers for use on sensor threads to minimize false readings.**
- **Withstands temperatures up to 2000°F.**

OXYGEN SENSOR SAFE!

Part No. 211305 6
8 oz. net wt. (227g)
brush top container

PERMATEX® DIELECTRIC TUNE-UP GREASE

Marine and automotive electrical connections, spark plug boots, trailer hitches and battery terminals.

- **Protects electrical connections and wiring from salt, dirt and corrosion.**
- **Extends the life of bulb sockets.**
- **Prevents voltage leakage around any electrical connection.**
- **Also prevents spark plugs from fusing to boots.**
- **Required for modern high energy ignition systems.**

Part No. 812229
3 oz. net wt. tube

DIELECTRIC SILICONE GREASE

TOP TEN SELLER

Spark plug and distributor boots, rotor tips, O-rings, seals, electrical connections, cable connectors, battery terminals.

- **Seals and lubricates electrical connections and contacts.**
- **Prevents boots from bonding to spark plug.**
- **Seals out moisture, prevents arcing.**
- **Lubricates and waterproofs from -70° F to +400°F.**

PART NUMBER	DESCRIPTION
13149	.33 oz. Tube
13148	5 oz. Tube
13144	7.25 oz. Aerosol Piston-Pressurized Can

SIL-GLYDE SILICONIZED GREASE

Hi-Temp Lubricating Compound

- **Contains silicone.**
- **For use on rubber, metal, hinges, brake parts, etc.**
- **Excellent temperature resistance, -20°F to + 400°F.**
- **Unlimited uses in shop, fleet, auto or home.**
- **Lubricates, silences, freezeproofs and weatherproofs.**

Part No. 211367
4 oz. net wt. tube

Part No. 211368
8 oz. net wt. tube

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SYNTHETIC BRAKE CALIPER GREASE

- Prevents vibration and squeal.
- Stops rust and corrosion.
- Keeps sliding parts free and working.
- Will not harm rubber.
- Withstands high operating temperatures, to +500°F.
- Will not run, cake or cause build-up.
- Black color.

Part No. 211400 6
2.5 oz. net wt tube (71g)

Part No. 211406 6
12 oz. net wt. can
with applicator brush

PERMATEX® ULTRA DISC BRAKE CALIPER LUBE

- Environmentally - friendly.
- Non-melting, synthetic formula.
- Green color.
- Provides lubrication in the most adverse conditions.
- Use on caliper pins, sleeves, bushings and pistons.
- Pistons remain lubricated throughout pad life.

Part No. 812281 (6)
8 fluid oz.

BRAKE CYLINDER ASSEMBLY FLUID

For reassembly of master cylinders, disc and drum brake cylinders and other hydraulic parts.

- Eases rebuilding, assembly and overhauling of hydraulic parts.
- Does not absorb moisture. Prevents rusting of cylinder walls and internal parts during storage.
- Apply to all surfaces; pistons, boots, seals, springs, rubber caps, shims and cylinder walls.

CAUTION: Do Not Use as a Brake Fluid Substitute or Additive.

Part No. 211412
8 fluid oz.

CERAMIC EXTREME BRAKE PARTS LUBRICANT

Used on long and short bolts, caliper pins bushings, sleeves, pistons, inboard and outboard pad backing plates.

- Temperature range -65°F to +2,800°F.
- Outperforms ordinary caliper greases.
- 100% synthetic, environmentally safe.
- Prevents long bolt and sleeve seizing.

100% Synthetic Formula

Part No. 813267 6
Permatex No. 24125
Brush Top
8 fl. oz. net wt. (236ml)

ULTRA-PLEX PREMIUM RED E.P. GREASE

Specially formulated all purpose grease with extreme pressure and anti-wear additives.

- Withstands heavy shock load and impact pressure
- Excellent adhesive and cohesive properties
- Resists acids, weather, dirt, saltspray, steam and oxidation.

Grease type: Polymer
NLGI Grade: 2
Worked penetration @ 77°F
250-270

ASTM Drop Point: +550°F
Timkin OK Load: 65lb
Water Resistance: Excellent
USDA Category: H2

Part No. 211332 24

"24 K" GOLD Non-Melt, All Purpose Grease

OUTPERFORMS ORDINARY GREASES

High Temp and extreme pressure applications; most fleet and industrial applications including 5th wheels.

- Timken 65 lb. rating.
- Eliminates varied grease inventories.

PART NUMBER	DESCRIPTION	QTY
211322	14.5 oz. net wt. cart.	24

Grease type: Inorganic
Polymer NLGI Grade: 2
Worked Penetration @ 77°F: 370/410
ASTM Drop Point: Non-Melt
Approx. cold test: 0°F
Anti-wear/ extreme pressure rated
Water resistant.
Rust & oxidation and lubricity additives.

LUBRIPLATE WHEEL BEARING GREASE

For use on cars, trucks, trailers, construction, farm andmaintenance equipment.

- Water repellent.
- Suitable for disc or drum brake wheel bearings, axle and other shaft type bearings.
- Temperature range: -10°F to +400°F.

Part No. 711752
14 oz. net wt. can (397g)

LUBRIPLATE BOAT TRAILER WHEEL BEARING GREASE

All marine applications: motors, shafts, winches, hitches, etc.

- Designed to withstand fresh and salt water.
- Extremely high film strength.
- Temperature range: -10°F to +400°F.
- Will not wash out of bearings.

Part No. 711770 10
14 oz. net wt. can (397g)

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OIL / LUBRICANTS

RUBY RED NON-MELT HIGH PERFORMANCE WHEEL BEARING GREASE

Specifically developed to exceed Chrysler, Ford and GM disc brake wheel bearing lubrication specifications.

TOP TEN SELLER

Grease Type: Inorganic Polymer
NLGI Grade 1 & 2
Worked penetration @ 77°F 375/400
ASTM Drop point: Non-melt

Approx. cold test: -10°F
Anti-wear / extreme pressure rated
Water resistant
Rust & oxidation and lubricity additives.

- **Will not run or melt at high operating temperatures like ordinary greases.**
- **Shock load and impact pressure rating of 65 timken.**

PART NUMBER	DESCRIPTION	QTY
211320	14.5 oz. net wt. cart.	24
211326	7lb. can	
211314	45 lb. pail	

FREEWHEEL LUBRICANT

FIFTH WHEEL, SLIDER and CHASSIS

Eliminate greasy, messy, fifth wheels, and stuck sliders with FREEWHEEL, a NEW "Thin Film" laminated film lubricant. Outperforms all conventional 5th wheel grease.

- **Will not wash out, especially resistant to salt water, and will not attract dirt or gravel.**
- **Resists squeeze-out under load, reduces wear on 5th wheels.**
- **Penetrates and frees rusted sliders.**
- **Creates a cleaner, safer, easier steering rig, makes lane switching and turns smooth, even under adverse conditions.**

Part No.
211461 (12)
15 oz. net wt. (425g)

COST LESS TO USE THAN GREASE

NO SMOKE TWO STROKE

SMOKELESS 2-CYCLE OIL

Use in ALL 2-stroke Air Cooled Engines

The first truly smokeless 2 cycle engine oil to be formulated, blended, packaged, and marketed in the US. Extensive testing indicates the same particles that foul the air also foul the plug, muffler, cylinder, and exhaust ports. No Smoke Two Stroke is safer for the equipment operator as well as the environment because it eliminates exhaust smoke. No Smoke Two Stroke burns so clean that there is virtually no carbon build up.

PART NUMBER	FLUID OZ	DESCRIPTION	QTY
211212	2.6.	mix in 1 gal. of gas	24
211213	6.4	mix in 2.5 gal. of gas	24
211214	8	mix in 5 gal. of gas	24

When tested against an OEM reference oil, No Smoke Two Stroke showed:

- **Amazingly low deposit formations.**
- **Excellent anti-corrosion performance.**
- **Superior performance with unleaded gas.**
- **Incredible anti-seizure protection.**
- **Remarkably less exhaust port clogging.**
- **Significantly less piston scuffing.**
- **Reduced down time.**
- **Increased engine life.**

No Smoke Two Stroke meets the most severe API air cooled engine oil service classification of TC, and the SAE Miscibility/Fluidity Grade 3. The flash point is 265°F. It is formulated to mix with unleaded gas. No Smoke Two Stroke is a multi-ratio product and gives excellent results in all air cooled two cycle engines regardless of manufacturer's suggested mixing ratio. It is packaged in black plastic bottles which contain up to 25% regrind or recycled plastic.

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The Best Synthetic Technology

Life Automotive's **Smart Blend** products are made with synthetic base stocks & additives. Smart Blend's unique synthetic technology out performs mineral oil based products especially in extreme heat & cold conditions. Smart Blend is the #1 used synthetic product in the transmission industry today.

SYNTHETIC HIGHLY FRICTION MODIFIED ATF SUPPLEMENT

"BLACK BOTTLE"

Converts Dexron III®/Mercon® fluid into a highly friction modified fluid. Eliminates the need for Honda®, Toyota®, Chrysler® 7176 fluid & other highly friction modified fluids, therefore enabling users to stock one fluid type, increasing profits. **Smart Blend HFM** ATF also has the same benefits of **Smart Blend** "Red" ATF protectant.

#1 SELLING Synthetic HFM Worldwide

Part No. 211492 12
10 oz. net wt. (296ml.)

SYNTHETIC AUTO. TRANS. FLUID M-V SUPPLEMENT

"BLUE BOTTLE"

Smart Blend is a uniquely blended synthetic product specifically designed to convert and enhance Dexron III® /Mercon® fluid (1 oz. per quart) into a Mercon V® type fluid and extends the frictional stability of the fluid, preventing torque converter lock-up shudder. **Smart Blend** extends fluid life, creating longer service intervals for the vehicle, saving time and money.
Mercon V® was introduced by the Ford Motor Company in 1997 for use in 1997 and later A4LD-E (4R44E) and 5R55E transmissions. Mercon V® is also required for 1998 vehicles with AX4N and AX4S transaxles, plus A0DE-W (4R70W) transmission. **Note:** Mercon V® fluid can be used where Mercon ® is recommended, but Mercon cannot be used to replace Mercon V fluid.

Part No. 211494 12
10 oz. net wt. (296ml.)

SYNTHETIC AUTO. TRANS. FLUID D-VI SUPPLEMENT

"PURPLE BOTTLE"

- **Converts Dexron III®/Mercon® Automatic Transmission Fluid (ATF) into a highly stable fluid as DEXRON VI®.**
- **STOPS torque converter shudder instantly.**
- **Extends frictional stability and fluid life.**
- **Creates longer service intervals.**
- **Softens hard shifts.**
- **Eliminates the need for stocking muliple OEM fluids, saving: time, money and space.**

NEW For Use In ALL GM Applications

Part No. 211500 12
10 oz. net wt. (296ml.)

TRANS FLUSH COOLER FLUSH KIT

Specifically formulated to prevent automatic transmission cooler contamination (metal shavings, sludge, etc.) by propelling a biodegradable cleaner through the transmission cooler & lines with 90 lbs. of pressure. Trans Flush's patented technology is the **#1 Selling Cooler & Line Flusher Worldwide. Trans Flush** is ideal for installers as well as lube shops and repair shops.

#1 SELLING Worldwide

Part No. 211495 12
18 oz. net wt. (510g)

TRANS PREP ASSEMBLY LUBE

Specifically designed for automatic or manual transmission assembly. Lubricates o-rings, gaskets, bearings, bushings, sealing rings, thrust washers & seals during assembly. It's unique blue color prevents misdiagnosing leaks. **Trans Prep** will not melt at shop temperatures up to 135° & is formulated to dissolve quickly at operating temperatures, therefore not clogging filters. **Trans Prep** is compatible with all transmission fluids.

Part No. 211496 12
16 oz. net wt. (454g)

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ADHESIVES and SEALANTS

R.T.V.* SILICONE SEALANT

The most versatile maintenance material that never hardens and seals indefinitely.

- Adheres to virtually any surface . . . metal, glass, wood, rubber, ceramic, plastic, paint.
- Great for fastening, insulating, caulking, weatherproofing, gasketing, bonding and sealing.
- Cures at room temperature.
- Seals against water, air, chemical, oil, grease.
- One component, no costly mixing, no waste.
- Excellent weatherability & extreme flexibility — will not crack or harden.
- Standard cure: Not for use on or near engine sensors.
- Surface Cure: 1 hour Full Cure: 24 hours
  * Room Temperature Vulcanizing

– One Part Silicone – No Mixing – – No Waste –

SEALS CAULKS BONDS INSULATES

COLOR	10.5 oz. CARTRIDGE	QTY	7.25 oz. AEROSOL	QTY	3 oz. TUBE	QTY	TEMPERATURE RANGE
Clear	**812325**	6	**812377**	6	**812335**	3	-80°F to +500°F
White	**812326**	6	**812389**	6	---		-80°F to +500°F
School Bus Yellow	**812329**	6	**812399**	6	---		-80°F to +500°F

R.T.V.* "MAKE-A-GASKET" SILICONE SEALANTS

THE BEST "MAKE-A-GASKET" SILICONE AVAILABLE . . . WITH A DISPENSING SYSTEM FOR ALL APPLICATIONS

Use on exhaust manifolds, and flanges, axle covers, oil pans, water pumps, valve and solenoid covers, intake manifolds, timing gear covers, and thermostat housings, and as a body seam sealer. Also insulates electrical wiring.

- Non-corrosive – Safe on aluminum.
- 15 minute cure – Allows immediate assembly.
- Low volatile – Low odor.
- Improve flexibility – Will not harden.
- Improved resistance to oil, grease, water, anti-freeze, and transmission fluid.

OXYGEN SENSOR SAFE!

R.T.V. 600° HI-TEMP RED

PART NUMBER	SIZE	QTY
812323	10.3 oz. cartridge	6
812359	7.25 oz. aerosol	6

R.T.V. BLUE

PART NUMBER	SIZE	QTY
812324	10.3 oz. cartridge	6
812349	7.25 oz. aerosol	6

R.T.V. BLACK

PART NUMBER	SIZE	QTY
812333	* 3 oz. tube	12
812328	10.3 oz. cartridge	6
812369	7.25 oz. aerosol	6

R.T.V. ALUMINUM

PART NUMBER	SIZE	QTY
812376	* 3 oz. tube	3
812327	10.3 oz. cartridge	6
812379	7.25 oz. aerosol	6

MEETS O.E.M. VOLATILITY SPECIFICATIONS FOR OXYGEN SENSOR EQUIPPED ENGINES.

TOP TEN SELLER

OUT PERFORMS PERMATEX, 3M AND OTHER MAJOR BRANDS . . .AND IT COSTS LESS!

*** ALL 3 OZ. TUBES ARE HIGH-TEMP RATED AT 600°F**

* Room Temperature Vulcanizing

TUBE - GRIP™ DISPENSER HANDLE

For improved handling and dispensing of RTV silicone or other materials supplied in a flexible tube. (accepts max. tube width of 2-1/2")

Part No. 812375

- Faster application and less clean up – saves time!
- Applies the precise amount in a controlled bead at the exact spot needed – Saves material! No waste!
- Empties tubes completely; get as much as 35% more material from a tube – Saves money!

REPLACEMENT NOZZLES

Used to replace nozzles clogged with cured material.

- Fits our 3 oz. silicone tubes and all other tubes with #20 size threads.
- Cut them to different openings to fit the job.
- Also put over existing nozzle to seal & protect unused materials.

Six nozzles per pack.

Part No. 812374 6

LOCTITE® SILICONE POWER CANS

Loctite® brand Silicones now come in a new dispensing system, specifically designed for easy application with fingertip control.

- Easy to use, ergonomic, fingertip control.
- Extrudes product in more accurate, constant, steady bead.
- Silicone and dispense system in one – no caulking gun required.
- Attached nozzles- no more searching for dispensing nozzles!
- VOC-free propellants.

Loctite® Superflex® RTV Silicone Adhesive/Sealant.
190 ml Aerosol – General purpose, indoor/outdoor sealant.

PART NO.	COLOR	TACK-FREE	FULL STRENGTH	TEMP. RANGE
40481	Clear	30 minutes	24 hours	-65°F to 450°F
40464	Black	30 minutes	24 hours	-65°F to 450°F
40466	White	30 minutes	24 hours	-65°F to 450°F

Loctite® Superflex® Red High Temp RTV Silicone Gasket Maker.
190 ml Aerosol – High temperature gasket maker or dressing.

PART NO.	TACK-FREE	FULL STRENGTH	TEMP. RANGE
40465	30 minutes	24 hours	-75°F to 600°F Intermittent

Loctite® Superflex® Blue RTV Silicone.
190 ml Aerosol – Sensor-Safe Gasket Maker.

PART NO.	TACK-FREE	FULL STRENGTH	TEMP. RANGE
40482	30 minutes	24 hours	-65°F to 500°F Intermittent

Loctite® Instant Gasket.
90 ml and 190 ml Aerosol – Makes reliable gaskets in one minute.

PART NO.	SIZE	STRENGTH	TEMP. RANGE
40479	190 ml	15 psi-1 min.	-75°F to 450°FContinuous
40478	90 ml	15 psi-1 min.	500°F Intermittent

Loctite® 587™ Blue High Performance RTV Silicone Gasket Maker.
190 ml Aerosol – Forms tough, flexible gaskets directly on the flange.

PART NO.	TACK-FREE	FULL STRENGTH	TEMP. RANGE
40462	30 minutes	24 hours	-75°F to 500°F Intermittent

Loctite® 598™ Black High Performance RTV Silicone Gasket Maker.
190 ml Aerosol – Forms tough, flexible gaskets directly on the flange.

PART NO.	TACK-FREE	FULL STRENGTH	TEMP. RANGE
40463	30 minutes	24 hours	-75°F to 625°F Intermittent

Loctite® 5699™ Grey High Performance RTV Silicone Gasket Maker.
190 ml Aerosol – Flange sealing with excellent oil resistance.

PART NO.	TACK-FREE	FULL STRENGTH	TEMP. RANGE
40505	30 minutes	24 hours	-75°F to 625°F Intermittent

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ADHESIVES and SEALANTS

E-6000™ HIGH STRENGTH SYNTHETIC ADHESIVE/SEALANT

Bond all these porous and non-porous substrates: metal, wood, plastics, tile, glass, fiberglass, concrete, brick, rubber, canvas, leather, vinyl and fabric.

- **Eliminates the need for any other glue, epoxy, silicone, rubber cement or patch kit.**
- **Very high tensile strength.**
- **Extremely flexible, even underwater.**
- **Non-corrosive.**
- **Self-leveling (also non-slump for verticals and overhead).**
- **Paintable, both oil and water base paints.**
- **Available in clear, white, gray and black.**

TECHNICAL SPECIFICATIONS

Hardness: 75 to 85 Shore A
Elongation: 700%
Recovery at 300%: 95%

Temperature range: -120°F to 210°F
Tensile strength: 2,900 PSI
Viscosity: self-leveling

Tack free time: 10 minutes (outer surface)

Cure time: 8 hours as a sealant - 24 hours as an adhesive at 70°F, faster when warmer, slower when cooler.

PRODUCT	PART NUMBER / COLOR				QTY
	Clear	White	Black	Gray	
E-6000 Self-Leveling					
Tubes 3.7 fl. oz.	**211420***	---	**211422**	---	6
Cartridges 10.2 fl. oz.	**211440***	---	**211442**	---	6
E-6100 Non-Slump					
Cartridges 10.2 fl. oz.	**211444**	**211445**	**211446**	**211447**	6
UV-6800 UV Stable					
Tubes 3.7 fl. oz.	**211438**	---	---	---	6
Cartridges 10.2 fl. oz.	**211439**	---	---	---	6

*E-6000 Clear is not UV stable, for outdoor applications use UV-6800.
All E-6000 colors are UV stable.

SILICONIZED ACRYLIC LATEX CAULK

A premium quality latex caulk with outstanding adhesion, out-door weathering, minimum shrinkage and long tooling time. Acrylic base is resistant to oxidation and U-V rays. Added silicone improves adhesion to ceramic and glass substrates. Provides a waterproof and weatherproof seal.

- **Does not require priming.**
- **Can be painted with latex or oil-base paints.**
- **Paintable and easy cleanup.**
- **Mildew resistant and waterproof.**
- **Non-staining, non-yellowing, odor free.**
- **Excellent adhesion to aluminum, wood, concrete, glass, ceramic tile, etc.**
- **Interior or exterior use.**

Part No. 211431 (12)
10.5 fl. oz. cartridge / Color: White

LIQUID ELECTRICAL TAPE

- **Virtually seals out all moisture, dirt and corrosion.**
- **For tight places that can't be reached with ordinary tape.**
- **Sticks to metal, rubber, vinyl & plastic.**
- **Forms a tough, flexible, black coating that dries at room temperature in just.**
- **Will not become brittle and crack like similar PVC based competitive brands.**

Part No. 211211 (12)
4 fl. oz. / Brush-on applicator lid.

Tested and approved for initial assembly by one of the leading manufacturers of electric fork lifts. Determined to be the best battery terminal protector and sealer ever used.

Q-BOND FAST BONDING ADHESIVE

One of the finest products for repairing various types of breaks, cracks and other damages to a wide range of items.

Part No. 204050
Each **Q-BOND** Ultra Strong Adhesive Kit Contains:
2 x 10ml Q-Bond Adhesive
1 x Grey Powder
1 x Black Powder

BLACK POWDER
- **Bumpers Grills Radiators.**
- **Electrical Switches.**
- **PVC Pipes.**
- **Hand Tools.**
- **Waterbottles.**
- **Appliances.**

GREY POWDER (Aluminum)
- **Small Engines up to 180°C**
- **Computers & Office Equip.**
- **Carburetors (Oil & Gas Resistant)**
- **Metal Casings**

LEAK LOCK®

A soft setting pipe joint compound for sealing threaded joints, flanged joints, gasket surfaces and mating surfaces.

- **A resin based brushable paste which remains permanently flexible, adheres to internal surfaces and fills voids.**
- **Ideal for metal and plastic materials subject to extreme vibrations.**
- **Effective in temperatures from -200°F (-93°C) to 400°F (204°C), full vacuums and pressures to 10,000 PSI.**

Leak Lock seals a broad range of chemicals including all refrigerants such as R12, R22, R502, R134a, etc., petroleum products, natural and manufactured gases, steam, water, air, etc. No other sealant offers the application range of **Leak Lock**.

USDA Approved: Federal meat and poultry products inspection program. Potable water, lead free.

Part No. 811153 (12)
1-1/3 oz. tube

Part No. 811154 (12)
4 oz. brush top plastic jar

HANDI-FOAM EXPANDING SEALANT

Industrial quality rigid urethane foam insulation and sealant. Expands 3 times its volume to form an air tight seal.

- **Super light weight**
- **Expands as it cures. Will not crack or peel away.**
- **Insulates pipes, patches leaks, seals.**
- **Dries to the touch in 20 minutes, can be shaped in 2 hours.**
- **Lightweight, non-toxic, waterproof.**
- **Easily drilled, sanded or cut. Accepts any paint, lacquer or plaster.**

Part No. 811225 6
Contents Net Weight 12 oz. (340g)

NOTE:
This can must be inverted during use to properly dispense the foam.

Unique angle adapter and extension tube for hard-to-reach places, insulates, seals around pipes and plumbing fixtures.

Stop drafts and air leakage around openings for vents, antennas and electrical service connections, pipe feed-throughs.

Seals holes and cracks in walls where insects and rodents enter. Can be plastered and painted to match surrounding surfaces.

Eliminate air infiltration through electrical outlet and switch openings by filling junction box cavities.

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ADHESIVES and SEALANTS

GORILLA GLUE - SUPER GLUE

New Impact-Tough Technology

Bonds metal, ceramics, wood, stone plastic & more!

- Unique rubber particles increase impact-resistance an strength.
- Anti-clog metal tip.
- Thicker formula for easy flow control.

Part No. 813265
2 tubes/pkg.
Total Net Wt. (6g) (0.21 oz.)

Part No. 813261
(15g) (0.53 oz.)

GORILLA GLUE - QUICK CURE

Cures 8X's Faster Than Original.

Bonds: stone, metal, ceramic, glass, wood, foam & more!

- Perfect for quick repairs.
- Repairs that don't need long repositioning time but require Gorilla Tough Strength.
- Sets up in 30-60 minutes.
- Open working time: 5 to 10 minutes.
- Dries white, ideal for many applications.
- Extreme strength for strong hold.

Part No. 813262
2 oz. bottle

Precision Pen
Part No. 813264
.75 fl. oz.

GORILLA GLUE - ORIGINAL

Bonds metal, ceramics, wood, stone plastic & more!

- Uses no thickeners, solvents or fillers.
- No mixing.
- Can be used indoors & outdoors. The only true waterproof glue.
- Virtually odorless.
- Goes on dark, neutral when dry.

3 to 4 Times The Coverage Of Other Glues.

See page D14-5 for "GORILLA TAPE"

Part No. 812298
4 oz. bottle

Part No. 812299
8 oz. bottle

CONTACT CEMENT

Bonds gaskets, seals trim, laminates, tile, wood, leather, metal and rubber.

- Brush top cap.
- Bonds instantly and permanently on contact.
- Resists water and chemicals.
- No clamping required.

Part No. 211106
3 fl. oz.
Brush-on applicator lid.

SEAL-ALL ALL PURPOSE ADHESIVE

The only adhesive / sealant not affected by gasoline or oil.

Part No. 211448 (12)
2 fl. oz.

- The repair kit in a tube.
- Sticks, seals, insulates & waterproofs.
- No mixing, no melting.
- UV resistant.
- Colorless.
- **For use on:** Wood, steel, aluminum, copper, most plastics and rubber, porcelain, glass and china, vinyl, fiberglass, canvas and leather, and many other materials.

FORM-A-GASKET NO. 2

A non-hardening, heavy bodied, pliable sealant for semi-permanent assemblies

- Pliable-setting sealant (black).
- Conforms to MIL-S-45180C(ORD) Type 1.
- Temp Range: -65°F to +400°F.
- Pressure to 5,000 psi.

PART NUMBER	PERMATEX NO.	SIZE
812254	2A	1-1/2 oz.
812255	2B	3 oz.
812256	2C	11 oz.

FORM-A-GASKET NO. 3

Excellent for sealing close fitting parts, water pumps, coolant and heating hose connections and threaded assemblies

- A non-hardening liquid, brushable sealant.
- Conforms to MIL-45180C(ORD) Type III.

PART NUMBER	PERMATEX NO.	SIZE
812257	3H	1/4 Pt.

3M SUPER 77 SPRAY ADHESIVE

- Fast drying, aggressive tack for strong bonding.
- An extremely versatile clear multi-purpose adhesive.
- Low mist formula, spray on glue.
- Bonds plastics, foils, metals, papers & cardboards.

Part No. 211590 (12)
16.75 net wt. (475g) (1lb. 3/4 oz)

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ADHESIVES and SEALANTS

HIGH TACK BRUSHABLE NO. 98

- A brushable adhesive-sealant.
- Sets up fast and remains extra tacky to hold the heaviest gaskets in place.
- Red color.
- Temp Range; -65°F to +500°F.
- Brush top can.

PART NUMBER	PERMATEX NO.	SIZE
812260	98H	1/4 Pt.
812269	98D	1 Pt.

HIGH TACK SPRAY-A-GASKET NO. 99

- Red color.
- A super sealant in aerosol form.
- Sets up fast, remains tacky to hold gaskets in place.

PART NUMBER	PERMATEX NO.	SIZE
812262	99MA	10 oz.

COPPER SPRAY-A-GASKET

Same properties as Copper Form-A-Gasket in a handy aerosol spray

- Seals metal and rubber gaskets in high temperature applications up to 550°F.
- Works on paper and cork as well as hard surfaces and non-absorbent and metal faced gaskets.
- Metallic Copper to help dissipate heat.

PART NUMBER	PERMATEX NO.	SIZE
812277	101MA	11 oz.

VIBRA-TITE®

The ONLY locking and sealing coating for threaded fasteners that can be loosened, adjusted, removed and reused - again and again, without recoating.

- NOT AN ANAEROBIC. Vibra-Tite is a special blend of acrylic resins that prevent fasteners from loosening - even under the most extreme vibration.
- Adheres to both ferrous and non-ferrous metals, most platings, wood and plastic screws.
- Creates a reliable, powerful lock and seal for both male & female threads.
- Operational temperature range, -65° to +165°F.
- Costs less than anaerobic adhesives.
- Meets or exceeds the performance requirements of the following specs:
  Military: Mis-28867 U.S. Air Force Part #19207
  U.S. Army Tank Automotive Command
  (General Dynamics) Part #11663357
  National Stock Number NSN-8030-00-163-5792
  OEM: Detroit Diesel 9S244 & 9S256
- Color - Red.
- Reusable, up to 5 times, or more.

Part No. 211469 (12)
30 cc bottle w/brush in cap

SUPER GLUE

The original one drop adhesive

- Instantly bonds metal, rubber, ceramics and most plastics with non-porous surfaces.
- Forms super strong bond in seconds.

Part No. 811213 (12)
(2g) tube

SUPER GLUE REMOVER
Part No. 811218 page C11-5

INSTANTBOND 110

- General purpose instant adhesive.
- Strong (up to 5000 psi) bond.
- Works instantly.
- Used on rubber, glass, plastic, vinyl, aluminum, alloys, dissimilar metals and other non-porous surfaces.

Part No. 910776 (12)
1 oz. bottle

FUTURE GLUE

Works on any oily & dirty surfaces

- Stronger than regular instant adhesives and super glues.
- Bonds all surfaces, except polyethylene & polypropylene.
- Sets in seconds.

Part No. 812347 (12)
Net Wt. .18 oz. (5g) bottle

FUTURE GLUE GEL

No-run formula

- Stronger than super glue.
- Stays put, even on vertical surfaces.
- Bonds all surfaces, including porous.
- One drop holds over 2 tons.
- Non-clogging tip.

Part No. 812348 (12)
(2g) tube

LOCTITE® QUICKTITE® SUPER GLUE GEL

Instant adhesive

- With the same superior performance as the liquid version, the no-run gel formula stays put for no-mess and precise application, even on vertical surfaces.
- Works on porous & non-porous applications.
- Typical applications: metal, most plastics, rubber, vinyl, paper, wood, textiles, ceramics, china & cork.

Part No. 812274 6
(4g) tube
Loctite 39123

PLASTIX

Guaranteed to repair any plastic

- Bonds all plastics, even polyethylene and polypropylene.
- No mixing required.
- Prepare surface with activator, apply bonding agent and bond the parts.

Part No. 812232 (12)
(2g) tube
Permatex 82565

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ADHESIVES and SEALANTS

SUPER GLUE REMOVER

Specially formulated solvent to dissolve cured Super Glue (Cyanoacrylate based adhesive) in between parts, clothing or various surfaces.

- **Debonds for rework or repositioning.**
- **Cleans up excess super glue.**
- **Dissolves thin layers of adhesive.**
- **Works within several minutes or hours depending on the amount of adhesive.**
- **Some jobs may require reapplication or soaking.**

Part No. 811218
2 fl. oz. (59.15 ml)

LOCTITE® THREAD TREATMENT STICKS

Solid performers with a twist. Same formula...new form

- **Less mess - won't drip, spill or leak.**
- **Convenient and portable.**
- **Less waste.**
- **Rust and corrosion protection.**

Great for tough applications - especially overhead and on components that can't be moved.

Store in your tool belt and carry from job to job.

Only 3" to 4" long.

248 MEDIUM STRENGTH THREADLOCKER (BLUE)

- **More reliable than conventional mechanical fasteners.**

Part No. 837087 19 gram stick
Part No. 837684 9 gram stick

268 HIGH STRENGTH THREADLOCKER (RED)

- **Need heat and hand tools to remove.**

Part No. 837686 19 gram stick
Part No. 837685 9 gram stick

PST® 561 THREAD SEALANT with Teflon® (WHITE)

- **Seals to 100 PSI.**
- **Will not contaminate or clog lines.**

Part No. 837127 19 gram stick

C5-A® COPPER ANTI-SEIZE

- **Protects metal parts in high heat environments up to 1800°.**

Part No. 837229 20 gram stick

SILVER GRADE ANTI-SEIZE

- **Protects metal parts in environments up to 1600°.**

Part No. 837230 20 gram stick

LOCTITE® NEXT GENERATION STICKS

Two new Loctite® Stick products with the revolutionary applicator and semi-soild formulas.

- **NO drips!**
- **NO spills!**
- **NO errors!**

LOCTITE® 39150 BEARING MOUNT STICK (GREEN)

- **High temperature/high strength.**
- **Replaces clamp rings, set screws, and snap rings.**
- **Great flexibility for tough applications.**

Part No. 839150 9 gram stick

LOCTITE® 39158 HI-TACK STICK (PURPLE)

- **Holds gasket in place during assembly.**
- **Low odor, solvent free formula.**

Part No. 839158 19 gram stick

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ADHESIVES and SEALANTS

"DOUBLE-BUBBLE" PACKETS

Convenient 2-5/8" x 3" job-size packets eliminates excess waste.

PART NUMBER	DESCRIPTION	PACKAGE COLOR	QTY
204001	Extra Fast Setting Epoxy	Red	5
204002	Machineable Epoxy	Yellow	5
204003	Wet Surface Patch Epoxy	Purple	5
204004	Water Clear Epoxy	Green	5
204005	General Purpose Epoxy	Blue	5
204006	Regular Setting Epoxy	Black	5
204007	High Peel Strength Epoxy	Orange	5
204008	Extra Fast Set (Non Sag)	Red #2	5
204022	Urethane	Green/Beige	5
204023	Urethane	Blue/Beige	5
204024	Urethane	Purple/Beige	5
204030	Silicone	Brown	5
204040	Once-Hand Cleaner	Green/Yellow	5

Part No. 204000
41 pieces • 13 items
12050 steel tray

204001	204006	204024
204002	204007	204030
204003	204008	204040
204004	204022	
204005	204023	

Numbers in assortment

See chart below for application recommendations.

	Package color & Reorder Number	EPOXIES								URETHANES			SILICONE
		RED 204001	RED 204008 (NON-SAG)	YELLOW 204002	PURPLE 204003 ①	GREEN 204004	BLUE 204005	BLACK 204006	ORANGE 204007	GREEN/BEIGE D-50 204022	BLUE/BEIGE D-85 204023	PURPLE/BEIGE A-85 204024	BROWN 204030 ②
	WORK TIME (MINUTES)	3	3	25	25	60	120	45	180	5	5	5	10
	MAX. SERVICE TEMP. (°F)	180	180	300	225	180	200	125	250	175	200	150	450
	WATER RESISTANCE *	F	F	E	E	E	G	G	G	G	VG	F	E
SUBSTRATES – METAL	CARBON STEEL	●	●	○	○		●	○	●	●	●	●	○
	STAINLESS STEEL	●	●	●	●	●	●	○	●	○	●	○	
	ALUMINUM	●	●	●	●	●	●	●	●	●	●	●	○
	COPPER/BRASS	○	○	○	○	○	○	○	●	○	○	●	
	TIN	○	○	○	○	○	●	○	●	○	●	●	
	ZINC	○	○				○	○	●	○	○	●	
SUBSTRATES – PLASTIC	ACETATE					○				○	○	○	
	ACRYLIC	○	○	○	○	○	○		○	○	○	○	
	EPOXY	●	●	○	○	●		●		●	●	●	
	PHENOLIC	○	○	●	●	●		●		●	●	●	
	POLYCARBONATE								○				
	POLYESTER	○	○	●			○		○	○	●	●	
	PVC						●	○	●	○		○	
	POLYSTYRENE						●	○	●	○		○	
	URETHANE	○	○	○		○				●	●	●	
	ABS						○		○	○		○	○
	FIBERGLASS	○	○	●			○	○	○	○	○	●	
	NYLON						○		●			○	
SUBSTRATES – OTHER	RUBBER	○	○	○			●	○	●	●	○	●	
	STONE	●	●	●	●		●	○	●	●	●	●	○
	WOOD	●	●	●			●	●	●				○
	GLASS	●	●	●	●	●	●	○	●	●	●	●	●
	CHINA	●	●	●	○	●	●		●	●	●	●	○
	LEATHER	●	●	●			●		●	●	●	●	

KEY
● First Choice
○ Second Choice

*** WATER RESISTANCE CODES**
Excellent E
Very Good VG
Good G
Fair F

① Cures on wet surfaces.

② Silicone is an adhesive as well as an excellent moisture resistant sealant.

NOTE: When joining different substrates, select the adhesive recommended for both substrates (e.g., for bonding carbon steel to nylon, the orange epoxy package is the product of choice).

SURFACE PREPARATION: Surface must be clean and dry before application. Remove all chemicals, dirt, wax and oil.

NOTE: When joining different substrates, select the adhesive recommended for both surfaces (e.g., for bonding carbon steel to nylon, the orange epoxy package is the product of choice).
SURFACE PREPARATION: Surface must be clean and dry before application. Remove all chemicals, dirt, wax and oil.

Fold

Cut

Squeeze Out

Mix Thoroughly and Apply

This handy, one shot, job-size packaging concept reduces waste, unlike other adhesives. These convenient size packets (2-5/8" x 3") can be carried in a pocket or tool box. Many repair jobs can be handled on-the-spot.

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ADHESIVES and SEALANTS

MEDIUM STRENGTH "WICKING GRADE" POROSITY SEALANT THREAD LOCK

For pre and post assembly of carburetor set screws, alternator & air conditioner bolts, distributor clamp bolts, u-bolts and more. Seals weld pinholes and small cracks in metal housings.

- **Thin consistency liquid wicks into threads.**
- **Allows thread locking of in service devices.**
- **Seals pinholes in welds, small cracks in metal housing and porosity in castings.**
- **Resistant to solvents, oil, gasoline, diesel, grease and antifreeze.**
- **Temperature range from -65°F to 300°F.**
- **Replaces Loctite 290.**

Color: GREEN
MEETS REQUIREMENTS
MIL Spec.: MIL-S-46163
Ford Spec.: WSK-M2G351-A1
Type III, Grade R

Part No.
711787
50 ml. bottle
(1.69 fl. oz.)

MEDIUM STRENGTH REMOVABLE THREAD LOCK

Lock and seal carburetor screws, valve cover bolts, water pump bolts, thermostat bolts, rocker arm adjustment nuts, power tools, etc.

- **Thread locker for fasteners up to 3/4" diameter.**
- **Resistant to gasoline, antifreeze, transmission fluid and oil.**
- **Prevents galling and corrosion of threads.**
- **Removable with hard tools.**
- **Apply prior to assembly.**
- **Temperature range from -65°F to 300°F.**
- **Replaces Loctite 242.**

Part No.
711785
6ml tube (.20 fl. oz.)

Color: BLUE
MEETS REQUIREMENTS
MIL Spec.: MIL-S-46163
Ford Spec.: WSK-M2G351-A5
Type II, Grade N

Part No.
711784
50 ml. bottle
(1.69 fl. oz.)

HIGH STRENGTH RETAINING COMPOUND

High strength retainer for bushings, bearings, ring gear bolts, spline fit parts, woodruff keys, gears, pulleys, oil seals, collars and other cylindrical parts.

- **Restores fit to worn areas up to .005".**
- **Allows use and design of slip fit instead of press fit parts.**
- **High viscosity.**
- **Prevents corrosion.**
- **Temperature range from -65°F to 300°F.**
- **Replaces Loctite 680.**

Color: GREEN
MEETS REQUIREMENTS
MIL Spec.: MIL-R-46082
Ford Spec.: WSK-M2G349-A6
Type III

Part No.
711792
50 ml. bottle
(1.69 fl. oz.)

HIGH STRENGTH, HIGH TEMP, SLEEVE RETAINER

For locking/sealing cylinder sleeves and liners, valve guides and bearings. Retains bushings, collars, gears and other cylindrical parts.

- **Maintains strength up to 450°F.**
- **3500 psi holding strength.**
- **.015" gap fill capability helps tighten loose fitting assemblies.**
- **Medium viscosity.**
- **Prevents corrosion.**
- **Temperature range from -65°F to 450°F.**
- **Replaces Loctite 640.**

Color: GREEN
MEETS REQUIREMENTS
MIL Spec.: MIL-S-46082A
Ford Spec.: WSK-M2G349-A5
Type II

Part No.
711791
50 ml. bottle
(1.69 fl. oz.)

HIGH STRENGTH PERMANENT THREAD LOCK

Lock and seal frame bolts, freeze plugs, wheel studs, cylinder head, block and rocker arm studs. Retains bearings.

- **Prevents loosening. Permanently locks & seals metal nuts, bolts and studs.**
- **Resistant to gasoline, diesel, antifreeze, transmission fluid and oil.**
- **Prevents galling and corrosion of threads.**
- **To remove: apply heat in excess of 300°F to parts to weaken bond.**
- **Temperature range from -65°F to 300°F.**
- **Replaces Loctite 262/271.**

Part No.
711793
6ml tube (.20 fl. oz.)

Color: RED
MEETS REQUIREMENTS
MIL Spec.: MIL-S-46163A
Ford Spec.: WSK-M2G361-A3
Type I, Grade K

Part No.
711788
50 ml. bottle
(1.69 fl. oz.)

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ADHESIVES and SEALANTS

THREAD SEALANT with Teflon®

- Lubricates threads, prevents corrosion.
- Outperforms tape and pipe dope.
- Seals threaded pipe in air, water, oil, gas and hydraulic systems.
- Temperature range: -60°F to +300°F.
- Pressure rating: 0 to 5000 psi.
- Solvent resistance: water, diluted acids and alkalies (10%), ethylene glycol and petroleum lubricating oil.

PART NUMBER	PERMATEX NUMBER	SIZE
812288	14A	1 oz. tube
812289	14D	16 oz. can
812290	14H	4 oz. can

THREAD SEALANT with Teflon®

Part No. 53722
8 oz. brush top can

Now...fast, leak-free pipe joints.

- Never hardens in thread joint or can.
- Lubricates threads for easy disassembly.
- Pressure range use:
  Gases: up to 3,000 PSI
  Liquid: up to 10,000 PSI
- Brushable to -50°F.
- Carries the NSF seal.
- No strong odor.
- Does not contain valve destroying grit.
- Soft set.
- White paste.
- Non-Toxic.
- U.S. Federal specifications:
  Meets and exceeds TT-S-1732

PIPE SEALANT with Teflon® - INDUSTRIAL GRADE -

Seals & protects stainless steel fittings, head bolts into through holes, pressure sending units/sensors, oil and coolant lines, fuel fittings, intake manifold switches and axle plugs.

- Certified to ANSI/NSF Standard 61for use in potable water systems.
- Formulated specifically for metal, tapered pipe thread fittings.
- Cures rapidly to withstand 10,000 PSI.
- Excellent replacement for Vibra-Seal® pre-coated parts.
- Prevents galling, rust and corrosion.
- Contains no petroleum based ingredients.

Part No. 711796
50 ml tube
Permatex No. 56521

LOCTITE® THREADLOCKER TAPE

Part No. 837088
Color: Blue
260" roll

- The first threadlocker in a tape form.
- No mess. no waste.
- A must for every tool box.
- Can be pre-applied for future assembly.
- The same reliability & performance as Loctite® Removable Grade Threadlocking liquids.

*Number of wraps required is dependent upon the size of the fastener. For a typical 3/8" bolt, 2 to 3 wraps are sufficient.

TEFLON* THREAD SEALING TAPE

Seals & lubricates all pipe fittings, including joints of dissimilar materials. Use on air, steam, oxygen, hydraulic, gas and refrigerant lines.

Seals permanently, yet easy to disassemble.

- Withstands pressures to 10,000 psi.
- Temperature range: –400°F to +600°F
- Not affected by acids, gases, solvents, gasoline, oils or grease.
- Non-flammable, non-toxic, will not dry out.
- Meets MIL-T-27730A.

STANDARD LOW-DENSITY

- Color: White.
- Density: .700.
- Thickness: .0032-.0034.

PART NUMBER	WIDTH (INCHES)	LENGTH (INCHES)	QTY
53718	1/2	520	6
53719	3/4	520	6

INDUSTRIAL HI-DENSITY

- Color: Pink.
- Density: 1.20.
- Thickness: .0035-.0037.

PART NUMBER	WIDTH (INCHES)	LENGTH (INCHES)	QTY
53720	1/	520	6
53721	3/4	520	6

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SUPERBOND 8000 STRUCTURAL ADHESIVE

BONDS STRONGER THAN STEEL • INDUSTRIAL • MARINE • AUTOMOTIVE

- **Bonds plastics, metals, composites, wood, concrete and dissimilar substrates.**
- **Environment Friendly - 100% solids - low VOC.**
- **Rapid cure at room temperature - no heat or UV.**
- **Easy dispensing through hand held dispensers or meter mix equipment.**
- **Requires no surface preparations such as sanding or grinding.**
- **Replaces mechanical fasteners - increased design freedom with reduced weight.**
- **Unused portions can be resealed and saved.**
- **May be drilled, tapped, sanded, machined and painted after cure.**
- **Ideal for bonding thin or sheet metal where dimpling or scorching of the metal due to welding is not acceptable.**

• IMPORTANT •

STORAGE AND SHELF LIFE. Raelyn methacrylate adhesives should be stored in a cool dry area away from heat. A shelf life of one year is based on storage between 55-75° F. Long term storage above 75° F will reduce shelf life of the materials. Prolonged exposure above 100° F greatly diminishes the product reactivity and should be avoided. Shelf life can be optimized by refrigeration 45-60° F. This product should never be frozen or stored below 45° F.

SUPERBOND 8000 IS AVAILABLE IN KITS

"3 CARTRIDGE KIT"

(3) 50ml dual cartridge packages, (6) static mixers, (1) dispenser gun

Part No. 811245

"6 CARTRIDGE KIT"

(6) 50ml dual cartridge packages, (12) static mixers, (1) dispenser gun

Part No. 811246

OR AS INDIVIDUAL COMPONENTS

50ml DUAL CARTRIDGE

(includes one static mixer per cartridge)

Part No. 811247 (6)

STATIC MIXER

Part No. 811248 (12)

DISPENSER GUN

Part No. 811249

• TECHNICAL DATA SHEET •

PRODUCT DESCRIPTION

Superbond 8000 is a two component methacrylate adhesive. It is specially formulated for structural bonding of thermoplastics, metal, wood and composite assemblies. **Superbond 8000** is an excellent choice for composite bonding applications in the marine, automotive and construction industries because it requires virtually no surface preparation. **Superbond 8000** provides superior toughness at temperatures from -100° to 300° F.

PRODUCT BENEFITS

- **100% solid**
- **Easy mixing ratio of 1:1 by volume**
- **Almost no surface preparation is needed**
- **Superior fatigue and impact resistance**
- **Outstanding environmental resistance**
- **Exceptional at bonding dissimilar substrates**
- **Excellent salt spray resistance and gap filling ability**
- **Dramatically reduces assembly cost**

WHAT CAN THE PRODUCT BOND?

THERMOPLASTICS

- **ABS**
- **Acrylics (PMMA)**
- **Nylon 6 or Nylon 6 Alloys**
- **Polycarbonate and blends**
- **PPO & PPO blends**
- **Polysulfone**
- **Styrenics**
- **PVC & Vinyls**
- **PEEK**
- **PBT & PET blends**

THERMOSET RESINS

- **Epoxy**
- **E-Coat & other coated metals***
- **Fiberglass**
- **Gel Coats**
- **Polyurethanes***
- **Rim urethane**
- **SMC***
- **LMR (Liquid Molding Resins)**
- **Polyurea RIM**
- **Phenolics**

METAL AND OTHER MATERIALS

- **Steel** ● **Stainless steel** ● **Aluminum** ● **Copper & Brass** ● **Concrete**

*May need special treatment

WHAT THIS PRODUCT DOES NOT BOND

● **Polypropylene** ● **Polyethylene** ● **Acetal (Delrin)** ● **Teflon** ● **Surlyn**

TYPICAL PROPERTIES (UNCURED)

	A	B
Color	White	Blue
Viscosity, cps	40,000 –60,000	
Spindle TC, 2.5rpm		
Flash point	>50° F	
Specific Gravity	0.9720.948	
Mixing Ratio by Volume	1:1	
Fixture Time @ 75° F	30-45 min	
Cure Time @ 75° F	3-4 hrs	
Gap Fill	0.380 in.	

TYPICAL PROPERTIES (CURED)

Volume Resistivity, ohm/cm	1.1x1014
Overlap Shear Strength, psi	
ASTM D1002	
Aluminum (Etched)	3500
Steel (Abraded)	5000
Fiberglass reinforced	1800
ABS	1000*
Polycarbonate	950*
Acrylic	1200*
Tensile Strength, psi	
ASTM D2094	>8000
Compressive strength, psi	
MIL-R-46082	3700

* Substrate failed at this reading

CHEMICAL RESISTANCE

Ethylene Glycol	Excellent	10% Ammonia	Very Good
10% Sodium Hydroxide	Excellent	10% Sulfuric Acid	Excellent
10% Hydrochloric Acid	Very Good	Hydrocarbon Oil	Excellent
Toluene	Excellent	Unleaded Gasoline	Excellent
Kerosene	Excellent		

Methacrylate products are excellent in water, saturated salt solution, leaded and unleaded gasoline, mineral spirits, ASTM #3 oil, ethylene and propylene glycols. In unleaded gasoline there is no breakdown is performance after 1000 hrs. Methacrylates are generally not recommended for long-term exposure to concentrated acids and bases and organic solvents such as ketones and acetates.

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ADHESIVES and SEALANTS

2400°F THERMOSTEEL

A single part steel cold weld product that can be used to repair cracks, holes and pits in iron & steel equipment that are exposed to temperature up to 2400°F (1316°C). This includes exhaust manifolds, headers, catalytic converters, crossovers, mufflers, and tail pipes on automobiles, boilers, stoves, furnaces and barbecues.

- Strength increases with heat.
- No mixing multiple components.
- Can be sanded and machined when cured.
- Will not rust or oxidize.
- Resistant to chemicals, and corrosion.
- Can be formed and shaped.
- Ideal for making permanent repairs while on the road, and in remote locations also as an emergency repair product for the tool box, car, truck, tractor, and shop.
- Environmentally safe to use.
- Hands and equipment can be cleaned up with soap and water after using.
- 95% cure at room temperature within three hours maximum of applying. 100% cure within 24 hours, or in 15 minutes when heat is applied.
- Can be applied using a spatula, putty knife, caulking gun, or by hand.

Part No. 811211 6
3 oz. net weight

CRC MINUTE MEND EPOXY STICK

Permanently patches dings, scratches, holes and gouges in:
- Metal Drums.
- Tanks.
- Pipes.
- Castings.
- Molds, and other industrial equip.

Excellent for marine or "in-water" repairs to:
- Boat Decks & Hulls.
- Pools.
- Spas.
- Sinks.
- Water Tanks.
- Leaky Gaskets.

Bonds tenaciously to:
- Wood.
- Concrete.
- Metal.
- Glass.
- Ceramic.
- Fiberglass.

Part No. 811150
4 oz. Net Wt.
7" long, 1" diameter

Great for repairing:
- Down Spouts & Gutters.
- Ductwork.
- Electrical Connections.

- Fast, convenient, easy to use.
- Hardens in 20 minutes, cures to full strength in 24 hours.
- After 45 minutes, it can be tapped, sawed, drilled, machined, stained or painted.
- Bonds to damp or wet surfaces and can even be applied under water.
- USDA approved.
- Ideal for use in areas where welding is impossible.

TECHNICAL DATA: 12,000 PSI Compressive Strength 6,000 PSI Tensile Strength Color: Black after cure

HI-TEMP FASTEEL EPOXY STICK

Permanently repairs:
- Engine Blocks.
- Manifolds.
- Exhaust Pipes.
- Mufflers.
- Radiators.
- Gaskets.

Will also repair:
- Batteries.
- Plastic & Metal Grilles.
- Gas Tanks.
- Fastener Mounting Holes.

Excellent for:
- Hot Water Pumps.
- Pipes.
- Heating Systems.

Practically any higher temperature use.

Part No. 811151 3
2 oz. Net Wt.
3" long, 1" diameter

- Withstands temperatures up to 500°F, more than 150° higher than other epoxies.
- Steel filled formula creates extremely tough, durable, rock-hard bond to a wide range of metals and plastics.
- Cures in minutes - can be drilled, filed, tapped or machined in one hour.
- Simply tear off the amount required, knead until color changes completely & apply.

GORILLA™ EPOXY

- Impact resistant, water & solvent resistant.
- Incredibly strong and fastsetting.
- Bonds steel, wood, aluminum, ceramic, tile and 90 % of all plastics.
- Reusable easy to use syringe and mixing tray.
- Cured Color: Light tan

Sets in 5 minutes!

Impact Tough Formula!

Part No. 813268
.85 Fl oz. (25ml)

FAST CURE EPOXY 45

Bonds, seals, repairs door glass, channels, trim, broken plastic grills and cracked or broken castings.

- Contains 10 premeasured mixer cups.
- No mess, no guess, no waste.
- Bonds in 5 to 15 minutes.
- Color - grey.

Part No. 812275
10 cups: net 2g each
Permatex No. 21425

J-B WELD / J-B KWIK

Repairs iron, steel, aluminum, brass, bronze, pewter, wood, porcelain, ceramic and some plastics.

ORIGINAL "J-B WELD"

- Metal filled cold welding compound withstands heat & vibration.
- Full cure in 12 hours.
- 3980 psi tensile strength & heat resistant to 500°F.

Part No. 811195 (12)
2 fl. oz. Tool box size

Part No. 811197
10 fl. oz. Industrial shop size

"J-B KWIK"

- Sets in 4 minutes; full cure 4-6 hours.
- Ideal for general maintenance and emergency repairs.
- 2100 psi tensile strength & heat resistant to 300°F.

Part No. 811196 (12), 2 fl. oz.

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ADHESIVES and SEALANTS

HI-TECH PATENTED DISPENSERS

ALL UNITS
25ml. syringe

HI-TECH INDUSTRIAL EPOXY SYSTEMS

Exclusive dispenser features a patent pending design that makes it easy to dispense and mix the right amount of adhesive for any job. The snap off cap eliminates unsafe cutting of the tube ends, while the handy mixing paddle pops out when you push the plunger in.

60 SECOND CURE EPOXY

Ultra fast setting system. Use for fast fix on most materials.

The quickest setting epoxy you can buy. Waterproof, impact resistant and high strength. Because this product is so fast, we've included a blue dye. When you mix the product quickly, you'll know you're ready to use it when the blue dye disappears (about 15 seconds).

PART	COLOR	SETS IN	FULL CURE	STRENGTH
811209	Clear	60 seconds	1 hour	1250 psi

5 MINUTE CURE EPOXY

Rapid cure system. Bonds metal and glass.

When you need more working time and you need a strong crystal clear bond, the 5 Min. Epoxy System is the right choice.

PART	COLOR	SETS IN	FULL CURE	STRENGTH
811204	Crystal Clear	5 minutes	1 hour	1500 psi

5 MINUTE CURE GEL EPOXY

Rapid cure system. Will not sag on vertical surfaces.

The 5 Min. Gel Epoxy System will not drip or sag. Ideal to use on vertical surfaces. Use to fill voids and cracks in metal, wood and concrete.

PART	COLOR	SETS IN	FULL CURE	STRENGTH
811205	Cream	5 minutes	1 hour	2500 psi

HIGH STRENGTH CLEAR EPOXY

High strength. Clear curing system. Water resistant.

When 5 minutes is not enough working time, Clear Weld sets up in 30 minutes, forming a high strength clear weld. Clear Weld resists most liquids and is waterproof.

PART	COLOR	SETS IN	FULL CURE	STRENGTH
811206	Crystal Clear	30 minutes	8 hours	2500 psi

HIGH STRENGTH STEEL FILLED EPOXY

Works great on all metals. Water resistant. Contains steel.

Steel Weld forms a high strength chemical weld on most metals. Steel Weld actually contains steel and works on steel, aluminum, brass, copper, glass, wood and concrete.

PART	COLOR	SETS IN	FULL CURE	STRENGTH
811207	Black	2 hours	16 hours	25000 psi

HIGH STRENGTH PLASTIC BONDING EPOXY

Forms a powerful bond between all hard plastics. O.E.M. approved.

Simply the strongest product to use on most plastics. Made from space age methacrylate technology, Plastic Welding System sets up in 15 minutes forming a super high strength bond (3500 psi). O.E.M. APPROVED. Excellent for bonding plastic or metal.

PART	COLOR	SETS IN	FULL CURE	STRENGTH
811208	Off-White	15 minutes	1 hour	3500 psi

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ADHESIVES and SEALANTS

ULTRA BLACK R.T.V. SILICONE GASKET

For dealership warranty requirements, ensures extended drivetrain warranty compliance.

- Fast-curing formula.
- Sensor-safe, low odor, non-corrosive.
- Meets performance specs. of OE silicone gaskets.
- Retains high flexibility, oil resistance properties through use of a patented adhesion system.
- Temperature range -75°F to 600°F intermittent; resists auto and shop fluids and vibration.

PART NUMBER	SIZE	PERMATEX
812381	3.35 oz. tube	82180
812380	8.75 oz. aerosol	82080
812382	13 oz. cartridge	24105

ULTRA GREY R.T.V. SILICONE GASKET

For high torque applications (predominantly Japanese designs) requiring a unique RTV gasket.

- Exceeds manufacturers performance requirements.
- Low odor and non-corrosive.
- Outstanding oil resistance.
- Guaranteed not to leak.
- Temperature range -65°F to 650°F intermittent; resists auto and shop fluids and vibration.

Suggested Applications:
Valve covers, oil pans, intake manifold end seals, timing covers, water pumps and thermostat housings.

PART NUMBER	SIZE	PERMATEX
812384	3.35 oz. tube	82194

MCKANICA POWER CAN SILCONE SEALANTS

AUTOMOTIVE

The sealant bonds all types of joints and replaces gasket material including: rubber, paper, felt & cork, (unsuitable for head gaskets).

All can be used on: water pumps, water neck outlets, transmission pans, valve covers, cam covers & oil pans.

- Controllable.
- Easy to use.
- No more waste.
- Finger tip control.

A silicone dispenser that stops silicone hardening in the tube.

BLUE
Resists Temperatures up to 400°F
Part No. 810304
6.7 fl. oz.

BLACK
Resists Temperatures up to 450°F
Part No. 810300
6.7 fl. oz.

High-Temp RED
Resists Temperatures up to 650°F
Part No. 810298
6.7 fl. oz.

GRAY
Resists Temperatures up to 625°F
Part No. 810310
6.7 fl. oz.

High-Temp COPPER
Resists Temperatures up to 700°F
Part No. 810312
6.7 fl. oz.

AUTOMOTIVE / MARINE

Flows easily under pressure control making all caulking jobs easy and quick. It resists corrosion from oil, salt water and anti-freeze.
It is a universal sealant for all caulking jobs around the boat and auto and can be used externally or internally.
N.B. Not suitable for under water line repairs.
Not Sensor Safe.

- 100% Silicone.
- Mildew proof.
- Adheres to fabric.
- Withstands Salt Water.
- Endures sunlight.
- Watertight seal.

CLEAR SEALANT
Part No. 810302
6.7 fl. oz.

WHITE SEALANT
Part No. 810314
6.7 fl. oz.

R.T.V. SILICONE GASKET

SENSOR SAFE - THE ORIGINAL BLUE SILICONE

Seals valve covers, oil pans, timing covers, water pumps, thermostat housings and transmission pans.

- Will not foul oxygen sensors.
- Replaces almost any cut gaskets.
- Makes reliable "formed-in-place" gaskets that resist cracking, shrinking and migrating.
- Coats pre-cut gaskets to increase reliability.
- Temperature range -65°F to 500°F intermittent; resists auto and shop fluids.
- First generation 1980-1970 gasket maker.

PART NUMBER	SIZE	PERMATEX
812259	3 oz. tube	6BR 80022

R.T.V. SILICONE GASKET

NO LEAK - ULTRA BLUE SILICONE

Seals valve covers, oil pans, timing covers, transmission pans and differential covers.

- Ultra silicones were developed to meet today's technology changes.
- Sensor-safe, low odor and non-corrosive.
- Outstanding oil resistance and joint movement values.
- Eight times more flexible than cork/composite gaskets.
- Three times more oil resistant than conventional silicones.
- Temperature range -75°F to 500°F intermittent; resists auto and shop fluids and vibration.

PART NUMBER	SIZE	PERMATEX
812388	3.35 oz. tube	77BR 81724

R.T.V. SILICONE SEALANT HI-TEMPERATURE

ULTRA COPPER

Used on exhaust manifolds/headers, valve covers, oil pans, timing covers, water pumps, thermostat housings.

- The most advanced, high temperature RTV silicone gasket available.
- Sensor-safe, low odor and non-corrosive.
- Superior adhesion.
- Three times more oil resistant than conventional silicones.
- Eight times more flexible than cut gaskets.
- Temperature range -75°F to 700°F intermittent; resists auto and shop fluids and vibration.

PART NUMBER	SIZE	PERMATEX
812360	3 oz. tube	101BR 81878

R.T.V. SILICONE SEALANTS

CLEAR SILICONE

Seals windshields, door frames, electrical connections, vinyl tops, seams and roofs.

- General purpose, clear RTV indoor/outdoor sealant.
- Protects and repairs electrical wiring.
- May be applied to horizontal or vertical surfaces.
- Water-proof and flexible.
- Temperature range -80°F to 450°F; resists oil, water, weather, vibration and grease.

PART NUMBER	SIZE	PERMATEX
812271	3 oz. tube	66BR 80050

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R.T.V. SILICONE SEALANT HI-TEMPERATURE

SENSOR SAFE - ORANGE

Used on valve covers, oil pans, timing covers, water pumps, thermostat housings and transmission pans.

- Formulated for oxygen sensor equipped engines, hi-temp applications.
- Replaces almost any cut gasket.
- Makes reliable "formed-in-place" gaskets that resist cracking, shrinking and migrating caused by thermal cycling.
- Coats pre-cut gaskets to increase reliability.
- Temperature range -75°F to 650°F intermittent; resists auto and shop fluids.

PART NUMBER	SIZE	PERMATEX
812287	3 oz. tube	27BR 81422

PERMATEX® THE "RIGHT STUFF"

Eliminates cut gaskets of any size or shape. New technology gasket material permits testing immediately after assembly - no waiting to cure.

For valve covers, oil pans, thermostat housings, water pumps, rear covers, timing covers, side cover plate, OHC cap, rear main bearing split line, intake end seals and gear boxes.

- Fleet tested - no leaks in over a million miles of tests.
- Protects against leaks - makes gaskets that are more reliable and longer lasting than cut gaskets.
- No cure delay - vehicle can immediately be put in service.
- One container makes approx. 8 - 10 four cylinder valve cover gaskets at a fraction of the cost of cut gaskets.
- Temperature range to 550°F continuous, 600°F intermittent.
- Resists oil, coolant and ATF.
- Sensor-safe.
- Color: Black.

10 oz. Cartridge | 7.5 oz. PowerBead Can | 5 oz. Cartridge | Aerosol

Caulking Gun

Specified by:
Chrysler: GF44-A GM: 998-5990
Ford: WSE-M4G323-A6

PART NUMBER	SIZE	PERMATEX	QTY
812358	4 oz. (113.4g) aerosol dispenser	25223	6
812357	5 oz. caulk gun cartridge	29208	6
813284	7.5 oz. powerbead can	85224	6
813272	10 oz. caulk gun cartridge	33694	6
213337	Right Stuff caulking gun	29247	

PERMATEX® THE "RIGHT STUFF" for IMPORTS

Designed especially for the conditions of import particularly, import Japanese vehicles. Performs under higher torque loads caused by engines with closely spaced bolt patterns.

- Instant - seals in one minute.
- Reliable - creates long lasting elastomeric rubber gasket.
- Resistant to hot oil, coolant and ATF.
- OEM approved by major import manufacturers including, Honda, Nissan, Hyundai, Mazda, and Mitsubishi.

10 oz. Cartridge

5 oz. Cartridge

PART NUMBER	SIZE	PERMATEX	QTY
813274	5 oz. caulk gun cartridge	34311	6
813273	10 oz. caulk gun cartridge	34310	6

ANAEROBIC GASKET MAKER

Used on water pumps, thermostat housings, transmission pan, transmission case cover, transaxle casings, o-ring replacement.

- Non-corrosive gasketing material designed primarily for use on aluminum, iron, and steel flanged mating surfaces.
- Ideal for on-the-spot and emergency repairs, or when a conventional gasket is unavailable.
- Fills gaps up to .015". Cures to a solvent resistant seal that will not tear or decay during service.
- Parts disassemble easily even after extended service.

PART NUMBER	SIZE	PERMATEX
812387	50 ml. tube	51813

HI-TEMPERATURE R.T.V. SILICONE GASKET MAKER

RED

Used on valve covers, oil pans, timing covers, water pumps, thermostat housings.

- OEM specified.
- Formulated for hi-temp applications, or heavy-duty use (such as towing, etc.).
- Replaces almost any cut gasket by making reliable "formed-in-place" gaskets that resist cracking, shrinking & migrating caused by thermal cycling.
- Coats pre-cut gaskets to increase reliability.
- Temperature range -65°F to 650°F (-54°C to 343°C) intermittent; resists auto and shop fluids.

PART NUMBER	SIZE	PERMATEX
813282	3 oz. tube	81160

PERMATEX® SUPER GLUE

This formulation was specially designed for a faster, long-lasting bond.

- It is easily applied and works on non-porous materials including metal, plastics, rubber, vinyl, paper, wood and textiles.
- Permanent, transparent bond fills gaps to .004".

Suggested Applications:
Automotive trim, logos, knobs, gear shift logos, minor interior repairs.

PART NUMBER	SIZE	PERMATEX
813269	2 g. tube	82190

PERMATEX® SUPER GLUE GEL

This non drip gel formula "stays put" for precise application on hard-to-reach, overhead,, or vertical surfaces.

- This permanent, transparent bond is easily applied and works on both porous and non-porous materials including metal, rubber, glass, aluminum, vinyl, ceramics, alloys and plastics.
- Fills gaps to ,004".

Suggested Applications:
Automotive trim, logos, knobs, gear shift logos, minor interior repairs.

PART NUMBER	SIZE	PERMATEX
813271	2 g. tube	82191

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ADHESIVES and SEALANTS

3M ULTRAPRO CLEAR TRIM & EMBLEM ADHESIVE

- Plastic top with brush applicator helps prevent lid from becoming stuck to the bottle.
- A clear, colorless adhesive for use on emblems, mouldings, weatherstrip, carpet, fabric, etc.
- Provides fast tack and excellent adhesion.
- No clotting or stringing.
- Sag resistant.
- Won't harm cured paint.
- Waterproof.

Part No. 211351
1 pint bottle
3M No. 08063
(Clear)

3M SUPER WEATHERSTRIP ADHESIVE

Part No. 908001 (12)
5 oz. tube
3M No. 08001 (Amber)

Part No. 908008 (12)
5 oz. tube
3M No. 08008 (Black)

PERMATEX® SUPER WEATHERSTRIP ADHESIVE

Part No. 812129 (12)
5 oz. tube
Permatex No. 81731 (80)
(Amber)

Part No. 812130 (12)
5 oz. tube
Permatex No. 81850 (82)
(Black)

OUR SUPER WEATHERSTRIP ADHESIVE

- Handiest adhesive there is for bonding weatherstrip to doors or trunk lids.
- Thin bodied, spreads easily.
- Same top quality at a significant savings.

TOP TEN SELLER

Part No. 812370 (12)
5 oz. tube
(Amber)

ANAEROBIC FLANGE SEALANT

Used on water pumps, thermostat housings, transmission pan, transmission case cover, transaxle casings, o-ring replacement.

- Flexible, gasketing material for use on rigid machined flanges with less than .015" gap.
- OEM approved - use where OE's specify "anaerobic" gasket (cures in the absence of air).
- Eliminates preformed, pre-cut, paper, rubber and cork gaskets.
- Flexes with flanges that move in service.

Part No. 813275
50 ml. tube
Permatex No. 51531

271 HIGH STRENGTH THREADLOCKER - RED

TOP TEN SELLER

- Locks Studs, Bushing, and large fasteners against loosening and wear.
- Retains bearings, preventing spinout.
- Strengthens slip and light press fits.
- High strength: heat or special tools required for disassembly.

PART NUMBER	PERMATEX NUMBER	SIZE
812267	27140	36ml.
812286	27100	6ml.

242 THREADLOCKER - BLUE

- Medium strength - removable - no lock washers or lock nuts needed.
- Positive locking of threaded fasteners - nuts, bolts, and screws.
- Seals against air, fuel, and hydraulic leaks.
- Restores fit to worn parts.

36ml.
plastic bottle

PART NUMBER	PERMATEX NUMBER	SIZE	COLOR
812266	24240	36ml.	Blue
812285	24200	6ml.	Blue

URETHANE AUTO GLASS SEALANT

A one part urethane adhesive sealant for bonding windshields, backlites and quarter windows.

Part No. 211328 (6)
Net. wt. 11 fl. oz. cartridge
3M No. 08609

- Substantially stronger than butyl.
- Each cartridge will install two windshields.
- Easy handling and fast setting properties.
- For re-installation, urethane bonds & seals to original factory installed urethane sealant.
- Color: Black.

3M SINGLE STEP PRIMER

- Single Step Primer for auto body windshields to promote urethane adhesion to the windshield; can also be used to touch pinchweld scratches and to primer encapsulated glass.

Part No. 908681
Net. wt. 125 ml.
3M No. 08681

3M FAST 'N FIRM SEAM SEALER (Caulk Gun Cartridge)

Is a firm setting product for sealing interior and exterior joints.

Part No. 908505
Net wt. 10 oz.
Fits 1/10 gallon caulk gun
3M No. 08505

- Adheres well to clean, bare metal, primed metal and painted surfaces.
- Skins over in quickly, can be painted in 30 minutes.
- Has excellent tooling and sanding properties and exhibits low shrinkage and good resistance to weathering after cure.
- Also ideal as general purpose water and dust sealer.
- Will withstand mild forced drying.
- Color: Beige.

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ADHESIVES and SEALANTS

3M STRIP CALK

For sealing openings in the car where a soft non-hardening material is needed.

- **Good for use in seams, cracks in joints, trunks, cracks around pillar posts, cowling and windshields.**
- **Strip-Calk is waterproof, will not shrink, requires no application tools, and can be painted.**
- **Color: Black.**

Part No. 908578
1 ft. lengths, 60 per box
3M No. 08578

TACK & BOND

GASKET ADHESIVE

- **Super sticky, high strength, quick drying.**
- **Bonds to metal, cork, rubber, plastic and other automotive materials.**
- **Holds gaskets in place — Even overhead!**
- **Resists water, anti-freeze, gasoline, oil, transmission fluid, brake fluid and grease.**
- **Extension tube creates narrow spray — eliminates overspray and waste.**

Part No. 211323 (12)
Net Wt. 15.75 oz. (447g.)

SUPER BOND

TRIM ADHESIVE

- **Web-like spray pattern eliminates high spots & overspray.**
- **Adjustable spray valve.**
- **Super strong bonds.**
- **Heat, moisture & water resistant.**
- **Bonds carpets, urethane foam insulation, vinyl tops, kick pads, upholstery, headliners, runners, etc.**

Outperforms or Exceeds:
3M 8080, 8090
Rubber-Seal R5-505
Talsol 3410, 3411
Montana SA-360
Crest AA-A
Kent ST-A

NEW IMPROVED FORMULA
High Temperature Rated To 200°F

Part No. 211417 (12)
Net Wt. 15.75 oz. (447g)

DISC BRAKE QUIET

For sealing openings in the car where a soft non-hardening material is needed.

- **Prevents squeal by dampening vibration at caliper/brake pad interface.**
- **Provides a vibration absorbing film.**
- **Resists diesel fuel, ethylene glycol, water, grease and brake fluids.**
- **Works at temperatures from -65°F to +500°F.**

Part No. 13143
Spray-On
9 oz. Net Weight
Permatex No. 127MA

DE-SQUEAK CONDITIONING TREATMENT

Recommended for use on new, old or freshly cut (turned) brake rotors and drums. It is safe for use on all types of brake systems, including ABS.

- **Eliminats harmonic vibrations...fills voids and imperfections in brake surfaces to eliminate vibrations that result in brake noise.**
- **Quick drying...does not interrupt or lengthen brake job.**
- **Prevents rust and oxidation on drums, rotors and lug nuts.**
- **Will not harden due to incorporation of graphite and silica which keeps the product working long after it is applied.**

Part No. 211299 6
Net. Wt. 11.25 oz. (318g.)

TORPEDO Brake Anti-Squeak

"Silences the squealers"

Part No. 211416
Net Contents 8 fl. oz.

- **Applies directly to the face of the disc pad.**
- **Quiets noisy brake pads, stops squeaking and squealing.**
- **Fills voids & pits on pads, producing a surface that gives better braking.**
- **Easy to apply and will not adversely affect the life of the pad.**
- **Recommended for use on old or new pads, metallic, semi-metallic, organic or non-asbestos organic brakes.**

BRAKE FACTS: "Did you know . . ."

- **87 % of all brake job "comebacks" are squeak related.**
- **Grinding of the rotor surface is done from the center to the outer edge, leaving grooves very similar to phonograph records, and this is the biggest cause of high pitched squeaks so common to disc brakes.**
- **TORPEDO reduces the pad's tendency to follow the grooves on the rotor, effectively eliminating this "record effect".**
- **For just a few cents a brake job, you can stop most customer comebacks, which saves time, money and your good reputation.**

SEAL-UP — PERMANENT, METALLIC BLOCK and RADIATOR SEALER

The only permanent block sealer formulated to permanently seal large, small holes and cracks in blocks, heads, head gaskets, water pumps, radiators, heater cores, freeze plugs - any leak within the cooling system of gasoline or diesel engines.

- **SEAL-UP is scientifically treated liquid glass (Sodium Silicate) that is enhanced with copper for maximum, permanent sealing strength.**
- **Seeks out low pressure points and flows into the hole or crack to from a permanent ceramic-metallic weld that is as permanent as a mechanical weld.**
- **Heat & pressure resistant.**
- **Expands & contracts.**
- **Use when rebuilding engines.**
- **Seals all types of metals.**

Part No. 211475 (12)
11.4 oz. net wt.

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ADHESIVES and SEALANTS

BAR'S LEAKS TABLETS

Bar's Leaks has millions of tiny particles to permanently seal leaks in plastic, aluminum and metal radiators, heater cores, blocks, heads, gaskets and freeze plugs. Compatible with all brands of anti-freeze, including extended life. (Green and Orange) Lubricates water pump seal and inhibits the formation of rust and scale.

- Same patented concentrate as used world wide by car and truck manufacturers to protect against cooling system leaks.
- Use two tablets per gallon of coolant.
- 6 tablets per card, 12 cards per box.

Part No. 211537 12

HEAVY DUTY RADIATOR STOP LEAK

UNBEATABLE LEAK PROTECTION FOR: Radiators, Cylinder Heads, Freeze Plugs, Heater Cores, Hoses, And More

- Mixes With Any Antifreeze.
- Compatible With All Modern Cooling System Materials.
- Leak Stopper is a Metallic sealer with a carrying agent that stays in suspension until carried to the leaking area. These metallic particles form a bridge, held together with a binder which activates when exposed to the atmosphere.
- Ten minutes of engine operation completes the sealing cycle.

Net Weight 3/4 oz. (21g) per tube

Part No. 13123
Contains 24 tubes

IGNITION SEALER

- Fast drying, clear coating.
- Waterproofs and insulates all ignition and electrical systems.
- Use on ignition wires, distributor cap, coil and other electrical components.
- Renews cracked or damaged insulation.
- Insulates bare wires and connectors.

Part No. 13115 (12)
Net Wt. 6 oz.
(170g)

MUFFLER CEMENT

Used to seal regular and catalytic exhaust connections.

- Iron reinforced — spreads like putty — hardens like metal.
- 1 lb. shop size tube.
- Eliminates leaks and comebacks.
- Makes installations easier.

Part No. 211470 6
16 oz. net wt. tube

BULLSEYE™ WINDSHIELD REPAIR KIT

Saves hundreds on unnecessary windshield replacement

- Repairs stone damage on most types of laminated windshield glass up to 1" diameter.
- Makes crystal clear repair in 30 minutes.
- No mixing or special tools required.
- Not recommended for severe star damages or cracks.
- Kit contents will make one repair.

Part No. 812352
.17 fl. oz.
Permatex No. 16067

FUEL TANK REPAIR KIT

- Makes quick, permanent repairs to leaks in all types of metal fuel tanks, without the dangerous welding.
- Repairs cracks up to 4" (10cm) long and holes up to 3/8" (9mm) in diameter.
- Ideal for cars, light trucks and commercial vehicles.
- **NOT FOR USE** on **PLASTIC** fuel tanks.

Part No. 812378
Kit contains: Epoxy Pouch - Net Wt. 1.05 oz. (30g), Sandpaper - 2" x 4" (5cm x 10cm), Fiberglass Cloth - 2" x 5" (5cm x 10 cm), 1 Application Brush, mastic - Net Wt. .09 oz., 1 Alcohol Towelette, 1 Instruction Sheet.

REAR VIEW MIRROR ADHESIVES

- Remounts mirror brackets to windshield in seconds.
- Each repair kit bonds one mirror bracket.
- 60% strength - 3,000 psi in two minutes.
- Easy clean-up.

Net .03 fl. oz. size also available in **Permatex™ Brand** order
Part No. 812230
Permatex No. 81844

Part No. 811214
Net .03 fl. oz.

Part No. 812265
Net 6 ml bottle
Permatex No. 3346

HEADLIGHT LENS RESTORATION KIT

- Works on most plastic lighting lenses to restore *LIKE* – clarity, improving light output and appearance.
- Kit provides everything you need to complete the restoration, including simple step-by-step instructions.
- Higher grit number means finer finish.

Part No. 812373
Kit contains: Plastic Restoration Polish - Net 1 fl. oz. (30ml), 4 Industrial Grade Wet/Dry Sandpaper Sheets (1000, 1500, 2000 & 2500 grits), 1 Polishing Cloth, 1 Instruction Sheet & 1 Pair Disposable Gloves.

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MRO CLEANERS

CONQUEST

100% Natural Citrus Cleaner & Degreaser Concentrate

Engine degreaser, carpet and upholstery spot and stain remover, unclog drains and grease traps, clean grills, and ovens, removes decals, tar, asphalt, tire marks and printers ink.

- Contains D'Limonene - a safe, natural citrus based solvent.
- Contains no acids, no caustics or corrosives. Non-carcinogenic.
- Emulsifies in water. Totally biodegradable.
- All-purpose cleaner. Dilute for normal use, or use straight for extra strength.
- USDA accepted, C-1.

Part No. 211405
1 qt. container

Part No. 211405G1 4
1 gallon container

Part No. 211405G5
5 gallon container

CITRA-CLEAN AEROSOL

High Foaming Citra Clean Aerosol

Part No. 211451 (12)
15 oz. net weight (425g)

Fast Flushing Citra Clean II Aerosol

Part No. 211452 (12)
18 oz. net weight (510g)

PURPLE-PRO™ CONCENTRATE

A super concentrated, premium grade, liquid cleaner that attacks dirt, grease and grime on any surface.

● Biodegradable ● Noncombustible ● Nontoxic ● Powerful

VERSATILE - Purple Pro™
can be used straight as an efficient wax stripper, garage bay floor cleaner etc., or mixed up to 15 to 1 for easy cleaning of linoleum, asphalt, rubber, vinyl, etc.

POWERFUL - Purple Pro™
contains premium-grade cleaning agents designed for fast & easy removal of dirt, grease & grime from all surfaces.

● Institutional ● Industrial ● Automotive

Part No. 211200 (12)
32 fl. oz. (946 ml.)

Part No. 211200G1 (6)
1 gallon container

Part No. 211200G5
5 gallon container

Common uses: Full strength (FS) or dilute (Water: Purple-Pro™)

AUTO		MARINE	
• Tires (FS)	• Rubber mats 10:1	• Engines (FS)	• Decks 10:1
• Engines (FS)	• Dashboards 10:1	• Algae 5:1	• Chrome 15:1
• Underbody (FS)	• Carpet 10:1	• Fiberglass 5:1	• Bilge areas 5:1
• Vinyl seats 10:1	• Chrome 15:1	• Vinyl seats 10:1	

INDOOR		OUTDOOR	
• Showers/tubs 5:1	• Counter tops 15:1	• Pressure washing (FS)	• Rubber 10:1
• Appliances 5:1	• Sinks 15:1	• Concrete (FS)	• Tools 5:1
• Carpet 15:1	• Linoleum 15:1	• Asphalt 10:1	• Plastics 10:1
• Vinyl/tile floors 10:1	• Machinery 5:1	• Equipment (FS)	• Tile 10:1

ALUMINUM BRIGHTENER CONCENTRATE

Fast acting formula cleans all aluminum in 2 easy steps: Simply spray on and hose off.

ADVANTAGES
- Brightens all aluminum.
- Easy-to-use one-liter jug.
- Can use full strength for heavily oxidized aluminum or dilute with water for normal oxidized conditions.
- Fast acting.
- Spray on / rinse off.
- Convenient-to-use spray nozzle.
- Thick foaming action.
- Leaves no residue on cleaned surface.
- Available in bulk.

Part No. 211222 4
Net 1 Liter (1.0567 qts.)

NOTE: Oversize container contains 1 liter concentrate, allows room for dilution as required by instructions.

STAINLESS STEEL CLEANER/POLISH

Cleans any Stainless Steel, Chrome, Aluminum.

- Cleans & polishes without leaving a greasy residue.
- Sprays in a light foam that clings to any vertical surface.
- Soaks in and penetrates dirt, grease, fingerprints, etc.

Cleans and shines in one application.

FDA Accepted

Part No. 211342
18 oz. net weight

FASTBALL ALKALINE CLEANER/DEGREASER

A fast acting, aggressive, alkaline, butyl based degreaser, cleaner and deodorizer in one product.

● Industrial Grade ● Rinses Easily - Leaves No Film ● Non-Hazardous

Comes in two formulas:
Highly Concentrated Formula (the dilution depends on the job) and Ready-To-Use Formula for quick spray & go applications.

- Industrial grade and formulated to quickly and effectively penetrate, break up and remove stubborn oil, grease and tough soils.
- Designed to work even in hard water.
- Great to use for equipment degreasing, vent hoods & ducts, oil spills, floor cleaning, garbage containers, concrete pads, floor drains, waste receptacles, asphalt pavements, floor wax stripping, pressure washing trucks, washing coils, detailing engines and more!
- A multi-purpose product for a wide variety of applications, eliminating the need to stock several different solvents and cleaners.

DON'T USE ON ALUMINUM

Part No. 44447
1 qt. spray bottle

Part No. 44447G1
1 gallon container

Part No. 44447G1-4
4 gallon containers/case qty.

Part No. 44447G5
5 gallon pail

Part No. 44447G55
55 gallon drum

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MRO CLEANERS

CRYSTAL CLEAR

- Designed to remove dirt, grease & grime on hard surfaces.
- Heavy duty foam clings & penetrates soils.
- No dripping, running or build-up on surfaces.
- Especially great in body shops since it is ammonia & silicone free.
- Cleans, restores and shines.

Ammonia & Silicone FREE

Part No. 211629 (12)
19 oz. net weight (538g)

GLASS CLEAR

Does not streak!!

- Cleans surfaces fast and easy through foaming action.
- Just spray it on and wipe it off immediately for sparkling clean surfaces every time.
- Leaves no sticky film to attract dirt and is non-staining.
- Contains ammonia for effective grease cutting.
- Cuts dirt and grime, removes smoke film.

TOP TEN SELLER

Part No. 211301 (12)
19 oz. net weight (538g)

CLING 'N CLEAN

Spot-Free Glass & Surface Cleaner with Odor Neutralizer

Ideal for vertical surface cleaning!

FEATURES	BENEFITS
Non-ammoniated, clinging formula and ready to use.	Wipes off quickly without streaks or rainbows.
Multi-surface cleaner.	Drys crystal clear.
Quickly removes dirt, grease and grime.	Prevents fingerprints & smudges.
Neutralizes and eliminates odors.	Clinging formula helps eliminate waste and saves money.
	Leaves a pleasant citrus crème fragrance.

Part No. 211591 (12)
QUART SIZE (32 oz.)

CONTAINS NO CFCs WHICH DEPLETE THE OZONE LAYER — NO CFCs

RECYCLE RENEW REUSE

AIR JET DUST CLEANER

Removes dust, lint and all particulate matter from sensitive instruments, cameras, keyboards, computers and other precision equipment.

- An inert, dry gas - contains no CFCs.
- Safe on all plastics and elastomers.
- Non-toxic, odor free, leaves no residue, moisture free, non-flammable.
- Includes extension tube for hard-to-reach places.

Part No. 211125 (12)
CRC No. 05185
10 oz. net wt. (284g)

GEL VANDAL MARK REMOVER

- Clings to vertical surfaces - will not run.
- Emulsifiable - wipe off with cloth or rinse off with water.
- Dries quick and residue free.
- Safe on most surfaces, porous and non-porous. May soften some plastics and paints, test first.
- Use to remove: Lipstick • spray paint • inks • scuff marks • adhesives • decals • tape marks • glue • pencil

Part No. 211467 (12)
14-3/4 oz. net weight (418g)

GEL GRAFFITI REMOVER

EXTRA STRONG! Use only on unpainted porous surfaces.

- Quick acting.
- Highly concentrated.
- Removes what others won't.
- Thick gel formula clings and penetrates porous surfaces.
- Use on: Brick • block • concrete • slate • terrazzo • marble • granite

Part No. 211103 6
19 oz. net weight (538g)

SPRAY NINE® DISINFECTANT

Hospital Grade EPA Registered Disinfectant!

Eliminates harmful viruses (30 seconds), bacteria (45 seconds) and fungi (3 minutes) from hard, non-porous surfaces. Also helps control mold and mildew and destroys bacterial odors.

PART NUMBER	SIZE
211598	24 oz. pump spray
211596	32 oz. trigger spray
211597	1 gal.

SANITIZE DISINFECTANT and DEODORIZER

For industrial, janitorial and institutional use. Also for hotels, apartments, hospitals, nursing homes, schools, offices and homes. Disinfect telephones, doorknobs, linen carts, hampers, wheel chairs, tables, cabinets, light switches, garbage pails and sinks. Also use to deodorize garbage storage, restrooms, and shower stalls.

- Disinfectant and deodorizer.
- Spray on surfaces or into air.
- Bactericidal/fungicidal - kills germs of bacteria and fungus, controls mildew.
- Saves time - just spray and wipe, needs no rinsing.

Part No. 211450 (12)
15 oz. net weight

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MRO CLEANERS

BIO FOAM
Enzymatic Foaming Coil Cleaner

A portable, non-acid, foam cleaner that blasts deep into air conditioner, heater, refrigeration and dryer coils to loosen and remove grease, dirt, lint and grime.
Contains LIVE bio-enzymes for continuous cleaning and breakdown of organic coil contaminants. May be flushed off with water or left on fins without rinsing. Helps maintain optimum unit efficiency. Deodorizes as it cleans, leaving the area with a fresh clean scent.

- **Increases air flow and unit efficiency.**
- **Regular use helps save energy.**
- **Non-flammable spray.**
- **Helps keep drip pans and drain lines clean, free flowing and odor free.**

MADE IN THE U.S.A.

Part No. 211627
18 fl. oz. (1 lb. 2 oz.)
(510 grams)

"FAST FLUSH" COIL & FIN CLEANER

Convenient, fast acting flush blasts away dirt, grease & grime from coils, fins and filters found on air conditioners, refrigeration units, ice machines, cooling towers, heat pumps, heat exchangers, radiators and condensers.

- **No need to disassemble units.**
- **Spray on, walk away.**
- **No water rinse needed.**
- **Non-acidic, non-corrosive.**
- **Cleans both sides - condenser or evaporator.**
- **Clean units run at peak efficiency, consume less energy and cool faster.**

Part No. 211464 (12)
18 oz. (510g) (1 lb. 2 oz.)

GREZ-OFF® HEAVY DUTY DEGREASER

A biodegradable, water based cleaner that effectively removes heavy duty grease and dirt.

Ideal for:

- **Engines.**
- **Machinery.**
- **Workbenches.**
- **Garage floors/walls.**
- **Asphalt.**
- **Condense coils.**

Part No. 211600 (12)
32 oz. pump spray bottle

MAGNUM
Heavy Duty Industrial Foam Degreaser

Biodegradable • Water Soluble

- **Heavy duty powerful" foam gun" spray clings to surfaces.**
- **Contains ultra fast, super powerful, grease dissolving agents and detergents.**
- **Provides extended degreasing contact time.**
- **Quickly breaks down grease and grime.**
- **Easy clean up - may be flushed away.**

Part No. 211628
Can Size 20 oz.
Net Weight 16 oz. (453 g.)

ELECTRO-SOLV

Concentrated Contact point cleaner

Restores and maintains original precision and efficiency of contacts, electric switches and relays.

- **Instantly removes grease, dust, oil and oxidation.**
- **Eliminates noise and interference by dissolving oxidation and dirt on electronic equipment contacts.**
- **Cleans and penetrates surface pores and leaves a microscopic film for protection against future corrosion.**
- **Not recommended for use on plastics.**

Part No. 13126 (12)
1 lb. 4 oz. net wt. (567g)

DE-SOLV-IT

Engine and Equipment Degreaser

Degreases engines and equipment.

- **Specially formulated to remove dirt, grease and oil from all mechanical engines, machinery, tools and even greasy floors.**
- **Simply spray on DE-SOLV-IT - it penetrates through layers of dirt, grease and grime, down to the metal itself.**
- **Biodegradable formula emulsifies grease and oil.**

Part No. 13111 6
1 lb. 2 oz. net wt. (510g)

ELECTRIC MOTOR DEGREASER

New generation safety solvent degreaser removes dirt, grease and grime. Powerful spray flushes away contaminants from motors, electronic equipment, generators, compressors, power tools, pumps, fans, relays, etc.

- **Non-flammable.**
- **Non-conductive.**
- **Cleans and dries quickly.**
- **Leaves no residue.**
- **May be used on motors while running.**
- **Will not harm wires or insulation.**

Part No. 13125
1 lb. 4 oz. net wt. (567g)

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MRO CLEANERS

CRC® QUICK CLEAN Non-flammable (Safety Solvent) Cleaner/Degreaser

A non-flammable, non-ozone depleting alternative to 1,1,1, trichloroethane that is just as effective.

- **Evaporates quickly and leaves no residue.**
- **Non-staining and non-corrosive.**
- **Extremely effective solvent for cleaning and degreasing dirty, corroded equipment.**
- **Authorized by the USDA for use in federally inspected meat and poultry plants.**
- **Dissolves grease, oil and sludge quickly for more efficient operation.**

Patented MSD[L]™ Label!

TOP TEN SELLER

Part No. 211551 (12)
19 oz. net wt. (539g)
(Contents 20 fluid oz.) (CRC #03180)

CRC QD™ ELECTRONIC CLEANER

An excellent precision cleaning solvent that instantly removes oil, grease, dirt, flux and other contaminants on contact. Instantly penetrates hard-to-reach areas in electronic components and contacts. Evaporates quickly and completely. Regular use helps prevent contact malfunction.

- **Instantly removes dirt, oil and grease.**
- **Helps prevent contact failure or malfunction.**
- **Evaporates quickly, leaves no residue.**
- **Harmless to most plastic and paper tapes.**

Part No. 211553 (12)
11 fl. oz. net wt. (312g)

CRC No. 05102
*This product is EXTREMELY FLAMMABLE.
Do not apply while equipment is energized.

LECTRA-MOTIVE® ELECTRIC PARTS CLEANER

Non-Flammable Formula.

- **Aggressive cleaner specifically for electric motors, transformers and machinery.**
- **Non-flammable formula dissolves grease, oil, dirt and wax.**

Part No. 211580 (12)
19 oz. net weight
(CRC05018)

CRC® HEAVY DUTY DEGREASER

Dissolves grease, oil, corrosion and silicone on mechanical brake & clutches, motors, dies & molds, bearings, generators and compressors.

- **Has no flash or fire point.**
- **Evaporates fast and leaves no residue.**
- **Non-conductive, non-corrosive, non-staining.**
- **Authorized by USDA for use in federally inspected meat and poultry plants.**

Part No. 211570 (12)
CRC No. 03095
19 oz. net wt. (538g)

Patented MSD[L]™ Label!

CLEANER DEGREASER NO. 377

- **Quick penetrating formula dissolves grease and oil.**
- **Restores bright appearance to car engines , machinery, lawn mowers, fans, grilles, etc.**
- **Removes tar and oil without harming the car finish.**

Part No. 211555 (12)
16 oz. net wt. (454g)

VELOUR & CARPET CLEANER and SPOT REMOVER

Removes spots & stains from carpet, velour and upholstery.

- **Safe on all fibers.**
- **Dissolves soiled spots in minutes.**
- **Leaves no circle or ring.**
- **For all automotive or industrial applications.**

TOP TEN SELLER

Part No. 211334 (12)
18.75 oz. net weight (532g)

CHEWING GUM REMOVER

Removes chewing gum, candle wax, putty, gummy candy and more.

- **Works great on carpets, upholstery, vinyl, leather, fabrics, plastics, glass and metal.**
- **Instantly freezes material to be removed.**
- **Will not harm or stain surfaces.**
- **Leaves no residue.**
- **Contains NO CFC'S or Ozone depleting ingredients.**

Part No. 211466 12
6-3/4 oz. net weight (191g)

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CLEANERS & HAND CLEANERS

Knockout those tough cleaning jobs with Kapow Towels

Kapow Towels are heavy duty pre-moistened cleaning towels.
Kapow consists of specially formulated dissolving agents for grease and grime.
They also have **"Kapow"** beads on one side to provide a slightly rough texture when more cleaning help is needed.

Reasons to use Kapow Towels:

- **No water needed – clean up anywhere.**
- **Convenient size package.**
- **Economical since it replaces cleaners & rags.**
- **Non-flammable .**
- **Safe on your skin – contains vitamin E & aloe**
- **Non-shredding.**

Kapow Towels solve the following cleaning problems:

Odors from hands	Labels & residue	Gasket cement	Tree pitch
Carpet spots	Most graffiti	Paints & varnishes	Plumbers cement
Permanent marker	Caulking	Coffee stains	
Nail polish	Tar & asphalt	Crayon marks	

Dual textured: rough on one side and smooth on the other

Part No. 901035
Size: 9" x 12"
Count: 80 towels

* Pre-testing is recommended on certain plastic surfaces. Do not use on any item with a protective finish.*

Rough Tough® SCRUBS® In-A-Bucket

Waterless Hand Cleaner Towels

Dissolves & Removes:
Dirt, Sealants, Adhesives, Oils, Heavy Grease, Tar, Ink, Paint, Caulk, and much more.

Contains germ-fighting *Triclosan*

Part No. 422072 6
Towel size: 10-1/2" x 12-1/4"
72 Towels per container

This highly-absorbent, non-scratching, pre-moistened, heavy duty towel contains pumice scrubbing power that works fast to loosen, dissolve, absorb and hold residue without redepositing on hands. The result is hands that are clean and protected.

Also try it on: Tools, Equipment, Painted Surfaces, Plastics, Tool Boxes, Work Surfaces, Vinyl, Metal

DRIVEWAY CLEANER DX12

Just Spray Away The STAINS With
This revolutionary new product which effectively cleans an extremely wide range of:
• Oils • Grease • Transmission Fluids •
• And other troublesome contaminants •
From all driveway surfaces with minimal harmful effects on the environment or the surface cleaned.

DX12 is water based and contains no caustics, acids, petroleum solvents or phosphates and it outperforms all of the other harsher and more dangerous driveway cleaners on the market.

DX12 will clean driveways better and deeper than other cleaners in one application, thus saving valuable time and labor expense.

Part No. DX12
Available in quarts, gallons & bulk

WORX ALL NATURAL HAND CLEANER

Super concentrated formula!

The Ultimate "Hands-On" Cleaning Solution for removing Mechanics Grease, Oil & Grime, Fresh Paint, Primers and Wood Stains, Carbon, Soot, and more... On the Job and at the Shop.

- **100% organic and 100% biodegradable.**
- **Cleans and conditions hands.**
- **Lasts longer and more economical.**
- **Ideal for repeated, daily use.**
- **Removes odors.**

Contains NO Petroleum Solvents!

Other uses: *When mixed with water it may be used to clean jewelry, golf grips and clubs, automobiles, showers, floors, sinks, glass mirrors, ceramics, as a bug remover, dish soap, degreaser and laundry detergent.*

PART NUMBER	DESCRIPTION	QTY
111100	1lb. Shaker Bottle	12
111300	4-1/2 lb. Bottle, fits 119999 Dispenser	4
119999	Industrial Dispenser with Shelf	

Part No. 111100
1 lb. shaker bottle

Part No. 111300
4-1/2 lb. bottle

Part No. 119999
Dispenser w/ shelf for 4-1/2 lb bottles

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HAND CLEANERS

3 NEW HAND CLEANERS and UNIQUE DISPENSING SYSTEMS

Part No. 13300

You'll get 1000-ml more capacity with this system. For a total of 5000-ml

Waste-FREE Profit Stream

FEATURES and BENEFITS

- Easy, quick-changing, no-mess Refill Tank empties 100% — NO WASTE.
- Reservoir back-up allows reloading at your convenience.
- System SAVES 30-40% over other systems.
- Time-tested, heavy-duty pump mechanism is guaranteed for life.
- See-through window lets user know when refill can be changed.
- Foil seal on refill locks in freshness and eliminates tampering.
- Snap-in/Snap-out features lock reservoir and refill tank in place.

REFILL ALSO FITS ZEP MANUFACTURING CO.'S D-4000 DISPENSER (ALL MODELS)

SPECIFICATIONS

- System includes: Proprietary, unique patented dispenser, reservoir and mounting plate for use with 4000-ml refill tanks.
- Color: Stay-clean black dispenser and mounting plate; see-through white refill tank and reservoir.
- Capacity: 1000-ml reservoir plus 4000-ml refill tank gives user a 5000-ml system.

HOW DOES IT WORK?

Back-plate is mounted to wall. Dispenser/reservoir unit locks into bottom portion of mounted plate. With soil seal down, align refill with middle and upper tracks on back-plate (Figure 1).
Refill is pushed in and slid down into tracks locking it into position which breaks the foil seal (Figure 2 and 3).
Product flows into reservoir emptying completely during use with NO WASTE. When empty, refill tank can be changed at maintenance personnel's convenience as a full 1000 ml of product will be left in the reservoir. You get 1,444 dispensings from each 4000-ml refill.

Figure 1 Figure 2 Figure 3

ECONOMICAL DISPENSING OPTIONS

Part No. 13302
WALL-MOUNTING PLATE - FOR 4000-ML CONTAINER & 13301 DISPENSER
(Pictured with the Part No. 13301 dispenser).
You can mount the 4000-ml container and Part No. 13301 dispenser to a wall using this easy-to-use, black plastic mounting plate with lock/release lever.

Part No. 13301
DISPOSABLE DISPENSER - FOR 4000-ML TANK
If you prefer not to use our Part No. 13300 Dispensing System for the 4000-ML container, you can use the **Part No. 13301 Pump Top Dispenser.** It gives you a low-cost, portable option for use with our lotion hand cleaners available in the 4000-ML tank.

ZEP #D-4000 DISPENSER

With a 1 Gallon Container

Delivers 729 Applications

4000-ML CONTAINER

Also Fits Zep #D-4000 Dispenser

Delivers 1444 Applications

Our Part No. 13300 Dispensing System is used with a 4000-ML Container

Our NEW 4000-ML Container

10% More Soap Than Competitor's 1 Gallon

OUR HAND CLEANERS

PART NUMBER	DESCRIPTION	COLOR
13311	Titan Hand Cleaner	Forest Green
13312	Gladiator Hand Cleaner	Cherry Vanilla
13313	Citra-Clean Hand Cleaner	Lime Green

Almost Twice As Many Applications As The Zep Dispenser and 1 Gallon Container

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HAND CLEANERS

PUMICIZED TITAN HEAVY DUTY - Hand Cleaner

Pumicized Titan Heavy Duty Hand Cleaner is an ultra heavy-duty quality hand cleaner that can be used with or without water. This thick, rich lotion emulsifies dirt, greases, inks, tar, asphalt, oils, lubricants, paints, industrial carbon and other heavy-duty soils without the need for harsh solvents. It is water soluble and will not clog your drain. It is also biodegradable.

The **Pumicized Titan HD** formula contains a bacteriostat and six natural moisturizers including glycerin, aloe vera, vitamin E, jojoba and wheat germ extract. These moisturizers soothe and condition your hands with no oily or sticky after-feel. The formula leaves your hands smelling clean and fresh with no lingering odors.

The fine, cosmetic-grade, American-pumice scrubbers found in **Pumicized Titan HD** allow you to clean deeper to remove even the toughest dirt and grime. This formula cleans fast and packs a strong punch with multiple cleansing agents.

Pumicized Titan HD is available in a 4000 ml tank. The 4000 ml can be used with our patented Part No. 13300 Dispensing System. Using **Pumicized Titan HD** as part of your skin care program promotes clean, healthy skin and helps to prevent dermatitis. **It can also be used with Zep Manufacturing's D-4000 dispenser.**

SPECIFICATIONS
- **FRAGRANCE: Almond**
- **Color: Forest Green**
- **Viscosity: Lotion**

FEATURES and BENEFITS
- **No Petroleum Odor**
- **Deep Cleans with Fine-Ground, American Pumice**
- **Does Not Contain Any Nonylphenol Ethoxylates (NPE)**
- **Complies with USA State VOC Regs**
- **Use 4000-ml with Our Dispensing System**

SKIN CARE INGREDIENTS
- **Glycerin ● Lanolin ● Jojoba**
- **Aloe Vera ● Vitamin E**
- **Wheat Germ Extract**

BEST ON FOLLOWING SOILS
- **Greases ● Oil and Lubricants I Inks**
- **Industrial Carbon ● Asphalt and More**

PUMICIZED CHERRY GLADIATOR - Conditioner Enriched Hand Cleaner

Pumicized Cherry Gladiator Conditioner Enriched Hand Cleaner is a premium, heavy-duty lotion hand cleaner effective for removing the toughest soils. Fine-ground, American pumice works with the formula to provide fast and complete removal of grease, most inks, tar, asphalt, oils, lubricants, paints, industrial carbon and more. This advanced conditioning formula contains an anti-microbial agent and ten skin care ingredients including almond oil, soy oil, glycerin, aloe, jojoba, lanolin, wheat germ extract and vitamins A, C and E. It is compliant with all USA state VOC regulations.

Pumicized Cherry Gladiator is available in 4000-ml tank. The 4000-ml tank is best used with Our 13300 Dispensing System. **It can also be used with Zep Manufacturing's D-4000 dispenser.**

SPECIFICATIONS
- **FRAGRANCE: Wild Cherry**
- **Color: Cherry Vanilla**
- **Viscosity: Lotion**

FEATURES and BENEFITS
- **No Petroleum Odor**
- **Deep Cleans with Fine-Ground, American Pumice**
- **Does Not Contain Any Nonylphenol Ethoxylates (NPE)**
- **Complies with USA State VOC Regs**
- **Use 4000-ml with Our Dispensing System**
- **Outperforms Competitor's Cherry Hand Cleaners**

SKIN CARE INGREDIENTS
- **Almond Oil ● Soy Oil ● Glycerin ● Lanolin**
- **Jojoba ● Aloe Vera ● Wheat Germ Extract**
- **Vitamin A, C and E**

BEST ON FOLLOWING SOILS
- **Greases ● Oil and Lubricants ● Inks**
- **Industrial Carbon ● Asphalt and More**

PUMICIZED CITRA-CLEAN Conditioner Enriched Hand Cleaner

Citra-Clean Conditioner Enriched Hand Cleaner is an all natural cleansing formula that deep cleans your hands, leaving skin moist and fresh smelling - not dry and chapped. **Citra-Clean** attacks grease and grime and removes soil, paint, adhesives, ink, odors, glue, putty, tar, oil, carbon, asphalt and other soilers. For those hard to rid odors - fish, onions, gasoline, garlic and smoke. Cleans up with or without water. This advanced conditioning formula contains an antimicrobial agent and nine skin care ingredients including almond oil, soy oil, glycerin, aloe, jojoba, wheat germ extract and vitamins A, C and E. It is compliant with all state VOC regulations and NPE-free. It contains no harsh solvents, toxins or petroleum, and is completely organic, non-irritating, biodegradable and safe to use. **It can also be used with Zep Manufacturing's D-4000 dispenser.**

SPECIFICATIONS
- **FRAGRANCE: Natural Fresh Citrus**
- **Color: Lime Green**
- **Viscosity: Lotion**

FEATURES and BENEFITS
- **Citrus Oils / No Petroleum Solvents**
- **Contains an Antimicrobial Agent**
- **Enriched with 9 Skin Care Ingredients**
- **Complies with USA State VOC Regs**
- **Use 4000-ml with Our Dispensing System**

SKIN CARE INGREDIENTS
- **Almond Oil ● Soy Oil ● Glycerin**
- **Jojoba ● Aloe Vera ● Wheat Germ Extract**
- **Vitamin A, C and E**

BEST ON FOLLOWING SOILS
- **Greases ● Pipe Dope ● Cutting Oil**
- **Undercoating ● Inks and More**

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HAND CLEANERS

INSTANT HAND SANITIZER

Help your facility meet OSHA, APIC and CDC hand washing recommendations in the absence of soap and water.

GEL FORMULA

- Convenient 2 oz. size, with flip top cap.
- Easily stores anywhere.
- Contains Aloe Vera for added moisture.
- Kills 99.99% of germs in 15 seconds.
- Evaporates quickly and completely.
- No rinsing required.

Part No. **901041**
(Citrus Scent)

GOJO FAST WIPES

Heavy duty hand cleaning towels.

Instead of time-consuming trips to the wash station, shop technicians can now get a one-step clean-up with GOJO Fast Wipes premoistened heavy duty hand cleaning towels.

- Durable, absorbent, non-woven material.
- Impregnated with fast-acting orange cleaning formula.
- Fortified with vitamin E and aloe to protect hands.
- A "must" for remote work areas, mobile repair trucks, wreckers, utility crews, etc.

PART NUMBER	DESCRIPTION	QTY
GOJ6298	130 count bucket	4

GOJO HAND CLEANERS

PRO 2000 INDUSTRIAL DISPENSING SYSTEM

ADA Compliant portion bar. Adjustable portion control may be set so 0.75, 1.0, 2.0 or 3.0 ml. of product is dispensed with each push. Economical concentrated soap formulas come in sanitary, no leak pouches, and are easy to load. The 2000 ml. bag-in-box refills include a new dispensing valve. Dispensers covered by manufacturers lifetime warranty.

GOJ7200 PRO 2000™ Industrial Dispenser - Ideal for shop floor wash stations. For 2000 ml. refills (sold below). Black plastic 7w x 5-3/4d x 16-1/2h.
GOJ7255 4 **Natural Orange Hand Cleaner -** Economical waterless style. For moderate grease and medium soils. Fine Italian pumice enhances cleaning. Petroleum-free citrus formula 2000 ml.
GOJ7265 4 **Multi Green™ Hand Cleaner -** With scrubbing particles. Triple duty for light, medium, and heavy soils. Petroleum free. 2000 ml.
GOJ7272 PRO 2000 mL™ Supro Max™ Multi-Purpose Heavy Duty Hand Cleaner - Fast and effective lotion hand cleaner removes tough or sticky soils and adhesives. Unique blend of cleaners, skin conditioners and gentle scrubbers. Ideal for plant-wide use, body shops or wherever difficult soils are found. Apply to dry hands, then rinse. Non-drying formula.

GOJ7295 4 **Power Gold™ Hand Cleaner w/Crushables® -**
Fast, thorough cleaning of the heaviest dirt. Advanced scrubbing particles gently remove grease and grime. No harsh solvents. 2000 ml.

PURELL INSTANT HAND SANITIZER

For use by healthcare, food service, hospitals, nursing homes, restaurants, police, emergency medical personnel, general office use. Found in most up-to-date medical first aid kits. OSHA permitted for use as an instant hand sanitizer when there is exposure to bloodborne pathogens or other potentially infectious body fluids and access to soap and water is not immediately feasible.

- Kills 99.9% of germs that may cause illness in as little as 15 seconds.
- Use anytime, anyplace without water or towels.
- AQUELL™ moisturizing system leaves hands feeling soft & smooth; no stickiness or residue. Contains aloe and vitamin E.
- Hypoallergenic, dermatologist tested. Non-toxic.

GOJ9652 (12)
8 fl. oz.

GOJ9682 (24)
2 fl. oz.

GOJO HAND MEDIC

- GOJO guarantees hands will look and feel better in 14 days - when used as directed.
- Conditions, protects and heals rough cracked hands.
- Unique antiseptic formula.

GOJ8200
Hand Medic Wall Mount Dispenser

PART NUMBER	DESCRIPTION	QTY
GOJ8242	500 ml. dispenser refill	6
GOJ8142	2 oz. bottle	12

INVISIBLE GLOVE™ BARRIER CREAM

Protects hands from grease, dirt, oil and paint.

- No need for gloves.
- Thin film protects pores, cracks and fingernails.
- Not greasy - actually improves grip on tools.
- Easy clean up - just soap and water.

Part No. **211476** (12)
5 oz. tube

E-Z CLEAN WATERLESS HAND CLEANER

"Grabs The Grime Others Leave Behind"

- Dissolves grime, keeps it in suspension and lifts it from the skin and pores.
- High grade synthetic solvents quickly remove grease, tar, paint, grime, ink, adhesives and more.
- Conditions the skin, leaves hands smooth & soft.
- Unique cans fit most other brand dispensers.

TOP TEN SELLER

E-Z CLEAN STOCK NO.	PUMICIZED E-Z CLEAN STOCK NO.	DESCRIPTION (DISPENSER NOT INCLUDED)	QTY
13179	13176	4-1/2 lb. Can (Cream)	6
13180	13177	7 lb. Can (Cream)	6

E-Z CLEAN WALL MOUNT DISPENSERS

Part No. 13187
Fits 7 lb. can

Part No. 13186
Fits 4-1/2 lb. can

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HAND CLEANERS

"WONDER" PREMIUM HAND CLEANER

Non-Solvent Formula Eliminates Drying and Cracking of Your Skin

- **Contains the Anti-Microbial "PCMX"**
- **Contains Superior Skin Emollients & Skin Conditioners.**
- **No Dyes or Perfumes.**
- **Contains Natural Walnut Shell Scrubbers.**
- **Thick Concentrated Formula Reduces Hand Soap Use by up to 75%.**
- **Washes Away Completely with No Greasy Residue.**
- **No Phosphates**
- **Low Cost per Use with Metered DIspenser.**

Part No. 13181 4
120 fl. oz. 3.55 liters

Dispenser sold separately, Part No. 13184

Part No. 13183
18 fl. oz. Portable Squeeze Bottle

Lifetime Dispenser

Part No. 13184

All natural, organic hand cleaner, with Di-Limonene

- **Natural orange oils - no petroleum solvents.**
- **Biodegradable, fresh orange scent, environmentally safe.**
- **Removes grease, grime, oil, tar, ink and adhesives. Especially good for paint and urethanes, yet won't dry or chap hands.**
- **Cleans with or without water.**

PUMICIZED CITRA-CLEAN STOCK NO.	DESCRIPTION (DISPENSER NOT INCLUDED)	QTY
13195	4-1/2 lb. Can (Cream)	6
13191	1 Gallon Jug (Lotion)	6

Guaranteed For Life,
provided it is used with our hand cleaner.

Part No. 13188
Fits Part No. 13191 gallon jug.

LIFETIME DISPENSER

Citrus based cleaners destroy plastic pumps. Our durable lifetime dispenser is the only long lasting solution.

E-Z WIPES HEAVY DUTY WATERLESS HAND CLEANER TOWELS

A combination of powerful cleaning agents with an absorbent, non-scratching hand towel. E-Z Wipes quickly dissolves grease and grime, yet are gentle enough to leave hands conditioned and residue free.

Part No. 13189

- **Quick cleaning at the work site.**
- **Course textured, deep cleaning wipes.**
- **Clean after-feel with no residue.**
- **Contains antiseptic agent.**
- **Natural citrus oil formula.**
- **U.S.D.A. authorized, E-4 (Pending).**
- **Fragrance: natural, light citrus.**

Best On Following Soils:
- **Grease.**
- **Oils and lubricants.**
- **Adhesives.**
- **Inks and more.**

Put E-Z Wipes cleaning strength to work for you. After cleaning your hands use E-Z Wipes to clean:

Tools	**Plastics**
Equipment	**Tool Boxes**
Painted Surfaces	**Vinyl**
Work Surfaces	**Metal**

Keep a Bucket close to your workplace.

• Portable • Convenient • Effective •

Conditioning Agents:
- **Glycerine**
- **Jojoba**
- **Vitamin E**
- **Aloe Vera**
- **Wheat Germ Extract**

Part No. 13199 6
wipe size: 10" x 12"
90 wipes per container

WALL MOUNT HOLDER

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AUTOMOTIVE CLEANERS

BRAKE CLEANERS

Available in non-chlorinated or non-flammable formulas. Both products are formulated to quickly remove brake fluid, grease, oil, and other contaminants instantly. Helps brakes last longer and perform more efficiently. Use on brake linings, pads, drums, rotors, cylinders, calipers, brake parts, clutch discs, cv joints and general purpose cleaning of parts & equipment.

NON-CHLORINATED BRAKE CLEAN

TOP TEN SELLER

- High strength cleaning action.
- Evaporates rapidly.
- Leaves no residue.
- Replaces 1,1,1 Trichloroethane and chlorinated solvent degreasers.
- Contains no known ozone depleting substances.
- Non-staining and non-corrosive.
- Use where compliance issues may require a chlorine-free product.

Part No. 13116 (24)
15 oz. net weight (425g)

NOTE: This product is labeled extremely flammable. Read and observe the special usage warning on the label. Not for use on energized equipment.

LOW VOC BRAKE & PARTS CLEANER

- No chlorinated solvents.
- Powerful spray.
- Instantly degreases.
- Compliant for use in OTC and LADCO states.
- No ozone depleting substances.

- No fouled waste oil.
- Leaves no residue.
- Safe for all metal parts.
- Removes brake fluid, grease and oil.
- Fast cleaning, high strength.
- Hexane & Toluene free.

Part No. 213116 (24)
14.39 oz. net weight (408g)

Non-chlorinated solvents weigh less than equal amounts of chlorinated solvents.
Both products featured on this page contain the same volume of liquid solvent.

NON-FLAMMABLE BRAKE CLEANER and PARTS DEGREASER

TOP TEN SELLER

- Fast cleaning action.
- Degreases instantly.
- Leaves no residue.
- Contains no CFC's, 1,1,1Trichloroethane or any ozone depleting solvents.
- No flash or fire point.
- Non-corrosive and non-staining.
- Safely cleans electric motors, starters and electrical terminals.

Part No. 211330 (24)
20 oz. net weight (567g)
(1.250 lb.)

CAUTION: May be harmful to some plastics and paints. Test on a small area before using.

AIR INTAKE SYSTEM CLEANER

Cleans air intake system of fuel injected cars without damaging special surface coatings or sensitive components.

- Especially formulated to safely clean sensitive components in the air intake system. Use in place of regular carburetor cleaners which can damage fuel injection system components.
- Cleans lubricates and provides anti-corrosion protection for throttle valves, throttle bodies and idle controls.
- Safe on special surface coatings and delicate component materials. Will not harm oxygen sensor or catalytic converters.

Part No. 211415 (12) Aerosol
14.75 oz. net weight (418g)

Can will spray from any angle, even upside down.

DE-SOLV-IT - Engine and Equipment Degreaser

Degreases engines and equipment.

- Specially formulated to remove dirt, grease and oil from all mechanical engines, machinery, tools and even greasy floors.
- Simply spray on DE-SOLV-IT - it penetrates through layers of dirt, grease and grime, down to the metal itself.
- Biodegradable formula emulsifies grease and oil.

Part No. 13111 6
1 lb. 2 oz. net wt. (510g)

CARB-SOLV

Cleans carburetors, chokes and PCV valves.

- Instantly dissolves gum, varnish, grease, carbon and oil. Prevents corrosion.
- Works faster and better than ordinary carburetor cleaners.
- Available 3 ways:
  Power Pulsating aerosol spray hammers away heavy build-up.
  Hi-Delivery aerosol spray to flush away large areas of deposits.
  Bulk Refill for users of rechargeable compressed air sprayers.
  (See Section C14 for this cost effective alternative.)

Part No. 211340 (24)
Power Pulsating Aerosol
14.75 oz. net weight (418g)

Part No. 211341 (24)
Hi-Delivery Aerosol
14.75 oz. net weight (418g)

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AUTOMOTIVE CLEANERS

PERMATEX® NON-CHLORINATED BRAKE & PARTS CLEANER

All brake systems, c.v. joints, machinery, tools, farm equipment.

- Penetrates, dissolves and removes dirt and oil from brake systems and metal parts.
- Safer for aluminum.
- Leaves no contaminant - attracting residue or chlorinated solvent run-off.
- Helps manage EPA halide limits.
- Level 3 ▲ flammability.

Part No. 211554 (12)
Permatex No. 82220
14.5 oz. net wt. (410g)

PERMATEX® BRAKE & PARTS CLEANER

Non-Flammable

All brake systems, c.v. joints, machinery, tools, farm machinery.

- Penetrates, dissolves and removes oil, grease and brake fluids.
- Dries fast with no residue.
- Contains no ODC's.
- Pro-strength developed for brake professionals.
- Eliminates the need to disassemble.

Part No. 211566 (12)
Permatex No. 82606
19 oz. net wt. (538g)

GUNK® ENGINE DEGREASER

Degreases engines & equipment.

- Quickly removes grease & grime.
- The original self-emulsifying degreaser.
- Use on automobile, power mower, marine, industrial machinery and farm tractors.

Part No. 211564 (12)
Gunk No. EB1
16 oz. net wt. (453g)

BERKEBILE 2 + 2 GUM CUTTER

Cleans carburetors, choke & PCV valves.

- Works instantly.
- Cleans metal parts.
- Safe for use with catalytic converters.
- Oxygen sensor safe.

Part No. 211558 (12)
Berkebile No. B101
13 oz. net wt. (368g)

BRAKLEEN® NON-CHLORINATED & LOW VOC BRAKE PARTS CLEANER

Contains no chlorinated solvents.

- Use where compliance calls for a chlorine-free product.
- Quickly removes brake fluid, grease, oil and other contaminants from brake linings and pads.
- Cleans fast, dries fast, leaves no residue.
- Degreases instantly.
- Works without disassembly.

Part No. 211576 (12)
14 oz. net weight
(CRC05084)

BRAKLEEN® NON-FLAMMABLE BRAKE PARTS CLEANER

Non-Flammable Formula.

- Quickly removes brake dust, brake fluid, grease, and other contaminants from all types of brake systems including ABS.
- Cleans fast and dries faster!

Part No. 211577 (12)
19 oz. net weight
(CRC05089)

MASS AIR FLOW SENSOR CLEANER

Proven to gain 4-10 horsepower at the wheel.

The safe and effective alternative to "underground" methods of MAF sensor cleaning.

- Safely cleans & protects MAF sensors.
- Plastic safe & leaves no residue.
- Increases horsepower.
- Decreases hesitation & pinging.
- Improves fuel economy & MPG.
- Reduces rough idle.

Part No. 211588 (12)
11 oz. net wt. (312g)
(CRC05110)

GASKET REMOVER

Removes baked-on gaskets in minutes.

- Outperforms all others gasket removers & strippers.
- Our gasket remover is the better way to do a tough job faster & faster.
- Removes gaskets from any type of metal even in high temperature areas, paint, shellac, varnish and most other synthetic finishes, tar and asphalt from construction equipment, hard-to-get-off simulated automotive wood paneling and decals where painted surface is also to be removed.

Part No. 13145 (12)
19 oz. net weight (538g)

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AUTOMOTIVE CLEANERS and APPEARANCE PRODUCTS

BATTERY CLEANER and PROTECTOR

Two products in one can, cleans and protects batteries.

- **Eliminates corrosion.**
- **Penetrates, dissolves and neutralizes corrosion and acid build-up on all storage batteries.**
- **Leaves protective seal against future corrosion build-up.**
- **Increases electrical conductivity and prolongs battery life.**
- **Color: Red.**

TOP TEN SELLER

NEW
EPA Compliant Formula
No MCL, CFC's or
Trichloroethane.

Part No. 13139 (24)
14 oz. net wt. (397g)

PERMATEX® BATTERY CLEANER

- **Spray it on and wash off.**
- **Works in just three minutes.**

Suggested applications: Automotive, marine, farm machinery and motorcycle batteries.

Part No. 211586 (12)
5.75 oz. net weight
Permatex No. 80369

CRC® BATTERY CLEANER

For use on battery terminals, casing, cable connectors, and retainer frames.

- **Spray on and rinse off with water.**
- **Reduces voltage leakage due to contaminants.**
- **Helps prevent corrosion.**
- **Assures maximum battery current flow.**

Part No. 211567 (12)
CRC No. 05023
11oz. net wt. (312g)

CRC® BATTERY TERMINAL PROTECTOR

For any vehicle battery.

- **This lead-free protective coating formula is designed to protect from corrosion, a leading cause of hard starting & battery failure.**
- **Formulated for aerosol applications.**
- **Dries quickly & protects instantly.**
- **Color: Red.**

Part No. 211568 (12)
CRC No. 05046
7.5 oz. net wt. (213g)

GLASS CLEAR

Does not streak!!

- **Cleans surfaces fast and easy through foaming action.**
- **Just spray it on and wipe it off immediately for sparkling clean surfaces every time.**
- **Leaves no sticky film to attract dirt and is non-staining.**
- **Contains ammonia for effective grease cutting.**
- **Cuts dirt and grime, removes smoke film.**

TOP TEN SELLER

Part No. 211301 (12)
19 oz. net weight (538g)

CRYSTAL CLEAR

- **Designed to remove dirt, grease & grime on hard surfaces.**
- **Heavy duty foam clings & penetrates soils.**
- **No dripping, running or build-up on surfaces.**
- **Especially great in body shops since it is ammonia & silicone free.**
- **Cleans, restores and shines.**

Ammonia & Silicone FREE

Part No. 211629 (12)
19 oz. net weight (538g)

GLASS-N-DASH™ MULTI-USE CLEANER

- **Cleans glass, mirrors, acrylic, plastic, fiberglass, vinyl, chrome and stainless steel surfaces without leaving a hazy film.**
- **Perfect for use at home, on cars, trucks, boats, planes & recreational vehicles.**
- **Formulated without harsh chemicals.**
- **Streak FREE!**

Part No. 211565 (12)
10 oz. net weight
(CRC05401)

CAR CLEAN CONCENTRATE

High foam car wash for hand or machine use.

Specially formulated to flow easily through proportioners in automatic car washes

- **Non-streaking, fast rinsing, shine enhancing, biodegradable.**
- **Outperforms all competitive products.**
- **Costs far less than powders, which contain 80% or more Carbonate of Soda or Sodium Sulfate.**
- **High foam, low viscosity that won't inhibit flow like the thick, high viscosity liquids. DON'T BE FOOLED. Concentrated doesn't always mean thick.**
- **Dilution rate: mix 1-2 oz. per bucket of water (2-1/2 to 3 gal).**

Part No. 211206G1 4
1 gallon container

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APPEARANCE PRODUCTS

PRO-TECH "WET LOOK" HIGH GLOSS DETAIL DRESSING

A special no-fuss brightener for vinyl, rubber and plastic. Use on tires, trim, bumpers, moldings and exterior surfaces.

- Works instantly, no wiping required.
- Long lasting, clear, non-foaming formula provides a water resistant high gloss shine.
- Brightens and renews any vinyl, rubber or plastic surface.
- Great for hard-to-reach places.
- Can also be used for interior vinyl and plastic surfaces.
- Contains silicone.
- Watermelon scent.

Part No. 211453 (12)
12 oz. net weight (340g)

PRO-TECH SATIN DETAIL DRESSING

A fast drying, non-greasy formula that shines vinyl, rubber, plastic and painted interior and exterior surfaces. Satin Detail Dressing lays out flat with no wiping necessary. Perfect for hard-to-reach areas such as air conditioning vents and engine compartments.

- Clear and odorless.
- No wiping.
- Fast drying.
- Contains silicone.

Part No. 211209 (12)
10-1/4 oz. net weight (290g)

VINYL, LEATHER and PLASTIC CLEANER and CONDITIONER

Cleans and restores the "New Look" in just one easy step.

- Safe - will not harm fabric, chrome or paint.
- Cleans - Brightens - Restores vinyl, leather and plastic in just one step.
- Will not crack, peel or craze.
- Use on vinyl tops, convertible tops, dashboards, seats, floor panels etc.

Part No. 211335 (12)
14.75 oz. net weight (418g)

FRESH N' KOOL

Freshens air for air conditioning systems.

- Spray directly into fresh air intake.
- Removes foul, musty odors from automobile and truck air conditioning systems. Eliminates stale tobacco smoke odor.
- Bactericidal formula eliminates odors caused by mildew and other odor producing organisms.

Part No. 211339 (12)
15 oz. net wt. (425g)

PRO-TECH WAX and SHINE

An aerosol wax that sprays on and buffs effortlessly to create a hard shell finish. Excellent wax and polish for anything that needs reviving. Maintains a beautiful factory-original shine.

- Removes oxidation.
- Restores brilliance for a long-lasting shine.
- Excellent for paint and chrome.
- Contains silicone.

Part No. 211210 (12)
14-1/2 oz. net weight (411g)

FOAMING TIRE CLEAN & SHINE

Cleans and shines tires, mud flaps and rubber bumpers. An excellent underhood cleaner and dressing.

- 1-Step Formula.
- Two products in one. Amazing foaming action, cleans and shines without washing or wiping.
- Easy to use. Simply spray it on and walk away.
- Large size aerosol can contains enough product to clean, shine and protect up to 30 tires.
- Will not harm tires, bumpers, aluminum wheels or paint.

Part No. 211337 (12)
15-3/4 oz. net wt (446g)

VELOUR & CARPET CLEANER and SPOT REMOVER

Removes spots & stains from carpet, velour and upholstery.

- Safe on all fibers.
- Dissolves soiled spots in minutes.
- Leaves no circle or ring.
- For all automotive or industrial applications.

Part No. 211334 (12)
18.75 oz. net weight (532g)

"LITTLE TREE" AIR FRESHENERS

- Pleasantly scented air fresheners help eliminate stale and musty odors.
- Refills individually packaged with hanger loop - 24 per box.

PART NUMBER	DESCRIPTION
811404	Royal Pine
811405	Vanilla
811406	New Car
811407	Cherry
811408	Strawberry
811409	Coconut

COUNTER TOP DISPLAY

Part No. 811400
Contains 144 total pieces, 24 of each scent, and display rack.

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PAINTS / COATINGS

SP-400™ CORROSION INHIBITOR

Long-term indoor/outdoor corrosion inhibitor for machined surfaces and assemblies subjected to long periods of storage or adverse shipping conditions. SP-400™ is an easily removable film that will provide protection of all equipment subject to heat, humidity, chemicals or severely corrosive atmospheres.

- Firm, waxy film is highly resistant to humidity and salt spray, and never becomes brittle.
- Long term protection (up to 2 years outdoors) for all metals during shipment or extended storage.
- Waxy film seals out moisture completely.

Patented MSD[L]™ Label!

Part No. 211585 (12)
10 oz. net wt. (284g) (CRC03282)

GRAVEL GUARD II

Premium quality, 100% rubber base undercoating.

- Black OE coarse textured finish.
- Professional body shop formula.
- Adheres well to bare metal or painted surfaces.
- Resists salt spray, weathering and gravel abrasion.
- Prevents rust, deadens sound, seals and protects.
- Expands & contracts automatically with weather changes - will not harden & crack.

Quick Drying, Paintable!

Part No. 211317 (12)
17.25 oz. net weight (503g)

TAMPER SEAL

Use to mark fasteners, plugs, seals, speedometer cables, locks, latches and closures.

- Place a dab against the fastener. Any attempt to loosen, adjust or remove it will break the seal leaving evidence of tampering.
- Visible proof for warranty claims.
- Excellent for lube shops, car rental agencies, new and used car dealerships, equipment rental, radio and TV repair shops, service contractors.

DESCRIPTION	PART NUMBER	QTY
Yellow 1.6 oz	**211102**	6
Red 1.6 oz	**211102R**	6
White 1.6 oz	**211102W**	6
Blue 1.6 oz	**211102B**	6

PERMATEX® HEAVY DUTY RUBBERIZED UNDERCOATING

Now with an improved formula! Rubberized for maximum durability, seals, protects and insulates. Excellent professional blend all-purpose coating.

Suggested Applications:
Automotive frames, rocker panels and wheels. Other uses include sealing gutters, roofs, drain systems and tree pruning.

Part No. 813283 12
20 oz. aerosol can,16 oz. net weight (454g)

"POWER GRIP" BELT DRESSING

Restores belt surfaces to "new" condition. Eliminates slippage and power loss.

- Deep penetration to the innermost fibers. Renews and revitalizes all automotive and industrial V-belts.
- Prevents dry rot, reduces stretching and wear.
- Removes and prevents glazing and hardening.
- Leaves no gummy deposit to attract dirt and cause wear.

Part No. 13110 (12)
18 oz. net weight (510g)

CRC® BELT DRESSING

Eliminates slippage on flat, round or V-belts.

- Extends belt life by improving traction.
- Reduces belt tension.
- Tacky, non-drying film resists being washed off.
- Authorized by USDA for use in federally inspected meat and poultry plants.

Patented MSD[L]™ Label!

Part No. 211572 (12)
10 oz. net wt. (284g) (CRC03065)

"EXTEND" RUST DESTROYING SANDABLE PRIMER

The only rust treatment that destroys old rust, prevents new rust, and acts as a primer.

Used to restore highly finished autobody surfaces, decorative metals, etc.

- Requires only light surface sanding before applying.
- Can be dry-sanded to a featheredge.
- Forms a protective polymer coating that prevents future rust when coated with oil-based paint or lacquer.
- Is white when applied, then turns black.
- Cleans up easily with water.

Part No. 812356
Permatex No. 79DA
10.25 oz. net wt. (290g)

SEAL-IT

MULTI PURPOSE SEALANT

Perfect for: Skylights, Flashings, Air Vents, PVC, Concrete, Shingles, Gutters, Driveway and Sidewalk Cracks,

Use on Roofs of: Semi-Trailers, Campers and Homes

- Protects against UV light.
- Resists temperature extremes.
- Impervious to water.
- Abrasion resistant.
- Seals out rust and corrosion
- Coating remains flexible and will not crack or peel.

DESCRIPTION	PART NUMBER	QTY
Black	**44448**	12
Clear	**44459**	12

15 oz. net weight (425g)

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SPRAY PAINTS

MRO HIGH SOLIDS INDUSTRIAL PAINT

A high performance, industrial grade paint that contains up to 80% more solids than conventional paints.

- **Single-coat hiding power. Excellent gloss retention.**
- **V.O.C. compliant. Does not contain lead, CFC's, chromates, or chlorinated solvents.**
- **Protects against weather, rust, oil, gasoline, chemicals and rough service.**
- **Withstands high humidity, splash and spray. Very good abrasion resistance. Heat resistance up to 250°F.**

✔**High solids formulation delivers single-coat hiding power.**
✔**Using fewer cans of MRO saves you time and money: One 20 oz. can of MRO = Four 16 oz. cans of Low Solids Promotional Brand.**

*Meets OSHA safety color and ANSI specification Z53-1 20 fluid oz., 16 oz. net wt

DESCRIPTION	PART NUMBER	QTY
Light Gray Primer	**124169**	12
Red Iron Oxide Primer	**124168**	12
Gloss White*	**124113**	12
Flat White	**124109**	12
New Cat Yellow	**124159**	12
Ryder Yellow	**124160**	12
Safety Yellow*	**124114**	12

DESCRIPTION	PART NUMBER	QTY
School Bus Yellow	**124225**	6
Gloss Tan	**124174**	12
Cummins Beige	**124161**	12
Omaha Orange	**124167**	12
Safety Orange*	**124115**	12
Safety Red*	**124116**	12
Cascade Green	**124166**	12

DESCRIPTION	PART NUMBER	QTY
Safety Green*	**124117**	12
Dark Green	**124178**	12
Light Blue	**124182**	12
Safety Blue*	**124118**	12
Deep Blue	**124183**	12
Aluminum	**124112**	12
Stainless Steel	**124146**	12

DESCRIPTION	PART NUMBER	QTY
Gray ANSI 61 Light Machinery	**124147**	12
Gray ANSI 70 Dark Machinery	**124110**	12
Gray ANSI 40	**124148**	12
Gloss Black*	**124119**	12
Flat Black	**124157**	12

C13

STRIPE INVERTED TIP MARKER

A heavy duty, industrial marker that is easier on the environment.

A high quality water-base paint. Stripe® Inverted Tip Marker brings environmental safety to the industrial setting. It's heavy duty, no-clog, fast drying formula contains no CFC's, methylene chloride, or lead. This environmentally formulated spray paint is water-base but not water soluble which means it won't wash away yet it's safe to use on grass. Available in a full range of American Public Works Association approved colors makes Stripe Inverted Tip Marker ideal for use in markingconstruction and excavation sites, underground utility, or traffic safety. An exclusive spray tip and can are also designed to operate in an inverted position.

- **Stripe Inverted Tip Marker spray paint may be quickly and easily applied using either the Stripe Gun or Stripe Wand. Either tool makes application of free-hand marks or lines even easier.**
- **Colors include the American Public Works Association's Utility Colors:**

Utility Yellow - Gas distribution and transmission; oil distribution and transmission; dangerous materials, product lines or steam lines.
Precaution Blue - Water.
Safety Green - Sewer systems.
Safety Red - Electrical power, distribution, and transmission; municipal electric systems; fire protection
Alert Orange - Telephone and telegraph systems, police and fire communications, cable television.
Black (Asphalt) - Use to cover existing patterns & markings.
Fluorescent Orange - High visibility night marker for construction and maintenance projects.

DESCRIPTION	PART NUMBER	QTY
White	**124150**	12
Utility Yellow	**124155**	12
Alert Orange	**124153**	12
Fluorescent Orange	**124158**	12
Safety Red	**124154**	12
Safety Green	**124152**	12
Precaution Blue	**124151**	12
Black (Asphalt)	**124149**	12

20 fluid oz., 17.7 oz. net weight

Applicator: use Stripe Marking Gun **124172** or Marking Wand **124171** to apply this product.

STRIPE GOLF COURSE MARKER

Safe on turf and safer on the environment.

Quality, performance and safety. Stripe® Golf Course Marker is designed for use on golf course or other porous surface applications. It's water-base formula will not harm the grass yet Stripe Golf Course Marker will not wash away since it is not water soluble. Environmentally formulated, Stripe Golf Course Marker contains no CFC's, methylene chloride, and is VOC compliant. Stripe Golf Course Marker's exclusive spray tip is designed to operate in the inverted position which also allows contents of the entire can to be used.

- **Safe on turf and most other porous surfaces.**
- **Non-clogging formula.**
- **Long lasting, bright, vivid color.**
- **Water-base, not water soluble.**

Applicator: Stripe Golf Course Marker is applied with Stripe Marking Gun **124172** or Marking Wand **124171**.

DESCRIPTION	PART NUMBER	QTY
White	**124162**	12
Red	**124163**	12

16 fluid oz., 13.5 oz. net weight

STRIPE ATHLETIC FIELD MARKER

Safe on turf and the environment.

Universal Tip Works in almost all competitor's machines and marking wands.

- **Specially formulated, water-base paint.**
- **Will not harm grass.**
- **Not water soluble - will not wash away.**

Applicator: Stripe Athletic Field Marker is applied with Athletic Marker Machine **124179** or Curb Marker Wand **124180**.

DESCRIPTION	PART NUMBER	QTY
White	**124164**	12
Orange	**124165**	12
Blue	**124181**	12

20 fluid oz., 18 oz. net weight

STRIPE TRAFFIC MARKER

Highway quality yet environmentally safer.

A water based formula that won't wash away. Stripe® Traffic Marker combines the environmental advantage of a water-base formula with high pigment solids for an easy to apply, long lasting marker spray paint that contains no CFC's, methylene chloride, and less VOC solvents. Stripe's vivid colors are ideal for any surface, from concrete or blacktop to gravel or dirt, that requires traffic control markings. Stripe is also water-base but not water soluble so it will not wash away. Stripe is the first choice in traffic marker spray paint.

DESCRIPTION	PART NUMBER	QTY
Traffic White	**124132**	12
Traffic Yellow	**124131**	12
Fire Safety Red	**124128**	12
Handicap Lt. Blue	**124129**	12
Handicap Dk. Blue	**124127**	12

20 fluid oz., 17.7 oz. net weight

Universal Tip Works in almost all competitor's machines and marking wands.

Superior performance for harsh traffic applications.

- **Ideal for use on all roadway surfaces, parking lots, factories, warehouses or wherever traffic control markings are required.**
- **Long lasting, one pass coverage.**
- **Non-clogging.**

Applicator: use Stripe Traffic Marking Machine **124130** or Curb Marking Wand **124180** to apply this product.

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ACCESSORIES and TOOLS / SPRAY PAINTS

STRIPE APPLICATOR TOOLS (FOR STRIPE PAINT PRODUCTS)

TRAFFIC MACHINE

Designed exclusively for Stripe Traffic Paints, this easy-to-use machine applies crisp, even 2" to 4" lines to concrete or asphalt.

Part No. 124130

ATHLETIC MARKER MACHINE

For use with Stripe Athletic Field Marker Paints. Allows application of lines up to 2" to 4" on athletic fields or other turf surfaces.

Part No. 124179

MARKING WAND

For use with all Stripe Inverted Tip Marking Paints, this lightweight tool is ideal for a wide range of marking applications.

Part No. 124171

CURB MARKING WAND

Compact and lightweight, this tool is ideal for marking curbs, applying numbers and logos. For use on concrete, asphalt and athletic fields. Use with Traffic Marker and Athletic Field Marker Paints. *Features larger size turf wheel.*

Part No. 124180

MARKING GUN

Compact and lightweight, this tool is ideal for free-hand marking with any Stripe Inverted Tip Marking Paint.

Part No. 124172

C13

HARDWARE PAINT

Economy grade spray paint for general purpose marking, touch-up, machinery and maintenance applications.

- **Fast drying.**
- **Non-smudging.**
- **Provides a long lasting finish.**

DESCRIPTION	PART NUMBER	QTY
Clear	124211	12
Red Oxide Primer	124184	12
Gray Primer	124187	12
Gloss White	124188	12
Yellow	124193	12
Omaha Orange	124202	12
Bright Gold	124207	12
Red	124192	12

DESCRIPTION	PART NUMBER	QTY
Blue	124194	12
Dull Aluminum	124201	12
Bright Silver	124203	12
Light Gray	124205	12
Machine Gray	124208	12
Gloss Black	124189	12
Semi-Gloss Black	124190	12
Flat Black	124191	12

16 fluid oz., 10 oz. net weight

Engine Colors Available:

DESCRIPTION	PART NUMBER	QTY
International Red	124212	12
Universal Aluminum	124206	12
School Bus Yellow	124196	12
Caterpllar Yellow / Harvest Gold	124197	12
New Caterpllar Yellow / Autumn Gold	124199	12
Chevrolet Orange	124204	12
Detroit Green / Alpine Green	124200	12
Cummins Beige	124198	12
Universal Gray Engine	124210	12
Universal Black Engine	124209	12

16 fluid oz., 10 oz. net weight

ZINC GALVANIZING COMPOUND

Metal fabricating, welding, general maintenance of metal structures, equipment, machinery and most other applications where metal is subjected to corrosion and rust.

- **Protection equal to hot-dipped galvanizing.**
- **Highly resistant to salt corrosion and water.**
- **Epoxy resin binder.**
- **Can be top coated with conventional primers and finishes. Avoid lacquers and alkyds.**

Uses: Corrosion protection of steel buildings, roofs, doors, fences, guard rails, road signs, gutters, bridges, farm equipment, marine equipment, highway maintenance, and other automotive and industrial uses.

Zinc Rich Cold Galvanize

Part No. 211303 (12)
16 fl. oz. / 13 oz. net weight (369g)
Dark Gray Matte Finish

Part No. 211304 (12)
16 fl. oz. / 12 oz. net weight (340g)
Bright Metallic Silver Finish

FLUORESCENT SPRAY PAINT

Four times brighter than conventional colors.

Use on boats, equipment and aircraft, anywhere that visibility is vital.

- **Quick drying.**
- **Used in mines to mark all beams and rocks.**
- **Adheres well to damp surfaces in mines.**

DESCRIPTION	PART NUMBER	QTY
Fluorescent Orange	12494	12

16 fluid oz., 10.9 oz. net weight

STAINLESS STEEL

Corrosion resistant paint.

- **Provides maximum protection.**
- **Looks exactly like, and is, stainless steel.**
- **Contains 100% stainless steel, type 316 pigment.**

Part No. 124111 (12)
16 fluid oz., 12.3 oz. net weight

ALUMI BLAST

A unique spray paint.

Makes restored, worn & pitted aluminum parts look brand *NEW*!

- **Non-smudging, easy to apply.**
- **Won't rub off, keeps parts looking good longer.**
- **Gives aluminum and zinc die-cast parts such as alternators, calipers, water pumps, heads, transmission housings, etc. -that "fresh-from-the-factory" look!**

Part No. 124107 (12)
16 fluid oz.,11.9 oz. net weight

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SPRAY PAINTS

CAST BLAST

Cast iron gray spray paint.

Restores a new cast iron look to:
- **Engine block heads.**
- **Intake manifolds.**
- **Transmission housings.**
- **Water pumps.**
- **Any cast iron.**
- **Temperature range to 350°F.**

Special Quick Dry Formula!

Part No. 124108 (12)
16 fluid oz.,11.7 oz. net weight

CHROME-BRITE

The almost like chrome spray paint.

- **Excellent for touch-up on chrome or almost any surface where a chrome-like finish is desired.**
- **Restores the new chrome appearance of bumpers, grills, furniture, light fixtures, hubcaps and wheels, etc.**

Part No. 12495
16 fluid oz., 12.1 oz. net weight

CEILING TILE - NEW WHITE

- **A water based formulation for touching up stains that appear on both textured and accoustical ceiling tiles.**
- **Designed to spray in the upright position for easy overhead applications.**
- **Will not warp or sag tiles.**

Part No. 124226 12
20 fluid oz., 16 oz. net weight

FLEXIBLE BUMPER & TRIM PAINTS

- **High solids, fast drying, flexible formula.**
- **Formulated to refinish plastic and metal bumpers and trim components.**
- **High quality refinish duplicates OE appearance.**
- **Contents 16 fluid oz., 12-3/4 oz. net wt. Available in single cans or six packs.**

PART NUMBER	QTY	COLOR	DESCRIPTION
124135	6	Satin Black	Low gloss matches foreign and domestic bumpers & trim.

HI-TECH ENGINE COATINGS

- **Gasoline, rust and chemical resistant; heat resistant up to 300°F.**
- **High performance OEM colors.**
- **Superior durability under a variety of stress conditions.**
- **Excellent for automotive, above water marine and fleet applications.**

FORD BLUE
Part No. 12483 6
16 fluid oz.,12 oz. net weight

CHEVY ORANGE
Part No. 12484 6
16 fluid oz.,12 oz. net weight

PAINT STRIPPER

SUPER STRENGTH - FAST ACTING

Use on acrylics, lacquers, polyurethanes and baked enamels

- **Efficiently removes finish from metal surfaces of cars, trucks, & equipment.**
- **Non-corrosive to all common metals under normal exposure.**
- **Works well on shellac and varnish covered wood surfaces.**

Part No. 124120 (12)
19 oz. (1 lb. 3 oz.) net weight
(538g)

SAFE-STEP, NON-SKID, ANTI-SLIP EPOXY COATING

Contains Synthetic Grit!

For interior or exterior use on concrete, steel, wood, fiberglass, aluminum and other surfaces.

- **Increases safety - maximum slip resistance: High friction coating increases traction, helps prevent slips & falls. Creates a safer environment for work or play.**
- **Epoxy tough: Cures rock hard. Grit surface wears longer. Stands up to heavy traffic under both wet and dry conditions.**
- **Chemical resistant epoxy: Stands up to oils, gasoline, and other solvents, dilute acids, deicing salts and more.**
- **Easy to use: Convenient aerosol is perfect for any application. No mixing, thinning, no time consuming brush application. Best of all, no clean up!**
- **Dries quickly: Dries in about an hour. Ready for traffic in 24 hours.**

Safe-Step works great on: Steps, ladder rungs, diving boards, ramps, showers, bathtubs, locker rooms, loading docks, walkways, boats, marine docks, public rest rooms and almost anywhere you need anti-slip protection.

DESCRIPTION	PART NUMBER	QTY
Clear	**124101**	12
OSHA Yellow	**124104**	12
Black	**124102**	12

16 fluid oz., 12 oz. net weight

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COMPLETE LIST OF AVAILABLE PAINTS & COLORS

In all categories primer's are listed first, followed by colors listed in order from lightest to darkest shades.

GENERAL USE ENAMELS PAINTS

PART NO.	DESCRIPTION	QTY
12415	Lt. Gray Primer	12
12418	Red Iron Oxide Primer	12
12428	Gloss Clear	12
12406	Gloss White	12
12427	School Bus Yellow	12
12408	Gloss Red	12
12496	Gloss Hunter Green	12
12405	Aluminum	12
124105	Dull Aluminum	12
124111	Stainless Steel Paint	6
12495	Chrome Paint	6
12426	Gloss Lt. Gray	12
12407	Gloss Black	12
12412	Flat Black	12
12410	Semi Gloss Black	6

SPECIALTY PAINTS

PART NO.	DESCRIPTION	QTY
12494	Orange Fluorescent	12
12484	Chevy Orange Engine	6
12483	Ford Blue Engine	6
12469	1200° Aluminum Hi-Heat	12
124107	AlumiBlast	6
124108	Cast Blast	6
211304	Bright Zinc Galvanizing Compound	12
211303	Zinc Galvanizing Compound	12
12425	Satin Black (Underhood) Lacquer	12
12471	1200° Black Hi-Heat	12
12417	Gloss Black - Lacquer	12
124226	Ceiling Tile - New White	12

HARDWARE PAINT

PART NO.	DESCRIPTION	QTY
124184	Red Oxide Primer	12
124187	Gray Primer	12
124211	Clear	12
124188	Gloss White	12
124193	Yellow	12
124196	School Bus Yellow	12
124197	Harvest Gold / CAT Yellow	12
124199	Autumn Gold / New CAT Yellow	12
124198	Cummins Beige	12
124202	Omaha Orange	12
124204	Chevrolet Orange	12
124207	Bright Gold	12
124192	Red	12
124200	Detroit Green	12
124194	Blue	12
124203	Bright Silver	12
124206	Universal Aluminum	12
124201	Dull Aluminum	12
124205	Light Gray	12
124208	Machinery Gray	12
124210	Universal Gray Engine	12
124190	Semi-Gloss Black	12
124189	Gloss Black	12
124191	Flat Black	12
124209	Universal Black Engine	12
124212	International Red	12

SAFE-STEP COATING

PART NO.	DESCRIPTION	QTY
124101	Clear	12
124104	OSHA Yellow	12
124102	Black	12

MRO HIGH SOLIDS PAINT

PART NO.	DESCRIPTION	QTY
124169	Lt. Gray Primer	12
124168	Red Iron Oxide Primer	12
124113	Gloss White*	12
124109	Flat White	12
124159	New Cat Yellow	12
124160	Ryder Yellow	12
124114	Safety Yellow*	12
124225	School Bus Yellow	6
124174	Gloss Tan	12
124161	Cummins Beige	12
124167	Omaha Orange	12
124115	Safety Orange*	12
124116	Safety Red*	12
124166	Cascade Green	12
124117	Safety Green*	12
124178	Dark Green	12
124182	Light Blue	12
124118	Safety Blue*	12
124183	Deep Blue	12
124112	Aluminum	12
124146	Stainless Steel	12
124147	Gray	12
124110	Light Machinery Gray ANSI	12
124148	Dark Machinery Gray ANSI	12
124119	Gloss Black*	12
124157	Flat Black	12

***Meets OSHA/ANSI Specifications.**

STRIPE PAINTS

Athletic Field Marker

PART NO.	DESCRIPTION	QTY
124164	White	12
124165	Orange	12
124181	Blue	12

Golf Course Marker

PART NO.	DESCRIPTION	QTY
124162	White	12
124163	Red	12

Heavy Duty Industrial Marker

PART NO.	DESCRIPTION	QTY
124150	White	12
124155	Utility Yellow	12
124153	Alert Orange	12
124158	Fluorescent Orange	12
124154	Safety Red	12
124152	Safety Green	12
124151	Precaution Blue	12
124149	Black (Asphalt)	12

Traffic Marker

PART NO.	DESCRIPTION	QTY
124132	Traffic White	12
124131	Traffic Yellow	12
124128	Traffic Red	12
124129	Handicap Light Blue	12
124127	Handicap Dark Blue	12

TRACTOR and IMPLEMENT PAINT (enamel)

PART NO.	DESCRIPTION	QTY
12485	Caterpillar Yellow	12
12492	New Caterpillar Yellow	12
12497	New Deere Yellow	12
12486	Cummins Beige	12
12487	IHC Red	12
12498	New Deere Green	12
12489	Case & Deere Green	12
12490	Ford Blue	12

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SPECIALTY ITEMS

WASP & HORNET KILLER PLUS™

NEW Formula kills more than wasps and hornets.

Wasp & Hornet Killer PLUS™ is a fast-acting, high strength insecticide that knocks down and kills wasps, hornets, fire ants, scorpions and black widow spiders on contact. It features a high dielectric strength of 40,100 volts.

- **Non-Chlorinated formulation.**
- **Plastic safe.**
- **Reaches over 20 feet.**
- **"Material Safety Data Sheet" right on the label.**

Recommended for any work around electric and power utilities, telecommunications equipment and installation sites, bridge and tower maintenance, cable and wire installation sites, industrial plant grounds, warehouses, farm structures and buildings.

Part No. 211310
14 oz. net wt. (397g) (Contents 20 fluid oz.)

ASSAULT II
CRAWLING & FLYING INSECT KILLER

Kills ants, bed bugs, carpet beetles, cockroaches, crickets, lice & their eggs, palmetto bugs, silverfish, spiders, waterbugs & more.

- **Water-based.**
- **Residual up to 60 days.**
- **May be used as a fogger.**
- **May be used for mosquito control.**

DUAL PURPOSE SPRAYER
Cone spray for flying insects
Stream spray for crawling insects

For commercial/agricultural use. Use outdoors, in homes, and non-food areas of food/feed processing establishments, kennels, commercial buildings, warehouses, theaters, office buidlings, schools, motels & hotels, bedding & furniture.

Active ingredient...25% Premethrin.

NO CFCs

Part No. 44420
17 oz. net wt. (482g) (Contents 20 fluid oz.)

SUNSCREEN WIPES

Protect yourself from the sun's harmful UVA & UVB Rays.

- **SPF "30".**
- **PABA-FREE.**
- **Sweat/Water Resistant.**
- **OIL-FREE.**
- **Retains SPF for up to 80 minutes of activity.**

Perfect for any outdoor job that exposes workers to the sun including: Construction • Road Crews • Roofing • Landscaping • Utility Work

Part No. 211650
Net Contents: 15, 6" x 8" Premoistened Towels

ZENKILL III - LONG SHOT WASP & HORNET KILLER

ZenKill III kills wasps, hornets, yellow jackets and bees in flight or on contact.

- **Long range - jet stream sprays up to 20 feet above ground.**
- **Fast acting, high strength formula instantly knocks down pest.**
- **Residual action continues to kill as insects return to nest.**
- **Non-conductive formula has a dielectric strength of 41,000 volts/cm.**

Recommended for outdoor use to destroy nests in telephone poles, trees, bushes, chimneys, cracks, crevices, attics, warehouses, and other areas.

NO CFCs

Part No. 211635
13 oz. net wt. (368g) (Contents 20 fluid oz.)

BACK FLIP
CRAWLING INSECT KILLER

A broad spectrum insecticide highly effective against ants, bees, carpenter ants, carpet beetles, cockroaches, centipedes, fleas, moths, scorpions & many other crawling insects.

- **Protects for up to 4 weeks.**
- **Provides quick killing action.**
- **Residual control.**
- **Kills hidden bugs.**
- **No unpleasant odor.**
- **Non-flammable spray VOC compliant formula.**

Recommended for commercial/industrial, household and non-food areas of industrial & institutional buildings, schools, warehouses, garages, office buildings, hotels/motels & more.

NO CFCs

Part No. 211637
14 oz. net wt. (396g) (Contents 20 fluid oz.)

FLY AWAY WIPES

Water based insect repellent formula.

- **No offensive odor.**
- **Leaves no sticky residue.**
- **Non-VOC formula.**
- **Repels mosquitoes that may carry / transmit the West Nile Virus.**

Provides up to 4 hours of protection from mosquitoes, black flies, stable flies, sand flies, gnats, chiggers, fleas & ticks.

Active ingredient...25% Deet.

Part No. 44441
Contains 40 6" x 8" premoistened Towelettes

WINDSHIELD DE-ICER

Quickly and effectively melts frost, frozen snow and ice coatings on windshield, other glass surfaces and locks.

- **Melts ice on contact.**
- **Frees frozen locks.**
- **Will not harm rubber, metal or plastic surfaces.**

Part No. 211404 (12)
12 oz. net weight (340g)

C14

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SPECIALTY ITEMS

ICE-OFF® SPRAY DE-ICER

- **Melts ice from windshields and lock cylinders.**

Part No. 211523 (12)
12 oz. net weight (CRC05346)

LOCK DE-ICER

- **Thaws frozen locks quickly and easily.**
- **Special tip fits into key holes. Simply squirt into lock.**

Part No. 211344
1/2 fl. oz.

STARTING FLUID

- **Quickly starts gasoline and diesel engines without glow plugs.**
- **Highest ether content.**
- **Effective to -50°F below zero.**
- **No waste, it all burns.**

Contains upper cylinder lubricants & anti-corrosive additives.

Part No. 13117 (12)
11 oz.(312g) net weight

WINDSHIELD WASHER SOLVENT CONCENTRATE

- **Formulated with special de-icing compounds.**
- **Helps provide clear and safer vision.**
- **Contains cleaning compounds to remove dirt, oil & road film.**
- **For use year-round.**

Prevents Freezing

De-Ices

PART NUMBER	SIZE	QTY
211271	16 fl. oz. (1 pt.)	24

DIRECTIONS

For protection to -5°F:
2:1 mix with water
2 parts water / 1 part solvent
For protection to -10°F:
1:1 mix with water
1 part water / 1 part solvent

For Spring and Summer:
Add 4 ounces to reservoir and fill with water.

GAS LINE ANTI-FREEZE

Prevents freeze-up and fuel system icing. Recommended for carbureted, fuel injected and turbocharged engines.

- **Absorbs moisture.**
- **Inhibits rust.**
- **Contains Isopropyl alcohol.**
- **Safe for fuel injection systems (OE manufacturers strongly advise against use of methanol which will damage injection components.)**

Part No. 211456 (24)
12 fl. oz.

GAS STABILIZER (Store-It Start It)

- **No need to drain gas from engines stored between seasons.**
- **Protects from gas deterioration that gums up fuel systems.**
- **Assures instant start-up. No messy cleanup & costly repairs.**
- **Ratio of 2 oz.: 1 gallon gasoline.**

Part No. 211347
6 oz. can with measuring cap
Ideal for lawnmowers, outboards, snowmobiles, chain-saws and small gas-fueled engines.

Part No. 211369
20 oz. can with measuring cap
Cars, trucks, antique & classic autos, RV's, boats, farm equipment, large lawn & garden equipment.

DIESEL PEP® w/Anti-Gel FLOW IMPROVER L82

This is the finest cleaner your money can buy. Fights ice and wax, and cleans injectors and fuel lines.

- **Dissolves carbon, gum and sulphur from injector nozzles giving you the cleanest burn, resulting in increased power, decreased fuel consumption and less smoke emissions - plus an upper cylinder lubricant.**
- **Without water accumulation on the fuel filter, ice wil not form to stop the flow of fuel to the fuel injection pump.**
- **Prevents rust and acid formations.**
- **Contains no alcohol, raises cetane number, contains lubricity additive.**

Part No. 211612 12
12 fl. oz. net weight (085-912)
Treats 50 gallons

Part No. 211614 12
1 qt. net weight (085-932)
Treats 150 gallons

FUEL INJECTOR CLEANER

A must with every tune-up.

- **Premium concentrated formula.**
- **Cleans intake valves, ports, fuel lines, fuel tanks, manifold and PCV valve.**
- **Disperses water, lubricates injectors.**
- **Helps stop dieseling and engine run-on.**
- **For use in unleaded and leaded gasolines, gasohol and diesel fuel.**
- **Will not harm catalytic converter and all sensors.**
- **Meets BMW specification part #88886900307.**

Part No. 211401 (12)
12 fl. oz. (355 ml.)

Does Not Contain Methanol

FUEL THERAPY™ FUEL INJECTOR CLEANER PLUS w/Anti-Gel

In weather below 50°F, start using Fuel Therapy™ with Anti-Gel to prevent diesel from waxing and clogging the fuel system.

All the benefits of Fuel Therapy Fuel Injector Cleaner Plus and:
- **Prevents diesel fuel gelling.**
- **Lowers cold filter plug point by as much as 31°F.**
- **Reliquefies gelled fuel.**

Part No. 211618 12
12 fl. oz. net weight (CRC05412) **Treats 35 gallons**

Part No. 211489
1 qt. net weight (CRC05432) **Treats 125 gallons**

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SPECIALTY ITEMS

QUICK FLOW™ EMERGENCY FUEL-GEL RELIEF

Instantly works to dissolve gelled fuel. This product contains anti-gel - no additional products are needed for optium performance.

- Reliquefies gelled fuel in minutes.
- Thaws frozen fuel filters.
- Totally disperses water.
- Lowers pour point by as much as 35°F.

Keep In Truck For Emergencies

Compare To Power Sservice® Diesel 9•1•1™

Part No. 211522
1 qt. net weight (CRC05911)
Treats 30 to 125 gallons

VALVE / O-RING LUBE and SEAL

- Used for general o-ring and valve lubrication.
- Goes on as a heavy translucent white coating paste with a high dielectric strength to block out moisture and oxidation.
- Used on sanitary, butterfly, gate, ball and automated valves. Also anywhere rubber or plastic o-rings are used for pump packing or vacuum or pressure systems.
- Temp. range -40°F to 400°F.
- Authorization-NSF5&61 FDA21 CFR175 300

Part No. 711745
5.3 oz. net wt. tube

HYDRAULIC JACK OIL

- A heavy-duty, high pressure, anti-wear, and non-corrosive hydraulic jack oil.

Part No. 711747
32 oz. net wt.

SNOW PLOW OIL

- Improved formula hydraulic fluid.
- Blue non foaming anti wear formula with anti-freeze additive protects to extreme conditions down to (-50°F).

Replaces Meyers® 15134 Western49311 Fisher® 28531, Sno-Way® 96005029

Part No. 711797
32 oz. net wt.

SNOW PLOW QUICK-LIFT

- Quick-lift is a heavy duty universal hydraulic fluid with anti-wear additives that also help prevent cold weather hesitation.

Part No. 711798
32 oz. net wt.

10 MINUTE RADIATOR FLUSH

- Dual-action formula quickly removes grease and scum, plus loose rust and scale.
- deal for use when changing anti-freeze coolant.
- Contains no acids, requires no neutralizer.
- Safe for use in all cooling systems.

Part No. 211526 12
11 fl. oz.

DOT 3 and DOT 4 BRAKE FLUID

- DOT 3 heavy duty brake fluid meets SAE minimum boiling requirement of 401°F. Excellent for most types of systems, including disc or drum, front or rear wheel drive.
- DOT 4 advanced formula far exceeds SAE requirements of 446°F boiling point. High corrosion resistance. Ideal for high temperature braking systems. OEM specified for ABS brake systems.

TYPE	12 OZ. CONTAINER	QTY	32 OZ. CONTAINER	QTY
DOT 3	**211527**	24	**211528**	12
DOT 4	**---**	-	**211531**	12

ANTI-RUST with WATER PUMP LUBE

- Mixes with all ethylene glycol based anti-freeze/coolants.
- Prevents evaporation, formation of rust, and corrosion.
- Keeps entire cooling system clean and running efficiently.
- Lubricates and protects all aluminum and/or metal parts, hoses, and seals.

Part No. 211535 12
11 fl. oz. (325ml.)

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SPECIALTY ITEMS

POWER STEERING FLUID for HONDA® VEHICLES

- Specially developed for Honda® and Acura® vehicles.

Part No. 211533 6
12 fl. oz. (355ml.)

POWER STEERING FLUID

- Non-corrosive, non-foaming formula.
- Stops squealing, protects seals and helps prevent abnormal wear.
- Formulated with detergent additives to promote cleaner operating system.

Part No. 211532 6
12 fl oz. (355ml.)

Part No. 211599
Quart, 32 fl oz. (946ml.)

METERED AIR FRESHENER SPRAY

- Metered Air Freshener Spray, for use in automatic dispensers.
- Specially formulated to cleanse air of offensive odors.
- Contains an odor counteractment that eliminates odors.
- Dispenses over 3,800 metered sprays for 40 days when set to activate at 15 minute intervals, 24 hrs. a day.
- Effective in areas up to 6,000 sq. ft.

PART NUMBER	DESCRIPTION	QTY
211121	Green Apple	12
211122	Baby Powder	12
211123	Island Breeze	12

PART NUMBER	DESCRIPTION	QTY
211124	Orchard Spice	12
211148	Lemon Ice	12
211149	Fresh Linen	12

AUTOMATIC METERED DISPENSER

- Variable burst rate - adjustable intervals from 5 to 15 minutes.
- Operates up to one year on two D cells.
- High impact poly case, off-white color.
- LED lights indicate 3000 spray cycle.

Part No. 211100

BATTERIES NOT INCLUDED

RELATED PRODUCT
"D" Cell Batteries
Part No. 812902 Duracell
or
Part No. EV-D-12 Eveready

CITRUS MAGIC®

Odor-eliminating air fragrance for use in buildings, vehicles, boats, etc.

- 100% natural citrus ingredients – out performs artificial fragrances found in ordinary air sprays.
- Cleans and freshens the air – works on smoke, food, mildew odors, garbage cans, bathrooms, etc.
- Hypo-allergenic and environmentally safe – even used in hospitals around asthmatics and allergy sufferers.
- Unique pressurized, non-aerosol container — easy and convenient to use without freon, hydrocarbons, etc.

Part No. 211408 (12)
7 fl. oz. Industrial size

SCENTED ODOR CONTROL PRODUCTS

"CHERRY BLOSSOM AROMA"

Used by: Taxi Fleets, Car Dealers, Detailers, Motels, Apt. Complexes, Municipal Buildings, Schools, Buses, Trains, Stores, Hospitals, Restaurants

- Neutralizes indoor and outdoor odors… instantly.
- Mix 4:1 with water for general odor control.
- Will not stain or harm fabrics.
- Leaves a fresh clean scent.

Part No. 211285G1
1 gallon container

USE TO CONTROL ODORS CAUSED BY:
- Garbage cans and trucks.
- Sewers & Sewage disposal areas.
- Garbage dumps, Incinerators.
- Kennels, Locker rooms, Rest rooms.
- Use alone or with sand cigarette urns.

PERFECT SOLUTION
Concentrated Cleaner-Degreaser

Biodegradable • Non-Toxic • Non-Abrasive • Non-Corrosive

Perfect Solution is a highly effective all purpose cleaner/degreaser that can be used on most hard surfaces that are not damaged by water. It attacks and obliterates the toughest dirt and grime and is an environmentally friendly product.

- Concentrated formula is economical to use by diluting.
- Pleasant fragrance & non-flammable.
- Safe to use on most washable surfaces.
- Emulsifies dirt to allow for easy rinsing.
- USDA C1 authorized for use in federally inspected meat packing plants.
- Can be sprayed, brushed or mopped on and can be used at a dilution ratio of 1 oz. per gallon to full strength.

Part No. PFS485
Available in quarts, gallons & bulk

ODOR COUNTERACTANT DRC655

DRC655 is a genuine odor counteractant. It does not mask or disguise odors: it actually changes them chemically by blocking their structures.

- DRC655 neutralizes the source of the odor.
- Blocks the smell of malodors.
- Leaves area with a fresh and clean scent.

DRC655 Odor Counteractant is a natural solution to odor control, through safe and effective odor neutralization, that works in a wide range of significant malodor applications.

Part No. DRC655
Available in quarts & bulk

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freshwaveIAQ
Natural Odor Eliminator

Used by the following:

Hertz (Worldwide)

Walt Disney World, Orlando, FL

Reliant Stadium, Texas

Denver VA Hospital, Colorado

West Oaks Senior Care, MI

Gap Store, New York City

Rockerfeller Plaza, New York City

Hanover College, Indiana

University of Chicago Hospital, IL

St. Benedicts Long Term Care, IL

Commercial Strength Odor Remover:

Fast Acting • No Fragrances • No Perfumes • No Masking

READY TO USE AIR & SURFACE

Rapid, targeted odor control. It instantly bonds to and eliminates odor molecules in the air & those that have been penetrated or rested on surfaces or fabrics.

- It's simple to use. Just spray the affected areas and the odor will be eliminated.
- The odor is permanently eliminated - it will not return unless the source of the odor is introduced again.

Part No. **44463**

PART NO.	SIZE
44463	Spray Liquid 32 oz.
44414G1	Gallon Liquid
44415G5	5-Gallon Liquid

GEL FORMULA

Open jar & place in problem area. Gel will evaporate as it works. Replenish as needed.

Ideal for:

Fitness Rooms • Rest Rooms
Medical Rooms • Patient Rooms
Resident Rooms

Part No. **44460** Part No. **44406**

PART NO.	SIZE
44460	Gel 8 oz. jar
44406	*Gel Holder - Holds 8 oz. size only
44461	Gel 16 oz. jar
44462	Gel 24 oz. jar

*Holder/Wall Unit - Designed to hold 8 oz. gel, plastic with double faced tape for easy mounting.

PSS092412

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SPECIALTY ITEMS

MILDEW & STAIN REMOVER DEVOUR

Fast acting professional grade ready-to-use formula

- **Removes tough mold & mildew stains.**
- **Cleans, whitens & deodorizes.**
- **Heavy duty cleaning agents cut through greasy, oily spots.**
- **Use regularly to prevent mildew and its odors.**
- **Leaves a fresh "lemon scent".**

Non-Hazardous

Part No. 682502
Available in quarts

LIQUI-ZYME 600

Biodegradable • Non-Caustic • Non-Toxic • Non-Corrosive

Liqui-Zyme 600 is a highly developed bio-chemical formulation consisting of a synergistic blend of three selected Bacillus microorganisms. This blend selection of bio-strains is specifically designed to promote optium enzymatic activity with a bacteria count of 200 billion per gallon.

Liqui-Zyme 600's formulation is capable of resolving the following sanitary maintenance requirements:

- **Bathroom odor control and maintenance cleaning.**
- **Carpet and fabric stain and odor control.**
- **Laundry pre-spot and pre-soak applications.**
- **Drain line and grease trap treatment.**
- **Municipal collection systems and septic tank care.**

Part No. LQZ600
Available in quarts, gallons & five gallon pails

GREEN KLEEN GRK420

Green Kleen Is a quaternary disinfectant.

- **Green Kleen is a ready-to-use spray and wipe cleaner that instantly removes dirt, built-up grime and greasy smudges from most washable surfaces.**

Cleans & Disinfects on contact:
just spray it on and wipe it off. It's oil emulsifying and cleaning properties make it excellent for cleaning & deodorizing while leaving a fresh, clean fragrance.

Part No. GRK420
Available in quarts, gallons & bulk

P-FREE

Uratic Salt Remover

P-FREE is a labor saver, since it cleans, deodorizes and easily removes stains and soils with little or no effort.

FEATURES	BENEFITS
Powerful and special blend of acids.	Dissolves uric acid salt build-up, mineral scale and rust.
Fast acting and easy to use.	Helps eliminate source of odors in urinals.
Phosphate free.	Keeps drains free flowing and prevents future build-ups.
Non-flammable.	Safe on all plumbing, including PVC plastics and metal pipes.

Part No. 211625

ODORCIDE® 210 CONCENTRATE - SERIOUS ODOR PROBLEMS

Any Surface • Anywhere • Anytime

- **All purpose formula that permanently eliminates deeply imbedded odors.**
- **Does not mask odors; it eliminates them.**
- **Immediate results, no dwell time.**
- **Completely eliminates serious odors caused by animals, human urine, feces, male cat spray, decaying organic matters, mold and mildew.**
- **Safe and economical concentrated formula.**
- **Leaves a pleasant scent.**
- **Non-toxic, non-irritating, non-flammable.**
- **Non-staining, non-ionic and non-carcinogenic.**
- **Biodegradable, water based, non-corrosive.**
- **Use in restrooms, locker rooms, hospitals, nursing homes and anywhere foul odors hide.**
- **Fully compatible with detergents, germicides and cleaning agents.**

NOT HAZARDOUS!

Guaranteed to Work When Used as Directed

PINTS Concentrate
16 oz. (474ml)
Part No. 44434

QUARTS Ready-To-Use Spray
32 oz. (946ml)
Part No. 44436

GALLONS Concentrate
128 oz. (3.79L)
Part No. 44435G1

ODORCIDE® 210 CONCENTRATE - DUMPSTER & CHUTE

Not a Mask • Not an Enzyme

- **Specifically formulated to eliminate odors commonly found in trash dumpsters, chutes, garbage cans and the areas surrounding them.**
- **Eliminates smelly and unclean dumpsters that can lead to serious health code violations.**
- **Does not mask odors.**
- **It is not an enzyme.**
- **Counteracts and absorbs safely and effectively.**
- **Concentrated formula is very economical.**
- **Use in hotels, hospitals, restaurants, construction sites, offices, industrial plants and more.**

NOT HAZARDOUS!

The One That Works

PINTS Concentrate
16 oz. (474ml)
Part No. 44433

GALLONS Concentrate
128 oz. (3.79L)
Part No. 44432G1

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SPECIALTY ITEMS

QUICK ACTION CONTROL - Liquid Live Bacteria/Enzyme Product

SAFELY OPENS CLOGGED DRAINS & DESTROYS ODORS

Live bacteria/enzyme products contain a synergistic blend of engineered bacterial strains for effective removal of various soils. Fortified with free enzyme and detergents.

This product digests and liquifies organic waste, grease and food-by-products and is non-toxic, non-acid, non-alkaline, non-pathogenic and 100% ecologically safe.

Quick Action Control will eliminate odors created by organic waste in urinals, toilet bowls, carpets and drains. Used periodically, this product will serve to keep drains free of stoppage caused by organic waste.

NOTE: Do not subject product to extremely hot or boiling water, disinfectants, or chlorinated dishwashing products.

USDA: Authorized by USDA for use in federally inspected meat and poultry plants. Potable water rinse is required in federally inspected meat and poultry plants.

Part No. 211468 12
32 fl. oz.

HIGHLIGHTS

- High bacteria count.
- Blend of 4 bacterial strains.
- Excellent for drains and grease traps.

TYPICAL PROPERTIES

- pH: 8.4
- Specific gravity: 1.00
- Appearance: white milky liquid.
- Fragrance: pleasant.
- Enzyme activity:
- USDA: C-1

  Alpha Amylase (starch degrading) Lipase (fat degrading)
  Protease (basic & neutral protein degrading)
  Cellulose (paper degrading)
- Bacteria type (100% spores):

  Bacillus Laevoiacticu Bacillus Amylolquefaciens
  Bacillus Licheniformis Bacillus Pasteuril
- Bacteria count: 100 billion/gallon
- Kosher certified.

SAFETY CAUTIONS

- Keep out of reach of children.
- It is recommended that protective gloves and safety glasses be worn when using this product.
- Non-hazardous.

PAN-STICKER GELTABS

- Gel tabs lock into place for long lasting cleaning action in condensate drain pans & lines.
- Cleans sludge, and other stale & musty water odors.
- Works immediately & is long lasting for up to 6 months.
- 100% biodegradable, nothing to throw away.
- Prevents costly repairs, Computer room safe.

Used by: hospitals, office buildings, schools, food prep areas, industrial plants & more.

One Tablet Treats Up To 5 Tons

Part No. 211605
Contains 6 geltabs

INSTANT LIQUID & VOMIT ABSORBENT

"SUPER-SORB"

- Absorbs 60 times its own weight immediately.
- Soaks up vomit, blood, urine and other spills - saves clean-up time.
- Quat and microbicide eliminate odors.
- Ideal for use in grocery stores, restaurants, hospitals, nursing homes, day care facilities, health clinics, school buses, schools, etc.
- Lemon fragrance, granular powder.

Part No. 211359 6
14 oz. net wt.

COIL FOAM - Non-Acid Coil Cleaner & Renovator

Part No. 44402G1-4
(Sold in case quantities of 4 ONLY)

Part No. 44401
E-Z Sprayer & Holster

Use it for: air conditioners, ice machines, cold storage compartments, refrigerators, freezers.

Used by: HVAC techs, building superintendents, schools, hospitals, nursing homes, restaurants.

- Highly concentrated, industrial strength, liquid coil cleaner.
- Superior foaming action produces a thick clinging foam for extended contact time.
- Simply dilute to desired strength.
- Spray on and rinse off.
- Fast acting, non-fuming, non-acid.
- Penetrates, cleans & reconditions, fully renovates and restores dirty coils.

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SPECIALTY ITEMS & BULK CHEMICAL ACCESSORIES

ALKALINE DRAIN OPENER

Ready to Use • Powerful & Fast Acting • Non-Fuming • Non-Acid

- Harmless to cast iron, PVC, ABS, steel rubber gaskets, grease traps and septic tanks.
- Opens A/C condensate lines from slime build up.
- Dissolves x-ray film processing residue.
- Non-fuming institutional grade.
- Fast acting: breaks down tough clogs formed by hair, grease and fat quickly.
- Penetrates through standing water.
- Stronger than any other alkaline drain opener on the market today.
- Contains no bleach or fillers.

PART NUMBER	DESCRIPTION	QTY
211513	1 Quart (32fl. oz)	12
211513G1	1 Gallon (3.78L)	4

SEWER & DRAIN OPENER

Ready to Use • Powerful Professional Strength

- Sulfuric acid drain opener, 95% virgin, odorless, red color.
- Reacts with organic stoppages to completely disintegrate residues, paper, sanitary napkins, hair & food greases.
- Intended for use by only trained personnel or professional plumbers.
- Will not harm septic systems or pipes.

Do Not Use On Aluminum

Use With Cold Water Only

Part No. 44455 12
1Quart (32fl. oz.)

SPRAY BOTTLES & SPRAY HEADS

- 32 ounce capacity.
- Heavy duty polyethylene bottle.
- Drip proof trigger.
- Adjustable nozzle, fine mist to steady stream.
- Great for all types of uses.

32 oz. SPRAY BOTTLE with GENERAL PURPOSE SPRAY HEAD

Part No. 211249 (12)

32 oz. SPRAY BOTTLE with HEAVY DUTY SPRAY HEAD

Part No. 211259 (12)

REPLACEMENT SPRAY HEAD ONLY

GENERAL PURPOSE	HEAVY DUTY
Delivers 1-1/4 oz. per stroke	Delivers 1-1/4 oz. per stroke
211251	211252

METAL DRUM PUMP

- Self priming.
- 22 ounces per stroke.
- Universal use.
- For use with 20, 35 or 55 gallon drums.

22 ounces per stroke

CAUTION
Not To Be Used In Flammable Or Explosive Material Or Liquid.
Not UL Approved.

Part No. 211247

5 GALLON DISPENSING JUG

- Tough and rugged polyethylene.
- Vent cap.
- Exceeds D.O.T. 2U requirements.
- E-Z dispensing faucet.
- Convenient carrying handle.

Part No. 211244

Not intended for transportation or storage of fuels.

PLASTIC DRUM PUMP

- Universal. Fits all sizes of drums and pails from 5 gal. up to 55 gal.
- 8 oz. per stroke.
- Complete with adapters to change stroke output to 4 oz. or 2 oz.
- Polyethylene will not rust or corrode.
- Fits 3/4" and 2" drum openings, and 5 gal. pails with Rieke Senior Spout.

Part No. 211260

DRUM FAUCETS

For dispensing liquids from bulk containers.

- Built-in flame arrestor - safe for flammable or non-flammable liquids.
- Brass body - eliminates sparks.
- Accepts padlocks - prevents unauthorized use.

SAFETY FAUCET

Part No. 211478

SELF CLOSING FAUCET

Part No. 211479
Similar to above but for non flammable liquids only.

Do not use either with acids, high alkalines or chlorinated solvents.

DRUM PLUG WRENCHES

Easily opens steel, fibre, and plastic drums.

- Universal fit - all plug types.
- 15-1/2" length - plenty of leverage and knuckle clearance.

PART NUMBER	USED FOR	CONSTRUCTION
211482	non-flammables only	ductile iron
211483	flammables or non-flammables	zinc - aluminum alloy
211484	flammables or non-flammables	manganese - bronze alloy

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BULK CHEMICAL ACCESSORIES

DRUM DOLLY

Moves 55 gallon steel and fibre drums.

- Welded steel construction - prevents frame failure.
- Bolted caster for easy replacement.
- Reinforced outrigger design gives greater load stability and caster life.
- 23-1/2" I.D., 6" high, 900 lb. capacity.

Part No. **211480**

DRUM CRADLE

To tip, drain, store, rotate and move 55 or 30 gallon steel or fibre drums.

- Telescoping 64" handle - 1 person can easily use it.
- Polyolefin cradle wheels - eliminates spark potential.
- Heavy duty welded braces, carbon steel hook and toe - prevents weld failure.
- Unassembled - UPS shippable. (approx. 50 lbs.)
- 25" high, 12" wide, 20" drain height, 600 lb. capacity.

Part No. **211481**

DRUM TROLLEY

- Metal frame.
- Four caster.
- Fits 35 lbs. (5 gal. pail)

Part No. **211289**

55 GALLON DRUM DRAIN FUNNEL

- Heavy duty plastic, highly durable, resists dents and chemicals.
- Fits 55 gallon drums.
- Eliminates overspills while pouring or transferring liquids.
- Funnel spout fits into the top bung hole for draining purposes.

Part No. **113309**

PLASTIC SPRAYERS

- Copolymer tank built for durability and resistance to chemicals.
- 8" diameter tank with large opening.
- Embossed fill marks.
- Threaded ABS cap closure.
- ABS pump tube.
- Solid brass nozzle (adjustable).
- Polypropylene pump barrel.
- 3/8" spiral knit reinforced vinyl hose.
- Lock-on feature built into valve.
- Oil-resistant valves and gaskets.
- Metal "D" handle for operating comfort.

PART NO.	CAPACITY GALS.	CAPACITY LITERS	LENGTHS (INCHES) PUMP	HOSE	EXT.
211262	2	7.6	7	30	12
211263	3	11.4	9	30	18

H.D. ACID SPRAYERS

- Thick-walled copolymer tank.
- Acid-resistant pump cylinder and valve.
- Trigger lock nut to prevent accidental discharge.
- Embossed fill marks.
- ABS chemical-resistant pump tube.
- Threaded cap closure.
- Adjustable brass nozzle.
- Metal "D" handle for operating comfort.

PART NO.	CAPACITY GALS.	CAPACITY LITERS	LENGTHS (INCHES) PUMP	HOSE	EXT.
211264	2	7.6	7	42	12
211265	3	11.4	9	42	15

SURE SHOT SPRAYERS

THE AEROSOL SPRAY CAN... YOU DON'T THROW OUT...HANDLES THOUSANDS OF LIQUIDS

- Adhesives
- Anti-rust agents
- Belt dressings
- Cleaning fluids
- Degreasers
- Glass Cleaners
- Light oils
- Lubricants
- Motor cleaners
- Oils
- Penetrating oils
- Pesticides
- Sealants
- Solvents
- Water
- Weed killers
- White wall tire cleaners

HEAVY DUTY MODEL

- Steel enameled sprayer for heavy duty use.
- Spring loaded trigger.
- Adjustable nozzle-direct stream to fine mist.
- Working pressure: 90 - 120 psi., max. 200 psi.
- For use with water, oil or solvent based solutions.
- Do not use with ammonia base solutions.

Part No. **211237**
1 qt. capacity

Automotive service

Electrical/electronic maintenance

General maintenance

Building maintenance/ pest control

AIR SPRAYER

HAND PUMP PRESSURIZED

- Self priming.
- Strong polyethylene tank.
- Light weight.
- 2 quart capacity.
- Adjustable nozzle, fine mist to direct spray.
- Hand held.
- Smooth, quick hand held pump operation.
- Cannot over pump.

Part No. **211245**

CAN-GUN AEROSOL SPRAY CAN TRIGGER HANDLE

- Firmly snaps on most aerosol spray cans of paints, lubricants, cleaners, adhesives, insecticides, and more.
- No more tired, sticky, messy fingers.
- Accurate and comfortable spray control.

Part No. **211238**

ACCESSORIES

Part No. **211241**
Flexible brass extension, 12" with nozzle & adapter for use with 211237.

Part No. **211243**
Replacement Adjustable nozzle for 211237.

NOTE: Sprayers are warranted by the manufacturer. Defective units must be returned directly to the manufacturer. Please contact our Sales/Service department for instructions.

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NEW IMPROVED PROLINE FORMULA INDEX

QUICK REFERENCE INDEX C15 PROLINE

PRODUCTS	PAGES
Adhesives & Sealants	C15-2-3
Cleaners	C15-3-5
Lubricants	C15-1-2
Product Specifications & Applications	C15-6-14
Specialty	C15-5

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NEW IMPROVED PROLINE FORMULA

STOCK #	PRODUCT NAME	PRODUCT DESCRIPTION
LUBRICANTS		
NPL103	**ONE SHOT**	Sprays Thin To Penetrate, Sets Up Thick To Lubricate
NPL107	**NOSWEAT**	Eliminates Moisture To Restore Conductivity
NPL111	**CUTRIGHT**	Keeps Cutting Tools Cool For Longer Life
NPL115	**GRIPPER**	Eliminates Belt Slipping And Squealing
NPL119	**INVADER**	Frees Frozen Fasteners In Minutes
NPL123	**FORCE**	Protects Chains, Cables And Wire Rope
NPL127	**CLING-ON**	Extends Gear Life Under Extreme Pressure Use
NPL131	**APOLLO**	Protects Threaded Fasteners Under Extreme Conditions
NPL134	**MIDNIGHT RIDER**	A Quick Drying Lubricant That Clings To The Surface
NPL137	**SLIDER**	Eliminates Friction, Squeaking, Binding and Sticking
NPL140	**DEVIL**	High Heat, Extreme Pressure Lube In A Gel Form
NPL146	**THICK N STICKS**	A Super Thick Silicone Gel with TEFLON®
NPL164	**E. P. REX**	A Premium, High Impact Resistant Red Grease
ADHESIVES & SEALANTS		
NPL202	**ADHERE**	For Fast Setting Permanent Bonds
NPL205	**SHIELD**	A Tough Long Lasting Rubberized Coating
NPL207	**Seali-Wiz / Red**	The Tight Sealing RTV Gasket Maker That Resists High Heat
NPL210	**Seali-Wiz / Clear**	An RTV Sealant And Adhesive For A Tough & Versatile Bond
NPL213	**SPIDEY**	Quickly And Effectively Bonds With Its Web-Like Adhesive
CLEANERS		
NPL304	**MASTER CLEAN**	Heavy Duty Non-Flammable Cleaner That Dries Instantly
NPL307	**DOMINATOR**	Quickly Strips Away Paint And Varnish
NPL310	**FOAMAWAY**	A Powerful Deep Cleaning And Degreasing Agent
NPL313	**SHARK**	Increases Unit Efficiency On AC And Refrigeration Coils
NPL316	**ZAP**	A Complete Battery Maintenance System In One Aerosol Can
NPL319	**MAGIC**	Quickly Removes Stains From Carpets And Upholstery
NPL321	**VISION**	The Ammonia Fortified Cleaner For Glass And Non-Porous Surfaces
NPL324	**GLISTEN**	Restores And Protects Vinyl, Rubber And Plastics
NPL327	**KOOLZ**	Continuous Cleaning For Heating And Cooling System
NPL330	**BLAST**	Safely Removes Dust And Particles From Sensitive Equipment
NPL342	**APPEAL**	Fights Grease And Grime, Leaves A Pleasant Fragrance Behind
NPL345	**RITEOFF**	Quickly Penetrates And Removes Graffiti
NPL351	**RELEASE**	For Instant Removal Of Labels, Stickers And Decal's
NPL354	**DIAMOND**	Cuts Through Heavy Dirt To Make Your Windows Shine
NPL357	**BLITZ**	Blasts Away Grease And Oil Leaving No Residue Behind
NPL363	**WIPEOUT**	Wipes Away The Marks That Vandals Leave Behind
NPL366	**ORANGE AID**	The Fast Flushing Citrus Cleaner
SPECIALTY		
NPL503	**SNOWAY**	The Non-Stick Outerwear For Your Snowplow

FOR PRODUCT SPECIFICATIONS & APPLICATIONS SEE CATALOG PAGES C15-6 thru C15-14

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NEW IMPROVED PROLINE FORMULA

ONESHOT with Teflon®

Synthetic Penetrating Gel-Lube

**Sprays Thin To Penetrate,
Sets Up Thick To Lubricate.**

- ONESHOT is a unique all-purpose lubricant.
- A special combination of Teflon® and synthetic lubricants with a high molecular weight polymer allow ONESHOT to penetrate, coat, and cure to a grease-like gel.
- ONESHOT reduces friction, heat, and wear while preventing rust and corrosion.
- ONESHOT is a clear gel that is invisible when cured.

Part No. NPL103

NO SWEAT

Non-Flammable Moisture Displacer

Eliminates Moisture To Restore Conductivity.

- A thin residual film protects electrical equipment against shorts and current drain caused by dampness.
- Long lasting protective coating dielectrically seals out moisture.
- Non-Flammable Moisture Displacer lubricates, reduces friction, increases life of component, protects against rust and further corrosion and is non-conductive.

Part No. NPL107

CUTRIGHT

Low Friction Cutting Foam

Keeps Cutting Tools Cool For Longer Life.

- CUTRIGHT is ideal for all metals, including hard-to-work metals like stainless steel, titanium, tungsten, magnesium, and molybdenum
- Unique foaming action holds to tool area, feeding into tool as required, this provides the perfect balance of lubrication and cooling in all machining operations including cutting, tapping, drilling and sawing operations.
- Non-rusting and non-corrosive.

Part No. NPL111

GRIPPER

Belt Conditioner

Eliminates Belt Slipping And Squealing.

- GRIPPER helps stop slippage, squeaks and annoying noise.
- Prevents lost power and wasted energy by improving grip.
- Conditioners penetrate belts to extend life, reduce downtime and lower maintenance costs.

Part No. NPL115

INVADER

Non-Flammable Rust Penetrant

Frees Frozen Fasteners In Minutes.

- INVADER works fast to loosen rusted, corroded parts and fasteners.
- Capillary action of INVADER defies gravity by climbing vertical threads.
- Lubricates to reduce friction to eliminate bending and "snapping" of frozen parts.
- INVADER leaves a protective film to inhibit future rust and corrosion.

Part No. NPL119

FORCE

Penetrating Chain And Cable Lubricant

Protects Chains, Cables & Wire Rope.

- FORCE, with Moly additive lubricates and protects chain, cable and wire rope.
- Sprays on as a light foam - cures to a semi-greasy oil.
- Penetrates into the core of wire rope and chain links.
- Protects against galling, wear and seizing.
- Reduces vibration, noise and chain whip.
- Special Moly additive reduces friction and resists high temperature breakdown.

Part No. NPL123

CLING-ON

Extreme Pressure Open Gear Lubricant

**Extends Gear Life
Under Extreme Pressure Use.**

- A lubricant with excellent adhesion and heavy viscosity providing a tough lubrication that will not drop or be thrown off.

Part No. NPL127

APOLLO

Extreme Range Lubricant & Anti-Seize

**Protects Threaded Fasteners
Under Extreme Conditions.**

- APOLLO is a non-petroleum, heat resistant compound containing aluminum, graphite, copper and fine metallic particles.
- Extreme temperature protection up to +2200°F.
- Prevents carbon fusion.
- Won't cake, coke or evaporate. Will not wash out.
- Protects against extreme pressure, galling and cold welding.
- Won't sling off or throw off.
- Makes disassembly of parts easy - even years after application.

Part No. NPL131

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NEW IMPROVED PROLINE FORMULA

MIDNIGHT RIDER

Bonded Dry Film Lubricant

A Quick Drying Lubricant That Clings To The Surface.

- MIDNIGHT RIDER is a superior dry film lubricant, formulated with molybdenum for long lasting lubrication and anti-seize properties.
- Withstands high pressure, high temperatures, water and chemical attack.
- The dry film is ideal for use in dusty, dirty locations by avoiding dirty build-ups.
- Formulated without methylene chloride for a more user friendly environment.

Part No. NPL134

SLIDER

Multi-Purpose Silicone Lubricant

Eliminates Friction, Squeaking, Binding & Sticking.

- SLIDER is a clear lubricant and preservative.
- It is specially formulated to leave a slippery, continuous film that facilitates a wide range of applications.
- This lubricant is designed to penetrate the surface pores of synthetics, certain plastics, rubbers, neoprene, wood, fabrics, etc.

Part No. NPL137

DEVIL Red Grease

Extreme Pressure Lubricant

High Heat, Extreme Pressure Lube in Gel Form.

- DEVIL Red Grease is a heavy-duty all-purpose lubricant formulated with extreme pressure, extreme temperatures, and anti-wear additives.
- DEVIL resists water, steam, salt spray, oxidation and most acids.
- Contains rust and corrosion inhibitors.

Part No. NPL140

THICK-N-STICKS

Professional Silicone Gel

The Super Thick, Silicone Gel with Teflon®.

- THICK-N-STICKS contains three times more pure silicone than competitive brands and outperforms all conventional silicone lubricants.
- THICK-N-STICKS is TEFLON® fortified for extreme pressure (EP) applications.
- THICK-N-STICKS high viscosity gel will not run, drip or sag on vertical surfaces.
- Lubricates better, lasts longer.

Part No. NPL146

EXTREME PRESSURE REX

Premium Complex All Purpose Red Grease

A Premium Quality, High-Impact Resistant Red Grease With Anti-Wear Additives.

- An all purpose non-melt grease specially fomulated with extreme pressure and anti-wear additives to provide heavy duty service.
- Withstands heavy shock loads and impact pressures.
- Excellent adhesive and cohesive properties.
- Resists most acids, weather, dirt, salt spray, steam and oxidation.

Part No. NPL164

ADHERE

Super Stick Adhesive

For Fast Setting Permanent Bonds.

- ADHERE is a translucent, general purpose adhesive, that is strong, easy to use to bond a variety of materials.
- Produces fast setting, water-proof, non-wrinkling and flexible bonds that permit folding.

Part No. NPL202

SHIELD

Heavy Duty Black Rubber Coating

A Tough Long Lasting Rubberized Coating.

- SHIELD creates a tough, long-lasting, black rubberized protective against rust and corrosion.
- Coating is durable, long-wearing and abrasion resistant.
- Excellent for cars, trucks, buses, HVAC equipment, construction equipment and any metal surface where corrosion protection is needed.

Part No. NPL205

SEALI-WIZ Red

Hi-Temp Silicone RTV Gasket Maker

The Tight Sealing RTV Gasket Maker That Resists High Heat.

- Low volatile, low odor formula.
- From -60° to + 650°.
- Safe for oxygen sensors.
- Meets OE warranty requirements.

Part No. NPL207

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NEW IMPROVED PROLINE FORMULA

SEALI-WIZ Clear

Hi-Performance RTV Sealant & Adhesive

An RTV Sealant And Adhesive For A Tough And Versatile Bond.

- A high performance compound used in hundreds of applications.
- Remains flexible and won't crack or shrink.
- Non-sagging for vertical and overhead use.
- Seals and Adheres to virtually any surface.
- Stands up to extreme weather conditions.

Part No. NPL210

SPIDEY

The Super Bonding Web-Like Adhesive

Quickly And Effectively Bonds With It's Web-Like Adhesive.

- A fast drying, high strength adhesive that provides a strong bond to most substrates and is heat, moisture, and water-resistant.
- Package is equipped with a unique 3-way adjustable spray nozzle.
- This enables technicians to vary the width of the spray pattern with minimal overspray.
- Will bond carpets, urethane foam insulation, vinyl tops, kick pads, upholstery, headliners, etc.

Part No. NPL213

MASTER CLEAN

Non-Flammable Solvent Base Cleaner & Degreaser

The RTV Gasket Maker Designed For Multi-Purpose Use.

- MASTER CLEAN is a high quality solvent that is non-flammable in normal use.
- Cleans equipment and machinery - safely and efficiently.

Part No. NPL304

DOMINATOR

High Strength Paint Varnish & Gasket Remover

Quickly Strips Away Paint And Varnish.

- Fast acting, heavy duty gasket, paint, oil, tar, and decal stripper.

Part No. NPL307

FOAMAWAY

Foaming Degreaser

A Powerful Deep Cleaning & Degreasing Agent.

- FOAMAWAY is a safe and effective industrial foam cleaner.
- Clinging foam cuts through tough grease and soil deposits.
- Special formulation of deep cleaning and powerful degreasing agents make clean-up of tools, parts, equipment and work areas fast and easy.
- Just spray and wipe clean.
- No special application techniques required.
- Safe on stainless steel, ferrous metals and rubber.

Part No. NPL310

SHARK

Coil & Fin Cleaner

Increases Unit Efficiency On AC & Refrigeration Coils.

- SHARK is a convenient and fast-acting coil and fin flushing agent.
- Cleans air conditioner and refrigeration coils in place, without removing to the shop.
- Regular use keeps equipment clean, efficient and in "peak" service.

Part No. NPL313

ZAP

Battery Cleaner & Protective Coating

A Complete Battery Maintenance System In One Aerosol Can.

- It cleans your battery and protects it from power reducing, corrosive deposits.
- Simply spray on terminals and outer casings to penetrate and emulsify dirt, grease and corrosion.
- Keeps battery terminals clean and corrosion free.
- Second application leaves a protective coating that seals out moisture and dirt.
- Prevents arcing and current leakage.

Part No. NPL316

MAGIC

Instant Carpet Spotter

Quickly Removes Stains From Carpets & Upholstery.

- Specially formulated with gentle cleaners which allow soiled areas to be treated while keeping them looking clean and attractive.

Part No. NPL319

C15

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NEW IMPROVED PROLINE FORMULA

VISION

Mirror Cleaner

The Ammonia Fortified Cleaner For Glass & Non-Porous Surfaces.

- A professional strength, non-streaking, ammonia fortified cleaner that makes glass sparkle.

Part No. NPL321

GLISTEN

Foam Protectant

Restores And Protects Vinyl, Rubber & Plastics.

- This product has been developed to instantly clean and shine.
- The self-cleaning, breaking foam requires no wiping-simply spray it on and walk away.

Part No. NPL324

KOOLZ

Foaming Coil & Fin Cleaner

Continuous Cleaning For Heating & Cooling System.

- KOOLZ is the fast, easy way to clean coils, filters and condensation pans. Cleans most air conditioner and refrigeration coils in place, without disassembly.
- Pleasant orange fragrance freshens entire room.
- Safe to use on most surfaces, except styrene.

Part No. NPL327

BLAST

High Pressure Air Duster

Safely Removes Dust & Particles From Sensitive Equipment.

- BLAST jet air duster instantly removes dust, dirt, lint, and other types of dry particles from delicate instruments and equipment with a powerful jet of dry gas.

Part No. NPL330

APPEAL

The Powerful Citrus Solvent That Dissolves Grease & Grime Fast

Fights Grease & Grime, Leaves A Pleasant Fragrance Behind.

- Made with natural citrus solvent, APPEAL is safe, yet POWERFUL! Contains no petroleum solvents.
- A safe alternative to chlorinated solvents and benzenes.
- Vapor safe - NO toxic fumes.
- Safe to use most anywhere.
- Non-acid, Non-caustic, Non-corrosive, Non-toxic, Non-carcinogenic.

Part No. NPL342

RITEOFF

Extreme Duty Graffiti Remover

Quickly Penetrates & Removes Graffiti.

- Fast acting, heavy duty gasket, paint, oil, tar, and decal stripper.

Part No. NPL345

RELEASE

Adhesive Remover

For Instant Removal Of Labels, Stickers & Decals.

- Thick gell clings to vertical porous and non-porous surfaces - will not run.

Part No. NPL351

DIAMOND

Ultra-Strong Glass Cleaner

Cuts Through Heavy Dirt To Make Your Windows Shine.

- DIAMOND is an ultra-strong, non-streaking, ammonia fortified cleaner with foaming action for cleaning glass and other hard surfaces.
- DIAMOND's cleaning foam clings where you spray to actually lift away dirt and grime.

Part No. NPL354

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NEW IMPROVED PROLINE FORMULA

BLITZ

Fast Drying Super Solvent

Blasts Away Grease And Oil Leaving No Residue Behind.

- **BLITZ is an excellent all-purpose solvent that is safe on all metals and most other surfaces.**
- **Won't harm insulation, paint, plastics, rubber and most other solvent sensitive materials.**

Part No. NPL357

ORANGE AID

The Fast Flushing High Strength 100% Natural Citrus Cleaner and Degreaser

The Fast Flushing Citrus Cleaner.

- **ORANGE AID is an all natural citrus multi-purpose cleaner/degreaser with a powerful degreasing formula that not only cleans grease, oil, and dirt from a variety of surfaces, but also deodorizes.**

Part No. NPL366

WIPEOUT

Gel Vandal Mark Remover

Wipes Away The Marks That Vandals Leave Behind.

- **Thick gel clings to vertical porous and non-porous surfaces - will not run.**

Part No. NPL363

SNOWAY

The Outerwear For Your Snowplow

The Non-Stick Outer Wear For Your Snowplow.

- **SNOWAY with its "triple thick", pure silicone formula creates a protective film that coats metal surfaces.**
- **TEFLON® fortified for long lasting protection.**
- **SNOWAY is a high viscosity gel that will not run, drip or sag on vertical surfaces.**

Part No. NPL503

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL103 • ONESHOT with Teflon® • Synthetic Penetrating Gel-Lube •

Products Specifications

Ingedients:
Heptane,Polyether Polyol, Liquefied Petroleum Gas

Appearance:
Clear Colorless Liquid
Odor:
Solvent odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F - >400°F
Vapor density:
Above 1.0
Evaporation Rate:
Residual Film will not evaporate
Specific Gravity:
(water=1)
Below 0.83 ∀ .05
Solubility in Water:
Negligible

FEATURES AND BENEFITS

- Penetrates
- Petroleum free
- E.P. rated
- Lubricates
- Bonds tenaciously
- Protects & preserves
- Colorless, stainless and dustless
- Withstands temperatures from -30° to 530° F
- Resists water

APPLICATIONS AND USES

- Dollies
- Cams
- Piano hinges
- Locks
- Conveyors
- Wheels
- Slides
- Open gears
- Chains
- Rollers
- Slide bearings
- Cables

DIRECTIONS FOR USE

Shake well before using. Saturate area to be lubricated. Allow to set-up as gel. Use extension tube for hard-to-reach areas.

Part No. NPL107 • NO SWEAT • Non-Flammable Moisture Displacer •

Products Specifications

Ingedients:
Perchloroethylene, Hydrotreated Light Naphthenic Distillate, Hydrotreated Heavy Naphthenic Distillate, Proprietary Rust Preventive, Coal Oil, Carbon Dioxide

Appearance:
Clear Amber
Odor:
Solvent odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
>250°F
Vapor density: Above 1.0
Evaporation Rate:
Medium evaporation. Residual film will not evaporate
Specific Gravity:
(Water=1)
Approximately 1.51 ∀ .05
Solubility in Water:
Insoluble

FEATURES AND BENEFITS

- Displaces Moisture
- Improve Electrical Properties
- Dielectric Strength: >45,000 volts/cm
- Non-Conductive

APPLICATIONS AND USES

- Circuit breakers
- Ignition systems
- Switches
- Terminals (battery & others)
- Meters
- High voltage applications
- Controls
- Coin operated machines
- Motors
- Windings
- Rectifiers
- Relays

DIRECTIONS FOR USE

Cover or protect any areas that might be harmed by moisture, dirt or debris flushed from treated surfaces. Start at highest spot; spraying downward. Saturate area to be treated, using the flushing action of the spray to assist in removal of moisture, oil, grease, dirt and debris. Allow surfaces to dry thoroughly before use. Use extension tube for hard-to-reach areas.

Part No. NPL111 • CUTRIGHT • Low Friction Cutting Foam •

Products Specifications

Ingedients:
Hydrotreated Petroleum Naphtha, Liquified Petroleum Gas, Chlorinated Paraffin, Lard Oil, Linseed Oil

Appearance:
Straw Colored Foamy Liquid
Odor:
Mild Petroleum Odor
pH:
N/A
Storage:
Below 120°F (49°C) But Above Freezing
Boiling Point:
> 400°F
Vapor density:
No data
Evaporation Rate:
Will not evaporate
Specific Gravity:
(Water=1)
Approximately .75 ∀ .05
Solubility in Water:
Nil

FEATURES AND BENEFITS

- Foaming action stays on cutting area - Foam runs up drills keeping them cool while continuing to feed cutting area. Eliminates dripping, messy oil and cleanup.
- Dramatically cuts heat created by drilling, reaming & tapping.
- Increases tool life up to10 times longer than ordinary oils.
- Reduces thermal expansion creating more accurate hole sizes.
- Not recommended for aluminum.

APPLICATIONS AND USES

Excellent when tapping, reaming, drilling, threading. Not for use on aluminum.

DIRECTIONS FOR USE

Shake well before using. Spray directly on area to be worked and cutting tool. Sprays best at room temperature, 70°F and above. Use extension nozzle to pinpoint spray and eliminate waste.

Part No. NPL115 • Gripper • Belt Conditioner •

Products Specifications

Ingedients:
Heptane, Acetone, Liquefied Petroleum Gas, Oxidized Herring Oil, Polymerized Rosin

Appearance:
Straw Colored Liquid
Odor:
Solvent-like
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >156°F
Vapor density:
Above 1.0
Evaporation Rate:
Fast evaporating
Specific Gravity:
(Water=1)
Approximately .68 ∀ .05
Solubility in Water:
Negligible

FEATURES AND BENEFITS

- Deep penetration to the innermost fibers. Renews and revitalizes all automotive and industrial V-belts.
- Prevents dry rot, reduces stretching and wear.
- Removes and prevents glazing and hardening.
- Leaves no gummy deposit to attract dirt and cause wear.

APPLICATIONS AND USES

Air compressors
Automotive Aelts
Dryers
Engines
Furnace blowers
Garden tractors
Powertools
Refrigerators
Fans
Water Pumps
Conveyors

DIRECTIONS FOR USE

Spray in well ventilated area. Area to be treated should be free of foreign matter. Spray product back and fourth across the inner working surface of belt from a distance of 10-12 inches. Occasional repeat applications will add life and increase efficiency.

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL119 • INVADER • Non-Flammable Rust Penetrant •

Products Specifications

Ingedients:
Perchloroethylene, Hydrotreated Light Naphthenic Distillate, Hydrotreated Heavy Naphthenic Distillate, Proprietary Rust Preventive, Coal Oil, Carbon Dioxide

Appearance: Clear Amber
Odor: Solvent Odor
pH: N/A
Storage: Below 120°F (49°C)
Boiling Point: >250°F
Vapor density: Above 1.0
Evaporation Rate: Medium evaporation. Residual film will not evaporate.
Specific Gravity: (Water=1) Approximately 1.51 " .05
Solubility in Water: Insoluble

FEATURES AND BENEFITS
- Non-flammable formula - safe for use on energized equipment.
- Lubricates all moving parts.
- Penetrates through rust and corrosion.
- Disperses moisture; dries wires and contacts.
- Prevents corrosion; seals out moisture.
- Cleans and degreases parts and assemblies.

APPLICATIONS AND USES
- Nuts & bolts
- Screws
- Cables
- Chains
- Wheels
- Casters
- Linkages
- Studs
- Tools
- Pillow Blocks
- Clamps
- Exhaust Parts
- Locks
- Padlocks
- Hinges
- Pulleys

DIRECTIONS FOR USE
Safe on most surfaces. Avoid plastics, solvent sensitive materials or painted surfaces. If in doubt, test on an inconspicuous area.

Part No. NPL123 • FORCE • Penetrating Chain and Cable Lubricant •

Products Specifications

Ingedients:
Lithium Complex Grease, Liquefied Petroleum Gas, Hexane, Acetone, Molybdenum Disulfide, Polyisobutylene

Appearance: Black
Odor: Petroleum/Solvent/ Oil Like Odor
pH: N/A
Storage: Below 120°F (49°C)
Boiling Point: <0°F — +400°F
Vapor density: Above 1.0
Evaporation Rate: Residual film will not evaporate
Specific Gravity: (Water=1) Approximately 0.76 ∀ .05
Solubility in Water: Negligible

FEATURES AND BENEFITS
- 50% more Moly (molybdenum disulfide) for superior lubrication.
- Specially formulated with New Hi-EP Grease.
- High degree of "tack" creates excellent adhesion as well as superior "film rupture" healing characteristics.
- Adheres to the gear, chain or cable without leaving the metal bare after each release.
- Highly water resistant. Prevents rust and oxidation.
- Test Results

Superior Corrosion - rust protection:
5% salt spray booth ASTM D-117
Passes 3000+ hours - no failure.

Superior lubrication - anti wear properties:
Falex load & wear test ASTM D-3233
Passes max. load of 4500 lbs. - no failure.
Torque reading 60.

DIRECTIONS FOR USE
Shake can well to disperse Moly. Spray point to be lubricated and repeat as needed.
For best performance can should be at room temperature (70°F) when used.

C15

Part No. NPL127 • CLING-ON • Extreme Pressure Open Gear Lubricant •

Products Specifications

Ingedients:
Petroleum, Paraffin Oil, Hexane, Isohexane, Isomers, Propane, Butane

Appearance: Black
Odor: Solvent
pH: N/A
Storage: Below 120°F (49°C)
Boiling Point: <0 TO 156°F
Vapor density: Heavier than air
Evaporation Rate: Slower than Ether
Specific Gravity: (Water=1) 0.76 ± .0.05
Solubility in Water: Nil

FEATURES AND BENEFITS
The tacky adhesiveness of this product continuously recoats and lubricates all gear surfaces. Extremely effective when used underwater. Forms a film that resists rust and corrosion. Increases life of all gears. Extreme pressure capacity minimizes squeeze-out

APPLICATIONS AND USES
- Open Or Exposed Chains, Wire, Rope Of Cables On Heavy Loads And Extreme Pressure
- Snow Removal Equipment
- Marine And Dockside Equipment
- Elevators
- Cranes
- Drag lines

DIRECTIONS FOR USE
Shake can well before using. Spray liberally in short bursts from 12 to 15 inches. Repeat as needed.

Part No. NPL131 • APOLLO • Extreme range Lubricant and Anit-Seize •

Products Specifications

Ingedients:
Heptane, Liquefied Petroleum Gas, Acetone, Copper, Graphite

Appearance: Copper Colored
Odor: Slight Petroleum Odor
pH: N/A
Storage: Below 120°F (49°C)
Boiling Point: Below 120°F (49°C)
Vapor density: Above 1.0
Evaporation Rate: Residual film will not evaporate
Specific Gravity: (Water=1) Approximately .78 ∀ .05
Solubility in Water: Negligible

FEATURES AND BENEFITS
- Highly refined blend of aluminum, copper and graphite.
- Contains no lead.
- Assures easy disassembly.
- Superior temperature range: -252°F to 2200°F.
- Water and steam proof, non-flammable.
- Excellent for long term corrosion protection.

APPLICATIONS AND USES
For easy removal of spark plugs, cylinder head bolts, exhaust hardware, disc brake calipers, and all machinery and equipment fasteners. Use to protect metal parts under extreme pressures up to 15,000 p.s.i. and sustained temperatures up to 2200°F.

DIRECTIONS FOR USE
1. Shake well before using.
2. Clean surface of all oil, grease, rust or other contaminates that might prevent a good seal.
3. Spray an even coat 6-12 inches from surface of parts to be assembled.

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL134 • MIDNIGHT RIDER • Dry Moly Lubricant •

Products Specifications

Ingedients:
2-Propanol, Acetone, Butane, Propane, Ethyl, 3-Ethoxypropionate, Mineral Spirits, Molybdenum Disulfide

Appearance:
Dry Black Film
Odor:
Solvent
pH: N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >395°F
<-18°F — >201°F

Vapor density:
Heavier than Air
Evaporation Rate:
Fast than Ether
Specific Gravity:
(Water=1)
0.73
Solubility in Water:
N/A

FEATURES AND BENEFITS

- Provides excellent lubrication properties without attraction of dust or dirt.
- Provides a smooth, frictionless surface for maximum operating efficiency.
- Reduces metal wear and fatigue to extend equipment life.
- Will not break down under high temperatures.

APPLICATIONS AND USES

Use on gears and chains, motors, bearings, boilers, engines, pump assemblies, conveyors, construction equipment, farm implement equipment.

DIRECTIONS FOR USE

Shake well before using. Spray 8-10 inches from surface. Spray a light even film. Wipe off excess with cloth. Repeat application, second coat gives additional protection.

Part No. NPL137 • SLIDER • Multi-Purpose Silicone Lubricant •

Products Specifications

Ingedients:
Hexane, Liquefied Petroleum Gas, Siloxanes and Silicones, di-Me

Appearance:
Clear Liquid
Odor:
Solvent-like
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >156°F

Vapor density:
Heavier than Air
Evaporation Rate:
Fast evaporating
Specific Gravity:
(Water=1)
Approximately .653 ∀ .05
Solubility in Water:
Negligible

FEATURES AND BENEFITS

- Stops friction, squeaks and sticking.
- Won't attract dust or dirt.
- Protects and renews rubber mountings, bushings, weatherstripping and seals.
- Wide effective temperature range (-40°F to 400°F).
- Excellent release agent and lubrication for all surfaces.

APPLICATIONS AND USES

Prolongs the life of cutting plates and needles. Lubricates conveyors, slides and work tables. Prevents binding of felt weatherstripping. Lubricates and eliminates squeaks on nylon bushings. Prevents sticking of door windows, doors, drawers, overhead garage doors, traverse rods and rubber weatherstripping. Lubricates and protects weatherstripping and grommets. Helps fight rust on all types of molds and dies and keeps materials from sticking to conveyor belts. Prevents papers and plastics from sticking to heat sealing equipment.

DIRECTIONS FOR USE

For best results use at room temperature. Shake can well before using. Surface should be free of grease, rust, dirt, wax or any other foreign material. Spray in well ventilated area. When used as a lubricant, apply a heavy coat.

Part No. NPL140 • DEVIL • Red Grease •

Products Specifications

Ingedients:
Hexane, Liquefied Petroleum Gas, Lithium Complex Grease, Polyisobutylene

Appearance:
Red Grease
Odor:
Petroleum/Solvent Odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >400°F

Vapor density:
Above 1.0
Evaporation Rate:
Residual film will not evaporate
Specific Gravity:
(Water=1)
.75 ∀ .05
Solubility in Water:
Negligible

FEATURES AND BENEFITS

- High temp., non-melt performance.
- Maximum shear resistance.
- Rust, corrosion & oxidation inhibitors.
- Not affected by acids, alkalines or salt.
- Operating temperature range -40°f to 500°F.

APPLICATIONS AND USES

Excellent for heavy-duty chassis lubrication, wheel bearings, ball joints, king pins, u-joints, chain couplings, steering knuckles, and virtually any application except extremely highspeed bearings or where white grease is required. Use on industrial bearings, electric motor shafts, truck and tractor fifth wheels, roller chains, agricultural hitches, heavy equipment bearing surfaces, cables, pulleys, automotive hinges and striker plates.

DIRECTIONS FOR USE

Shake well before using. For best results use at room temperature. Spray in well ventilated area. Use extension tube for hard to reach areas. After using, clear valve by inverting can and spraying for a few seconds.

Part No. NPL146 • THICK-N-STICKS • Professional Silicone Gel •

Products Specifications

Ingedients:
Hexane, Liquefied Petroleum Gas, Polydimethylsiloxane

Appearance:
Clear
Odor:
Petroleum/Solvent Odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >156°F

Vapor density:
Above 1.0
Evaporation Rate:
Not established
Specific Gravity:
(Water=1)
Approximately .56 ∀ .05
Solubility in Water:
Negligible

FEATURES AND BENEFITS

- Use on all metallic and non-metallic surfaces.
- Reduces friction and galling even on metal to metal contact areas.
- High temperature (-100° to 450° F.), high pressure (exceeds 1200 lb Falex test) lubricant.
- Clear, non-staining, odorless, moisture resistant.
- Gel-like formula stays where you spray it.
- Extreme pressure applications passes 1200 lb. psi Falex test.

APPLICATIONS AND USES

USE ON: In-plant conveyors, guides and rails, servo motors and mechanisms, mold release agent, vending machines, rolling and sliding mechanisms, bearings in high ambient temperature applications.

DIRECTIONS FOR USE

Shake well. Hold can 8 to 10 inches from point of application. Use extension tube at all times for all applications.

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL164 • EXTREME PRESSURE REX • Premium Complex All Purpose Red Grease •

Products Specifications

Ingedients:
Petroleum Oil Mixture

Appearance:
Red Gel
Odor:
Oil-like
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
N/A

Vapor density:
Heavier than Air
Evaporation Rate:
N/A
Specific Gravity:
(Water=1)
.08
Solubility in Water:
Negligible

Grease Type: Inorganic Polymer
Cold Test: -10°F
NLGI Grade: 1 & 2
Water Resistance: Excellent

Worked Penetration @ 77°F: 375/400
Tinken 65 lb. Rating
ASTM Drop Point: 550°F (Non-Melt)

FEATURES AND BENEFITS
- Performs under extreme impact pressure.
- Able to withstand heavy shock loads.
- Will not run or melt at high operating temperatures like ordinary greases.
- Special rust and corrosion inhibitors prolong the life of metal parts.
- Exceeds Chrysler, Ford and GM disc brake wheel bearing lubrication specifications.

APPLICATIONS AND USES
Automotive, trucks, buses, construction equipment, processing machinery, mills, marine and industrial applications.

Part No. NPL202 • ADHERE • Super Stick Adhesive •

Products Specifications

Ingedients:
Oxibismethane, Acetone, n-Hexane, Proprietary Resin, Methyl Ethyl Ketone

Appearance:
Clear Amber Liquid
Odor:
Solvent Odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >200°F

Vapor density:
Above 1.0
Evaporation Rate:
Fast evaporating
Specific Gravity:
(Water=1)
.73 ∀ .05
Solubility in Water:
Negligible

FEATURES AND BENEFITS
- Super sticky, high strength.
- Bonds to metal, cork, rubber, plastic and other automotive materials.
- Holds gasket in place — even overhead!
- Resists water, anti-freeze, gasoline, oil, transmission fluid, brake fluid and grease.
- Extension tube creates narrow spray — eliminates overspray and waste.

APPLICATIONS AND USES
Works extremely well on most surfaces, including foam, rubber, leather, paper, cloth, cardboard, mylar, foil, acetate sheets, glass and certain plastics. May react with urethanes. Test first.

DIRECTIONS FOR USE
Shake well before using. Always use extension nozzle. For soft materials, spray both surfaces, allow one minute to season before bonding. For hard materials - as above but allow longer seasoning before bonding. Temporary bonds: Apply a light, even spray to one surface only and allow tack to develop, then bond with firm pressure. After using, clear spray head and nozzle by turning can upside down and spraying a short jet of clear gas.

Part No. NPL205 • SHIELD • Heavy Duty Black Rubber Coating •

Products Specifications

Ingedients:
Calcium Carbonate, Asphalt, Toluene, Propane, Mineral Spirits, Butane

Appearance:
Black
Odor:
Solvent
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >395°F

Vapor density:
Heavier than Air
Evaporation Rate:
Slower than Ether
Specific Gravity:
(Water=1)
1.10 ± 0.05
Solubility in Water:
Nil

FEATURES AND BENEFITS
- An extremely durable rust and corrosion inhibitor.
- Resists chipping and will not crack or peel with age.
- Elastic, waterproof, deaden sound.
- Paintable.

APPLICATIONS AND USES
For use on trucks, farm and construction equipment, in collision shops, as a tree wound dressing, and gutter and flashing sealer. Seals electrical boxes and fittings. Seals concrete and asphalt driveway cracks.

DIRECTIONS FOR USE
Shake well, until agitator moves freely. Spray 8 to 10 inches from a clean, dry surface in a sweeping motion. Dries to the touch in 1 hour, completely dry in 24 hours. For best results and optimum protection apply 2 coats. Wait 1-2 hours between coats. Remove overspray within 5 minutes using either kerosene or mineral spirits.

Part No.'s NPL207 & 210 • SEALI-WIZ • Silicone Gasket Maker •

Products Specifications

Ingedients:
Polymer, Silicone, Methyl Triacetoxysilane,Ethyl Triacetoxysilane, (Iron Oxide-Red only)

Appearance:
Red, Black, Aluminum, Clear
Odor:
Mild
pH: N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >34°F

Vapor density:
Heavier than Air
Evaporation Rate:
Slower than Ether
Specific Gravity:
(Water=1)
1.32 ± 0.05
Solubility in Water:
Nil

FEATURES AND BENEFITS
100% RTV Silicone. Industrial strength. Caulks around tubs, sinks, showers. Temperature range from -60°F to 650°F. Insulates electrical components. Seals around windows, doors, walls. Binds most materials, similar or dissimilar (glass, wood, rubber, plastic, ceramics, etc.)

APPLICATIONS AND USES
SEALI-WIZ will adhere to clean metal, glass, most types of wood, silicone resin, vulcanized rubber, ceramic, natural and synthetic fiber as well as painted and plastic surfaces. Forms-in-place gaskets for oil and transmission pans, oil and water pumps, valve and timing chain covers, electric motors and electric control boxes, gear boxes, compressors, machine covers.

DIRECTIONS FOR USE
Surface must be clean, dry and free of oil, tar, dirt, and dust for best adhesion. Hold can at 45° angle and apply a continuous bead of 1/16" to 1/8" to the mating surface, encircling all bolt holes. For adhesion to both parts, assemble immediately. One part adhesion, allow 10 to 15 minutes for bead to skin. Assemble parts, but do not squeeze gasket out by over tightening bolts. Starts to cure immediately, fully cures in 24 hours and reaches optimum strength in 7 days. Leave a small bead of material which will form a sealing "plug" for reuse. To use, gently pull "plug" and begin to use material. If plug breaks leaving the dispensing tip sealed, use a paper clip or other wire object to remove and loosen the remainder of the cured material.

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL213 • SPIDEY • Super Bonding Trim Adhesive •

Products Specifications

Ingedients:
Propane, Hexane, Isohexane Isomers, Cyclohexane, Acetone, Amorphous Silica

Appearance:
Clear
Odor:
Solvent
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >156°F

Vapor density:
Heavier than Air
Evaporation Rate:
Slower than Ether
Specific Gravity:
(Water=1)
0.71 ± 0.1
Solubility in Water:
Nil

FEATURES AND BENEFITS

- Fast drying. Will not attack foam.
- Heat resistant.
- High strength formula.
- 3-way web spray nozzle (low, medium, high).
- Temperature rated to 200°F.

APPLICATIONS AND USES

For use on leather, cork, wood, vinyl, paper, metal, cardboard, plastic, film, rubber, glass, cloth, foil, and foam.

DIRECTIONS FOR USE

Use at room temperature. Spray from 6 - 8 inches. Shake well before using. Select spray pattern by rotating nozzle to desired position. Spray evenly on both surfaces. Allow to dry 1 to 3 minutes, but not more than 30 minutes. Align and press surfaces together. Invert can and spray to clean nozzle.

Part No. NPL304 • MASTER CLEAN • Non-Flammable Cleaner/Degreaser •

Products Specifications

Ingedients:
Perchloroethylene, Carbon Dioxide

Appearance:
Clear Colorless Liquid
Odor:
Lemon Odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
250°F

Vapor density:
Above 1.0
Evaporation Rate:
Not established
Specific Gravity:
(Water=1)
1.62 ∀ .05
Solubility in Water:
Nil

FEATURES AND BENEFITS

WORKS FAST: Cleans much faster than ordinary solvents. Dries instantly. No residue.
POWERFUL CLEANING ACTION: Cuts through grease, oil, grime, tar, asphalt, wax, and adhesives.
NON-CONDUCTIVE: High dielectric strength up to 40,000 volts (per ASTM D-87).
NON-FLAMMABLE: No flash point.
SAFE ON METALS AND MOST MATERIALS: Non-acid, non-caustic, non-corrosive. May be harmful to some plastics. Test on a small area before using. Will remove skin oils. Use of rubber gloves strongly recommended.

APPLICATIONS AND USES

CLEAN AND DEGREASE

Air tools	Machinery	Compressors	Mechanical brakes	Parts
Switch gear	Chains	Bearings	Presses	Wire rope
Motors	Park lights	Dies and molds	Generators	Gears

DIRECTIONS FOR USE

USE ONLY IN WELL VENTILATED AREA. Simple to use. Spray on and wipe off dirt and grease. Or spray on and let dirt and grease flush off.

Part No. NPL307 • DOMINATOR • Gasket & Paint Remover •

Products Specifications

Ingedients:
Methylene Chloride, 2-Propanol, Propane, Butane, Deionized Water, Ethanolamine, Mineral Spirit

Appearance:
White Gel
Odor:
Solvent
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F — >395°F

Vapor density:
Heavier than Air
Evaporation Rate:
Slower than Ether
Specific Gravity:
(Water=1)
0.99 ± 0.05
Solubility in Water:
Nil

FEATURES AND BENEFITS

- Not for use on painted surfaces.
- Removes paint and varnish.
- Thick gel clings to and penetrates porous surfaces.
- May be wiped off or rinsed with water.
- Pressure washing rinse is recommended for difficult or stubborn vandal marks.

APPLICATIONS AND USES

For use on porous surfaces such as cider block, sandstone, marble, brick, masonry, granite, concrete, terrazzo, slate. Removes paint, oil base, latex, enamel, lacquer, shellac, varnish, and most finishes.

DIRECTIONS FOR USE

Shake well before using. Spray 8 to 12 inches from surface. Allow several minutes to penetrate - for stubborn marks, use a stiff brush to agitate before wiping or rinsing. Repeat above if necessary.

Part No. NPL310 • FOAMAWAY • Foamimg Degreaser •

Products Specifications

Ingedients:
Water, Liquefied Petroleum Gas, Isopropyl Alcohol, Methyl Ethyl Ketone, Acetone, D'Limonene

Appearance:
Clear Colorless Liquid
Odor:
Citrus odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
>100°F

Vapor density:
Above 1.0
Evaporation Rate:
Approximate to water
Specific Gravity:
(water=1)
Approximately .91 ∀ .05
Solubility in Water:
Soluble
Water rinsing

FEATURES AND BENEFITS

- Contains D'Limonene - a safe, natural citrus based solvent.
- Emulsifies in water. Totally biodegradable
- Versatile, all-purpose cleaner. Dilute for normal use, or use straight, for extra strength.
- USDA accepted.

APPLICATIONS AND USES

- Dollies
- Air Filters
- Air Conditioners
- Chrome
- Conveyors
- Counter Tops
- Engines
- Exhaust Fans
- Flues
- Kitchen Areas
- Lavatories
- Machinery
- Motors (shell only)
- Pipes
- Plastics
- Presses
- Refrigerators
- Shower Rooms
- Steel Files

DIRECTIONS FOR USE

Shake well. Spray upright 4 to 6 inches from surface to be cleaned. Allow a few seconds to penetrate, then wipe off. For heavy grease (engines, etc.) allow to soak 10 to 15 minutes. Hose off with water.

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL313 • SHARK • Coil & Fin Cleaner •

Products Specifications

Ingedients:
Water, Ethylene Glycol Monobutyl Ether, Liquefied Petroleum Gas, Isopropyl Alcohol, D-Limonene, Ammonia

Appearance: Clear Colorless Liquid
Odor: Citrus odor
pH: N/A
Storage: Below 120°F (49°C)
Boiling Point: <0°F - >250°F
Vapor density: Above 1.0
Evaporation Rate: Slow to medium
Specific Gravity: (water=1) Approximately .92 ∀ .05
Solubility in Water: Soluble

FEATURES AND BENEFITS
Spray on, walk away, no rinse needed. Wait for a few minutes and watch the foam condense and wash away dirt, dust and grime. Non-corrosive, non-acid formula cleans both condenser and evaporator coils leaving pleasant odor to freshen entire room.

APPLICATIONS AND USES
- Air conditioners
- Refrigeration units
- Icemakers
- Cooling towers
- Heat pumps
- Heat exchange equipment
- Zoneline® heat pumps
- Condensation coolers

DIRECTIONS FOR USE
Shake well. Spray coils and fins in a sweeping motion, starting at the top of the coil, flushing dirt to the bottom. For heavy dirt accumulations, spray lightly first, allow solvents to penetrate. Then, flush off. Repeat until all build up is removed. Safe to use on most washable surfaces. If in doubt, pretest on a small area.

Part No. NPL316 • ZAP • Battery Cleaner & Protective Coating •

Products Specifications

Ingedients:
Liquefied Petroleum Gas, Hydrotreated Light Naphthenic Distillate, Hydrotreated Heavy Naphthenic Distillate, Heavy Paraffinic Distillate Solvent Extract, Lithium Complex Grease, Triethanolamine

Appearance: Red Grease Like Transparent
Odor: Solvent odor
pH: N/A
Storage: Below 120°F (49°C)
Boiling Point: <0°F - >400°F
Vapor density: Above 1.0
Evaporation Rate: Residual Film will not evaporate
Specific Gravity: (water=1) Approximately .76 ∀ .05
Solubility in Water: Negligible

FEATURES AND BENEFITS
- Eliminates corrosion.
- Penetrates, dissolves and neutralizes corrosion and acid build-up on all storage batteries.
- Leaves protective seal against future corrosion build-up.
- Increases electrical conductivity and prolongs battery life.

DIRECTIONS FOR USE
SHAKE WELL BEFORE USING. Spray on battery terminals and attachments. Wait 2 to 3 minutes for it to loosen and dissolve corrosion deposits, then wipe clean with dry cloth. Spray a second light coat on all cleaned areas to guard against future deposit buildup.

Part No. NPL319 • MAGIC • Instant Carpet Spotter •

Products Specifications

Ingedients:
Deionized Water, 2-Butoxyethanol, Anionic Surfactant, Isobutane, Chelating Agent

Appearance: White Foam
Odor: Mint odor
pH: 12.75 ± 0.5
Storage: Below 120°F (49°C)
Boiling Point: <0°F - >212°F
Vapor density: Heavier than air
Evaporation Rate: Slower than Ether
Specific Gravity: (water=1) 0.80 ± 0.05
Solubility in Water: Soluble

FEATURES AND BENEFITS
Thick foam lifts out and holds dirt and grime in suspension until vacuumed away. Use on spills right away, helps avoid hard-to remove stains later. Saves time and labor of cleaning spots.

APPLICATIONS AND USES
For use in hotels, corridors, walk-off entrance mats, automobile interiors, shops, all-natural or synthetic upholstery, velour rugs, and fabric.

DIRECTIONS FOR USE
Shake well before using. Vacuum carpet thoroughly. Invert and spray from 24 inches. With sweeping motion, cover area of about 4 square feet. With wet sponge mop or deck brush, work into carpet first across and then with nap. Repeat for all other areas. Let dry for at least 4 hours and then vacuum thoroughly. Wipe away overspray from walls and furniture before foam dries. Cover legs and casters to prevent rust spotting on carpet.

Part No. NPL321 • VISION • Mirror Cleaner •

Products Specifications

Ingedients:
Water, Isopropanol, Liquefied Petroleum Gas, Ammonium Hydroxide, Dipropylene Glycol Monobutyl Ether

Appearance: Clear Colorless Liquid
Odor: Pleasant Sweet Odor
pH: N/A
Storage: Below 120°F (49°C) But Above Freezing
Boiling Point: <0°F - >212°F
Vapor density: No data
Evaporation Rate: Approximate of water
Specific Gravity: (water=1) Approximately 1.0 ∀ .05
Solubility in Water: Soluble

FEATURES AND BENEFITS
- Cleans surfaces fast and easy through foaming action.
- Just spray it on and wipe it off immediately for sparkling clean surfaces every time.
- Leaves no sticky film to attract dirt and is non-staining.
- Contains ammonia for effective grease cutting.
- Cuts dirt and grime, removes smoke film.

APPLICATIONS AND USES
Use **VISION** to clean and protect windows, mirrors, showcases, TV screens, porcelain, formica, stainless steel, chrome, fixtuAres, chandeliers, and other hard non-porous surfaces. Cuts through dirt and grime. Leaves a clear protective coating that is smudge and finger print resistant. Resists dust. Surfaces stay clean longer.

DIRECTIONS FOR USE
Shake well before use. Hold can in an upright position while applying from a distance of 10-12 inches from surface. Direct spray toward the middle of the area to be cleaned. Allow several seconds for foam to penetrate filmed surface. Wipe with a clean paper towel or cloth.

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL324 • GLISTEN • Foam Protectant •

Products Specifications

Ingedients:
Deionized Water, Poly (dimethylsiloxane), Butane, Propane, Poly (oxyethylene) Decyl Ether

Appearance:
White Foam
Odor:
Mild
pH:
10.0 ± 0.5
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F - >213°F

Vapor density:
Heavier than air
Evaporation Rate:
Slower than Ether
Specific Gravity:
(water=1)
0.93 ± 0.1
Solubility in Water:
Emulsion

FEATURES AND BENEFITS
Self-cleaning foam cleans and shines all vinyl, rubber and synthetic surfaces. Product cures to a glossy protective shine in minutes, with no buffing. Leaves an extra long-lasting protective shine that repels dirt, asphalt, and grime. Product works best if original surface is cleaned first. Protects againstdiscoloration, oxidation and ozone deterioration. Buffing may help cleaning action.

APPLICATIONS AND USES
Cleans under-the hood rubber products, hoses, air intake ducts, tires, bumpers, and trim.

DIRECTIONS FOR USE
Shake well before using. Spray at 8 inch distance from surface. For more gloss, use 2 applications. For less, wipe once with clean cloth. Whitewalls may require light rubbing with cloth or brush then respray over whitewall.

Part No. NPL327 • KOOLZ • Foaming Coil and Fin Cleaner •

Products Specifications

Ingedients:
Water, Liquefied Petroleum Gas, Isopropyl Alcohol, Methyl Ethyl Ketone, Acetone

Appearance:
Clear Colorless Liquid
Odor:
Citrus odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
>100°F

Vapor density:
Above 1.0
Evaporation Rate:
Approximate to water
Specific Gravity:
(water=1)
Approximately .91 ∀ .05
Solubility in Water:
Soluble
Water rinsing

FEATURES AND BENEFITS
Continuously cleans and reduces heating and cooling costs with a pleasant odor.

APPLICATIONS AND USES
Use two ways on evaporator coils (coldside). To clean, spray on and rinse off. Or, for continuous cleaning effect, spray on coldside coils and do not rinse off. The residual coating on the coils will continuously clean as water condenses and runs off.

DIRECTIONS FOR USE
DIRECTIONS: Shake well. Always apply starting at the top and working down to the bottom. For quick, easy cleaning, spray on condenser coils (hot side), condensation pans and filters. Then rinse off.

Part No. NPL330 • BLAST • Jet Air Duster •

Products Specifications

Ingedients:
Tetrafluorethane

Appearance:
Air
Odor:
None
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F - >14°F

Vapor density:
Heavier than air
Evaporation Rate:
Faster than Ether
Specific Gravity:
(water=1)
1.21 ± 0.05
Solubility in Water:
NA

FEATURES AND BENEFITS
Removes dust from delicate equipment. Clean, pure air. Moisture free. Removes dust, dirt, lint, and other airborne particles from sensitive and delicate equipment.

APPLICATIONS AND USES
For use on delicate optical photographic lenses, scientific equipment, timing devices, film, typewriters, TV's computer printers and terminals, keyboards, computer disks, tuning devices, miniature assemblies, watches, radio and navigation equipment, audio/video cartridges, and cassettes.

DIRECTIONS FOR USE
Do not shake can during use. Always hold can upright - Do Not Exceed or Tilt more than 30°.
For maximum efficiency, always use this product with snorkel tube provided.

Part No. NPL342 • APPEAL • Citrus Solvent Degreaser •

Products Specifications

Ingedients:
Water, Liquefied Petroleum Gas, Isopropyl Alcohol, Methyl Ethyl Ketone, Acetone

Appearance:
Clear Colorless Liquid
Odor:
Citrus Odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
>100°F

Vapor density:
Above 1.0
Evaporation Rate:
Approximate to water
Specific Gravity:
(water=1)
Approximately .91 ∀ .05
Solubility in Water:
Soluble
Water rinsing

FEATURES AND BENEFITS
- Specially formulated to remove dirt, grease and oil from all mechanical engines, machinery, tools and even greasy floors.
- Simply spray on **APPEAL** penetrates through layers of dirt, grease and grime, down to the metal itself.
- Biodegradable formula emulsifies grease and oil.

APPLICATIONS AND USES
Dissolves and Removes:
- Grease and Oil
- Tar and Asphalt
- Inks
- Grimy Dirt
- Adhesives
- Graffiti
- Resins
- Food
- Soils
- Tire Marks
- Blood
- Crayon and Waxes
- Cosmetics and Shoe Polish

DIRECTIONS FOR USE
Shake well before using. Spray directly on and allow product to soak in. Wipe clean (or hose off).
Plastics should be immediately wiped clean. Avoid use on styrene.

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL345 • RITEOFF • Jelled Vandalism Remover Gasket & Paint Remover •

Products Specifications

Ingedients:
Methylene Chloride, 2-Propanol, Propane, Butane, Deionized Water, Ethanolamine, Mineral Spirits

Appearance:
White Gel
Odor:
Solvent odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F - >395°F

Vapor density:
Heavier than air
Evaporation Rate:
Slower than Ether
Specific Gravity:
(water=1)
0.99 ± 0.05
Solubility in Water:
Nil

FEATURES AND BENEFITS
Not for use on painted surfaces. Removes paint and varnish. Thick gel clings to and penetrates porous surfaces. May be wiped off or rinsed with water. Pressure washing rinse is recommended for difficult or stubborn vandal marks.

APPLICATIONS AND USES
For use on porous surfaces such as cinder block, sandstone, marble, brick, masonry, granite, concrete, terrazzo, slate. Removes paint, oil base, latex, enamel, lacquer, shellac, varnish, and most finishes.

DIRECTIONS FOR USE
Shake well before using. Spray 8 to 12 inches from surface. Allow several minutes to penetrate - for stubborn marks, use a stiff brush to agitate before wiping or rinsing. Repeat if necessary.

Part No. NPL351 • RELEASE • Adhesive Remover •

Products Specifications

Ingedients:
Toluene, Deionized Water, Propane, Diacetone Alcohol, Butane, 2-Propanol, Acetone

Appearance:
White Gel
Odor:
Solvent odor
pH:
10.25 ± 0.5
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F - >342°F

Vapor density:
Heavier than air
Evaporation Rate:
Slower than ether
Specific Gravity:
(water=1)
0.80 ± 0.5
Solubility in Water:
Emulsion

FEATURES AND BENEFITS
Emulsifiable - wipe off with cloth or rinse off with water.

APPLICATIONS AND USES
RELEASE adhesive remover instantly penetrates and dissolves adhesives to remove:
• Labels • Stickers • Decals • Old hardened adhesive residue

Safe On Most Surfaces Including:
• Glass • Metal • Wood • Plastics

Caution: RELEASE may soften some plastics and paints. Always pretest on an inconspicuous area to determine if it will harm the surface finish.

DIRECTIONS FOR USE
Apply **RELEASE** so that it completely covers and soaks into the label or sticker that is being removed. Allow several minutes while it soaks through label and softens adhesive layer, then peel off label. Any adhesive residue can be removed from the surface by spraying and wiping with a cloth.

Part No. NPL354 • DIAMOND • Glass Cleaner •

Products Specifications

Ingedients:
Water, Isopropanol, Liquefied Petroleum Gas, Ammonium Hydroxide, Dipropylene Glycol Monobutyl Ether

Appearance:
Clear Colorless Liquid
Odor:
Pleasant Sweet Odor
pH: N/A
Storage:
Below 120°F (49°C)
But Above Freezing
Boiling Point:
<0°F - >212°F

Vapor density:
No data
Evaporation Rate:
Approximate of water
Specific Gravity:
(water=1)
Approximately 1.0 ∀ .05
Solubility in Water:
Soluble

FEATURES AND BENEFITS
- Cleans surfaces fast and easy through foaming action.
- Just spray it on and wipe it off immediately for sparkling clean surfaces every time.
- Leaves no sticky film to attract dirt and is non-staining.
- Contains ammonia for effective grease cutting.
- Cuts dirt and grime, removes smoke film.

APPLICATIONS AND USES
Cleans windows, mirrors, tile, porcelain, chrome and bath fixtures. Removes stubborn residues such as road film, oil, road salt, grease, paint overspray and bugs. Excellent for automotive, fleet, industrial and institutional uses. Removes paint overspray. Does not contain silicone.

DIRECTIONS FOR USE
Shake well before use. Hold can in an upright position while applying from a distance of 10-12 inches from surface. Direct spray toward the middle of the area to be cleaned. Allow several seconds for foam to penetrate filmed surface. Wipe with a clean paper towel or cloth.

Part No. NPL357 • BLITZ • Fast Drying Super Solvent •

Products Specifications

Ingedients:
Heptane, Acetone, Isopropyl Alcohol, Toluene, Methyl Alcohol, Carbon Dioxide

Appearance:
Clear Colorless Liquid
Odor:
Solvent odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
>150°F

Vapor density:
Above 1.0
Evaporation Rate:
Fast evaporating
Specific Gravity:
(water=1)
Approximately .68 ∀ .05
Solubility in Water:
Negligible

FEATURES AND BENEFITS
BLITZ safely cleans, degreases and removes soil, oil, grease, and built-up grime fast. Also dries in seconds leaving no film or residue, so cleaned surfaces are ready for immediate painting or assembly.

APPLICATIONS AND USES
Air tools, mechanical brakes and clutches, chains and wire rope, motors, dies and molds, material handling equipment, switchgear, corroded machinery and parts, bearings, generators, and compressors. May be harmful to some plastics and paints. Test on small area before using.

DIRECTIONS FOR USE
Shake can well. Apply product liberally. Allow solvent to run off washing away the oil, grease and dirt. Repeat application for absolute cleaning.

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PRODUCT SPECIFICATIONS & APPLICATIONS

Part No. NPL363 • WIPEOUT • Vandal Mark Remover •

Products Specifications

Ingedients:
Toluene, Deionized Water, Propane, Diacetone Alcohol, Butane, 2-Propanol, Acetone

Appearance:
White Gel
Odor:
Solvent odor
pH:
10.25 ± 0.5
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F - >342°F

Vapor density:
Heavier than air
Evaporation Rate:
Slower than ether
Specific Gravity:
(water=1)
0.80 ± 0.5
Solubility in Water:
Emulsion

FEATURES AND BENEFITS
Emulsifiable - wipe off with cloth or rinse off with water. Removes pen inks, marker inks, printing inks, spray paints, adhesives, crayon, lipstick, tar, scuffs, etc.

APPLICATIONS AND USES
Suitable for use on brick, formica, steel, aluminum, glass, chrome, marble, porcelain, ceramics, etc. Effective on buildings, signs, bridges, buses, freight cars, restroom, and locker room facilities.

DIRECTIONS FOR USE
Shake well before using. Spray 8 to 12 inches from surface. Allow several minutes to penetrate - for stubborn marks, use a stiff brush to agitate before wiping or rinsing. Repeat above if necessary.

Part No. NPL366 • ORANGE AID • Fast Flushing Citrus Cleaner & Degreaser •

Products Specifications

Ingedients:
Water, Ethylene, Glycol Monobutyl Ether, Liquefied Petroleum Gas, Isopropyl Alcohol, D'Limonene, Ammonia

Appearance:
Clear Colorless Liquid
Odor:
Citrus Odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F – >250°F

Vapor density:
Above 1.0
Evaporation Rate:
Slow to medium
Specific Gravity:
(water=1)
Approximately
.92 ∀ .05
Solubility in Water:
Soluble

FEATURES AND BENEFITS
- Contains D'Limonene - a safe, natural citrus based solvent.
- Contains no acids, no caustics or corrosives. Non-carcinogenic.
- Emulsifies in water. Totally biodegradable.
- Versatile, all-purpose cleaner. Dilute for normal use, or use straight, for extra strength.
- USDA accepted.

APPLICATIONS AND USES
Engine degreaser, carpet and upholstery spot and stain remover, unclog drains and grease traps, clean grills, and ovens, removes decals, tar, asphalt, tire marks and printers ink.

DIRECTIONS FOR USE
Shake well before using. Spray directly on surface and allow product to soak in. Wipe clean (or hose off). Plastics should be immediately wiped clean. Avoid use on styrene.

Part No. NPL503 • SNOWAY • Triple Thick Silicone Gell •

Products Specifications

Ingedients:
Hexane, Liquefied Petroleum Gas, Polydimethylsiloxane

Appearance:
Clear
Odor:
Petroleum/Solvent odor
pH:
N/A
Storage:
Below 120°F (49°C)
Boiling Point:
<0°F - >156°F

Vapor density:
Above 1.0
Evaporation Rate:
Not established
Specific Gravity:
(water=1)
Below 0.56 ∀ .05
Solubility in Water:
Negligible

FEATURES AND BENEFITS
- Can be used on all metallic and non-metallic surfaces.
- Eliminates snow and ice build-up.
- Clear, non-staining, odorless, moisture resistant.

APPLICATIONS AND USES
USE ON: Snowplows, Snowblowers, Backhoes, Front End Loaders and Snow Shovels.

DIRECTIONS FOR USE
Shake well. Hold can 8 to 10 inches from point of application. For proper application and optimum performance, product should not be stored in temperatures under 60° F.

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J10 BODY CLIPS & SMALL PARTS

J10

SCREWS

WASHERS

BOLTS

BODY PANEL MOULDING CLIPS & FASTENERS

DOOR and INTERIOR TRIM RETAINERS & CLIPS

RIVETS

NUTS

THREAD REPAIR

WINDSHIELD and BACKGLASS REVEAL MOULDING CLIPS and FASTENERS

WINDOW PARTS

WEATHERSTRIP RETAINERS and CLIPS

RETAINER SPECIFICATION CHART

PART NUMBER	TYPE	COLOR	BOTTOM HEAD DIAMETER	TOP HEAD DIAMETER	STEM DIAMETER	STEM LENGTH	PAGE NUMBER
52616	9	White	3/4	11/16	5/16	1/2	J10-21
716301	10	Yellow	3/4 x 7/8	9/32 x 19/32	5/16	3/4	J10-37
716302	1	White	11/16		5/16	9/16	J10-17
716303	1	Black	3/8		9/32	1/2	J10-19
716304	1	Black	7/16		7/32	1/2	J10-16
716305	1	Gray	25mm		8mm	20mm	J10-17
716306	1	Black	25mm		8mm	20mm	J10-17
716307	1	Black		19mm	8mm Hole	18mm	J10-17
716308	8	White	3/4	19/32	9/32	3/4	J10-21
716309	1	Black	22mm		11mm	28mm	J10-18
716310	1	Black		14mm	6.35mm	8.7mm	J10-19
716311	5	Black		1/2"	1/4" Hole		J10-22
716312	1	Black	26mm		8mm	38mm	J10-18
716313	1	Black	3/4		7/32	11/16	J10-18
716314	2	Black	1-5/16		3/8	3/4	J10-22
716315	8	White	3/4	5/8	5/16	1	J10-21
716316	1	Black	7/16		3/16	5/8	J10-16
716317	8	White	15/16	29/32	5/16	1-1/8	J10-21
716318	9	Natural	19mm	13mm	M7 Hole	14.5mm	J10-20
716319	1	Black	11/16		5/16	5/8	J10-16
716320	1	Natural		19mm	M7 Hole	34mm	J10-18
716321	1	Black	1		9/32	1-1/16	J10-18
716322	1	Black	19/32		7/32	3/4	J10-18
716323	1	Black	7/8		7/16	13/16	J10-17
716325	2	Black		1.250"	6.35 Hole	0.75	J10-22
716326	Misc.	Black	38mm		7mm	9mm	J10-37
716327	4	Black		17.5mm	8mm Hole	18.5mm	J10-20
716328	3	White	6mm x 16mm		6mm	10mm	J10-12
716329	4	Black	13mm		5.5mm	11mm	J10-19
716330	5	N/A		14mm	M6 Hole	18mm	J10-19
716331	1	Black	20mm		5.5mm	9mm	J10-16
716333	1	Black	3/4		9/32	1/2	J10-16
716335	1	Black	1-1/4		5/16	1-3/16	J10-18
716336	9	White	3/4	21/32	5/16	3/4	J10-21
716337	6	White	3/4	1/2	5/16	5/8	J10-20
716338	9	White	23/32	23/32	5/16	5/8	J10-21
716339	1	Black	1/2		9/32	3/4	J10-19
716342	8	White	15/16	29/32	5/16	11/16	J10-21
716343	7	Black	18mm	13mm	8mm Hole	14mm	J10-20
716344	7	White	20mm	18mm	8mm	13mm	J10-21
716349	1	Black	1		5/16	13/16	J10-17
716350	1	Black	1		5/16	13/16	J10-17
716351	1	Black	3/4		5/16	1-3/8	J10-19
716352	1	Natural	19/32		5/16	2	*nic
716356	1	Black		22mm	M6 Hole	38.5mm	J10-19
716357	8	White	19mm	15mm	9mm	18mm	J10-21
716424	1	Black	10mm		6mm	12mm	J10-16
716672	1	Black	12mm		5mm	12mm	J10-16
716679	7	Blue	18mm	13mm	8mm Hole	15mm	J10-20
716680	7	White	16mm	12.5mm	8mm	11mm	J10-20
716681	8	White	17mm	15mm	10mm	14mm	J10-2921
717130	1	Black	11/16		5/16	13/16	J10-17
717131	Misc	Black	1/2 x 1-1/2		9/32	5/8	J10-21
717163	9	White	7/8	29/32	5/16	3/4	J10-21
717211	3	Natural	3/16 x 1/2		3/16	5/8	J10-13
717212	3	Black	3/16 x 1/2		3/16	7/16	J10-13
717214	7	White	3/4	1/2	11/32	9/16	J10-20
717319	2	Black	1-3/16		3/8	3/4	J10-22
717320	1	Black	2		5/16	3/4	J10-21
717610	4	Black	20mm		11mm	16mm	J10-20

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Type 1

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RETAINER SPECIFICATION CHART

PART NUMBER	TYPE	COLOR	BOTTOM HEAD DIAMETER	TOP HEAD DIAMETER	STEM DIAMETER	STEM LENGTH	PAGE NUMBER
717620	4	Black	13mm		7mm	15mm	J10-13
718100	1	Black	1/2		9/32	11/16	*nic
718226	1	Black	25mm		7.5mm	20mm	J10-17
718227	3	Black		22mm	M6 Hole	38.5mm	J10-22
718230	8	White	15/16	29/32	5/16	11/16	J10-21
718400	9	Black	19mm	12.7mm	8mm Hole	16mm	J10-21
718415	7	White	3/4	33/64	5/16	13/16	J10-20
718422	6	Black	25/32	1/2	5/16	5/8	J10-20
718430	8	White	15/16	29/32	5/16	15/16	J10-21
718615	1	Black	1-21/32		5/16	3/4	J10-21
718616	1	Black	1-3/8		5/16	15/16	J10-21
718618	1	Black	1		7/16	13/16	J10-17
718627	1	Black	1		9/32	1-7/16	J10-19
718654	1	Black	25/32		5/16	15/16	J10-18
718656	1	Black		15.8mm	3/16" Hole	13.5mm	J10-19
718657	11	White	3/4 x 7/8	9/32 x 19/32	5/16	3/4	J10-37
720371	1	Black	3/4		5/16	1-1/16	J10-18
720372	1	Black			6mm Hole		J10-16
720373	1	Black			7/64"(2.5mm)		J10-16
720374	1	Black			5/16"(7.8mm)		J10-16
720375	1	Black	3/8		7/32	5/8	J10-16
720376	1	Black			5/32"(4mm)		J10-16
720377	1	Black	3/4		11/32	7/8	J10-17
720378	1	Black			13/64"(5.3mm)		J10-18
720379	1	Black	7/16		7/32	5/16	J10-16
720380	1	Black	5/8		3/8	3/4	J10-17
720381	1	Black			7/32"(5.5mm)		J10-18
720382	1	Black	3/8		7/32	3/8	J10-13
720383	1	Black	1		1/4	25/32	J10-18
720384	1	Black	1		19/64	1-1/16	J10-18
720499	3	Natural	9/32 x 1/2		7/32	21/32	J10-12
720508	1	Black	16mm		5mm	13mm	J10-17
720536	3	Black	8mm x 18mm		7mm	15mm	J10-13
720537	3	Blue	5mm x 15mm		6mm Hole	8mm	J10-13
720539	4	Black	13mm		6mm	10mm	J10-22
720546	7	White	18mm	13mm	8mm Hole	14mm	J10-20
720580	3	Natural	5mm x 15mm		5mm Hole	9mm	J10-13
720632	Misc.	Black	25mm		7mm Hole	10mm	J10-22
720733	7	Green	23/32	19/32	5/8	1/4	J10-22
720741	7	N/A			9.5mm Hole	14mm	J10-22
720762	4	Black	12mm		6mm	9mm	J10-22
720776	7	Yellow	18mm	13mm	9mm	17mm	J10-19
720807	7	Maroon	18mm	13mm	9mm	14mm	J10-19
720907	2	Black	30mm		6.3mm	12mm	J10-22
720922	1	Black	7/16		7/32	11/16	J10-17
720923	1	Black	3/4		11/32	13/16	J10-18
720924	1	Gray	11/16		5/16	13/16	J10-17
720925	1	Black	23/32		15/64 x 9/32	3/4	J10-17
720927	1	Black	5/8		1/4	3/4	J10-17
720933	Misc.	White	22mm	16mm	9mm	15mm	J10-22
720934	3	Natural	5mm x 15mm		5mm	8mm	J10-12
720961	Misc.	White	18mm	13mm	8mm	18mm	J10-26
720963	1	Black	13/32		5/16	1-5/16	J10-19
720965	3	White	5mm x 15mm		6mm Hole	10mm	J10-12
720966	7	White	17mm	13mm	8mm Hole		J10-20
720967	3	White	16mm x 6mm		5mm Hole	15mm	J10-19
721007	1	Black	3/4		7/32	11/16	J10-17
721016	4	Black	11mm		6mm Hole	8mm	J10-22
721036	7	White	18mm		15mm	7mm Hole	J10-20
723104	1	Black	16mm		8mm	16mm	J10-16

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RETAINER SPECIFICATION CHART

Recommended Hole Size: .030-.060 smaller than stem diameter

PART NUMBER	TYPE	COLOR	BOTTOM HEAD DIAMETER	TOP HEAD DIAMETER	STEM DIAMETER	STEM LENGTH	PAGE NUMBER
723196	1	N/A		24mm	9mm Hole	19mm	J10-17
723205	7	White	15mm	13mm	9mm	9.5mm	J10-22
723285	1	N/A		21mm	6.3 Hole	25mm	J10-18
723338	1	N/A		25.4mm	6.35 Hole	23.4mm	J10-18
723346	1	Blue	1		5/16	1-1/2	J10-19
724005	7	Yellow	10mm	15mm		15mm	J10-20
724019	7	White	16mm	13mm	9mm Hole	15mm	J10-20
724028	1	Black	15mm		4.5mm	14mm	J10-16
724053	7	Turquoise	18mm	13mm	18mm	14mm	J10-20
724111	1	N/A		13mm	M7 Hole	18mm	J10-20
724134	1	N/A		19mm	6.35 Hole	16mm	J10-18
724153	11	White	25/32"	11/16"	5/16"	13/16"	J10-20
724188	1	N/A		18mm	M7 Hole	29.5mm	J10-21

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

QUICK REFERENCE SUB-INDEX J10 BODY CLIPS AND SMALL PARTS

ASSORTMENTS

PRODUCTS **PAGES**

DOOR/INTERIOR TRIM

SCREW TYPE and PUSH PIN RIVETS J10-2
SCREW TYPE RIVET RETAINERS J10-2
PUSH PIN RIVET RETAINERS J10-2
POPULAR BODY and GENERAL PURPOSE CLIPS . .J10-2, 9
INTERIOR TRIM RETAINING CLIPS J10-2
GM INTERIOR TRIM PANEL RETAINING CLIPS J10-3
DOOR HANDLE LINKAGE CLIPS J10-3
PLASTIC SHIELD RETAINERS J10-3
POPULAR BODY PANEL & INTERIOR CLIPS J10-3

BODY PANEL MOULDING CLIPS and RETAINERS

SNAP-IN SHEET METAL PLUGS J10-4
RUBBER GROMMETS J10-4
ERGO-TUFLOKS DRIVE-TYPE RETAINERS J10-4

FASTENERS and HARDWARE

BODY FASTENERS
BODY BOLT - FRACTIONAL & METRIC J10-6
BODY NUTS and GROMMETS - IMPORT J10-4
METRIC J10-5
PAL NUTS J10-5
PUSH NUTS J10-5
RIVETS
AUTOMOTIVE BODY J10-6
SHEET METAL SCREWS
SLOTTED HEX WASHER HEAD J10-8
SPEED NUTS
EXTRUDED “U” J10-6
FLAT TYPE J10-7
“U” & “J” J10-7
TAPPING SCREWS
PHILLIPS WASHER HEAD J10-8
THREAD INSERTS
RIVET-NUTS and TOOLS J10-8
STEEL CLINCH-NUTS with TOOL J10-8
WASHERS
FINISHING J10-8
OVERSIZE (Fender) J10-8, 9
WELL NUTS J10-9

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

PART NO. 501453

Screw Type and Push Pin Rivets
115 pieces • 28 items • 12062 steel tray

717612	Rivet Retainer, M5 Hole	718721	Rivet Retainer, M8 Hole
718423	Rivet Retainer, M6 Hole	718725	Rivet Retainer, M10 Hole
718427	Rivet Retainer, M6 Hole	718728	Rivet Retainer, M6 Hole
718429	Rivet Retainer, M6 Hole	718729	Rivet Retainer, M6 Hole
718644	Rivet Retainer, M9.5 Hole	718730	Rivet Retainer, M6 Hole
718645	Rivet Retainer, M9.5 Hole	718733	Rivet Retainer, M6.3 Hole
718646	Rivet Retainer, M9.5 Hole	718734	Rivet Retainer, M6.3 Hole
718647	Rivet Retainer, M5 Hole	718737	Rivet Retainer, M7 Hole
718662	Rivet Retainer, M9.5 Hole	718738	Rivet Retainer, M8 Hole
718672	Rivet Retainer, M8 Hole	718739	Rivet Retainer, M8 Hole
718679	Rivet Retainer, M6 Hole	718740	Rivet Retainer, M8 Hole
718716	Rivet Retainer, M6.3 Hole	718742	Rivet Retainer, M8 Hole
718717	Rivet Retainer, M6.3 Hole	718744	Rivet Retainer, M9.5 Hole
718718	Rivet Retainer, M6 Square Hole	720669	Screw Rivet, M6.3 Hole

PART NO. 718701

Screw Type Rivet Retainers
68 pieces • 16 items • 12045 plastic tray

718429	Rivet Retainer, M6 Hole	718725	Rivet Retainer, M10 Hole
718672	Rivet Retainer, M8 Hole	718726	Rivet Retainer, M10 Hole
718710	Rivet Retainer, M6 Hole		
718711	Rivet Retainer, M6 Hole		
718712	Rivet Retainer, M6 Hole		
718713	Rivet Retainer, M8 Hole		
718715	Rivet Retainer, M6 Hole		
718716	Rivet Retainer, M6.3 Hole		
718717	Rivet Retainer, M6.3 Hole		
718718	Rivet Retainer, M6 Square Hole		
718720	Rivet Retainer, M7 Hole		
718721	Rivet Retainer, M8 Hole		
718722	Rivet Retainer, M8 Hole		
718723	Rivet Retainer, M8 Hole		

PART NO. 718702

Push Pin Rivet Retainers
101 pieces • 21 items • 12045 plastic tray

717612	Rivet Retainer, M5 Hole	718737	Rivet Retainer, M7 Hole
718423	Rivet Retainer, M6 Hole	718738	Rivet Retainer, M8 Hole
718427	Rivet Retainer, M6 Hole	718739	Rivet Retainer, M8 Hole
718644	Rivet Retainer, M9.5 Hole	718740	Rivet Retainer, M8 Hole
718645	Rivet Retainer, M9.5 Hole	718742	Rivet Retainer, M8 Hole
718646	Rivet Retainer, M9.5 Hole	718743	Rivet Retainer, M8 Hole
718662	Rivet Retainer, M9.5 Hole	718744	Rivet Retainer, M9.5 Hole
718679	Rivet Retainer, M6 Hole		
718727	Rivet Retainer, M5 Square Hole		
718728	Rivet Retainer, M6 Hole		
718729	Rivet Retainer, M6 Hole		
718730	Rivet Retainer, M6 Hole		
718733	Rivet Retainer, M6.3 Hole		
718734	Rivet Retainer, M6.3 Hole		

PART NO. 720115

Popular Body & General Purpose Clips - For Japanese Car s
144 pieces • 12 items • 12030 plastic tray

716328	Retaining Clip, 5mm Hole	720765	Weatherstrip Retainer, M6 Hole, 5 x 15mm Hd., 10mm Stem Lgth.
716330	Trim Clip, 6mm Hole		
716680	Door Panel Retainer, 8mm Hole, 11mm Stem Lgth., 20mm O/L		
716850	Screw Grommet, M3 Screw		
716857	Screw Grommet, M4 Screw		
717610	Trim Panel Clip, 20mm Head Dia.		
717615	Anchor Nuts, M3 Screw		
717616	Trim Panel Clip		
718771	Upholstery Clip, Black		
718772	Plastic Nut Anchor Clip, 7mm Sq. Hole, 11.5mm Hd. Dia., 9.5mm Stem Dia.		
720626	Splash Shield Clip, Front & Rear Fender		

PART NO. 501378

Interior Trim Retaining Clips
171 pieces • 30 items • 12062 steel tray

716305	Trim Clip, Gray Interior	716330	Trim Clip, 6mm Hole	720546	Trim Panel Retainer, 8mm Hole
716306	Trim Clip, Black Interior	716335	Retaining Clip, Dashboard	720733	Door Trim Panel Clip, M7 Hole
716308	Trim Clip, Door Panel	716339	Trim Clip, Panel	720925	Trim Panel Retainer, 23/32 Head
716311	Trim Clip, 1/4 Hole	716343	Trim Clip, 13mm Top Hd. Dia.	721036	Door Panel Retainer, 7mm Hole
716312	Trim Clip, M7 Hole	716344	Panel Retainer, M18 Sm. Head Dia.		
716313	Trim Clip, Panel	716356	Trim Clip, Panel		
716315	Trim Clip, Panel	716357	Trim Clip, Panel		
716316	Filler Clips, Dash Panel	717608	Trim Panel Clip		
716317	Trim Clip, 1/4 Stud	717610	Trim Panel Clip, 20mm Head Dia.		
716319	Trim Clip	717616	Trim Panel Clip		
716320	Trim Panel Clip, M7 Hole	718422	Door Trim Panel Clip		
716321	Interior Clip, 1/4 x 1.22”	718654	Panel Clip		
716327	Trim Clip, Interior				
716329	Trim Clip, 5mm Hole				

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

PART NO. 501380 — GM Interior Trim Panel Retaining Clips

176 pieces • 17 items • 12071 steel tray

52616	Door Trim Pael Clip	717214	Panel Clip, Door Trim
716301	Door Panel Clip, Side/Rear	718654	Panel Clip
716315	Trim Clip, Panel	718657	Panel Clip
716316	Filler Clip, Dash Panel		
716317	Trim Clip, 1/4 Stud		
716319	Trim Clip		
716320	Trim Panel Clip, M7 Hole		
716336	Clips, Door Panel		
716338	Trim Clip, Door Panel		
716339	Trim Clip, Panel		
716343	Trim Clip, 13mm Top Hd. Dia.		
716356	Trim Clip, Panel		
717163	Panel Clip, Door Trim		
717212	Moulding Clip, Door Opening		

PART NO. 717701 — Door Handle Linkage Clips

104 pieces • 20 items • 12045 plastic tray

716643	Door Linkage Clip, 3/16 Rod Dia.	717718	Door Handle Linkage Clip
716644	Door Linkage Clip, 5/32 Rod	717719	Door Handle Linkage Clip
716647	Door Linkage Clip, 5/32 Rod Dia.	720731	Door Lock Rod Clip, M6 Hole, 4mm Rod, RH
716648	Door Linkage Clip, 5/32 Rod Dia.	720732	Door Lock Rod Clip, M6 Hole, 4mm Rod, LH
716649	Door Linkage Clip, 4mm Rod Dia., 6mm Hole, LH	721049	Door Lock Clip
717183	Hood Rod Clip, 7/32 Dia.	721051	Door Lock Rod Clip
717707	Door Handle Linkage Clip, 5/32 Rod		
717708	Door Handle Linkage Clip, 5/32 Rod		
717709	Door Handle Linkage Clip, LH		
717710	Door Handle Linkage Clip, RH		
717713	Door Handle Linkage Clip, .186 Rod Dia.		
717714	Door Handle Linkage Clip, .156 Rod Dia.		
717715	Door Handle Linkage Clip, .156 Rod Dia.		
717716	Door Handle Linkage Clip, 3/8 Rod Dia.		

PART NO. 720400 — Plastic Shield Retainers

325 pieces • 24 items • 12045 plastic tray

716309	Retaining Clip, M10 x 28mm	720376	Shield Retainer, 5/32 (4mm)
716312	Trim Clip, M7 Hole	720377	Trim Panel Retainer, 5/16 (7.8mm)
716316	Filler Clip, Dash Panel	720378	Shield Retainer, 13/64 (5.3mm)
716319	Trim Clip	720379	Shield Retainer, 3/16 (4.5mm)
716351	Retainer, Rear Hood Seal	720380	Trim Panel Retainer, 23/64 (9mm)
716424	Weatherstrip Clip, 10mm Head, M5 Hole	720381	Shield Retainer, 7/32 (5.5mm)
717130	Shield Retainer, 1/4 (6.3mm) Hole	720382	Weatherstrip Retainer, 3/16 (4.5mm)
718226	Panel Retainer, 6.4mm Hole	720383	Shield Retainer, 7/32 (5.5mm)
718618	Retainer, 9.5mm Hole	720384	Shield Retainer, 1/4 (6.4mm)
720371	Shield Retainer, 5/16 (7.8mm)	720924	Trim Panel Retainer, 11/16 Hd., 5/16 x 13/16 Stem
720372	Shield Retainer, 15/64 (6mm)		
720373	Shield Retainer, 7/64 (2.5mm)		
720374	Shield Retainer, 5/16 (7.8mm)		
720375	Weatherstrip Retainer, 3/16 (4.5mm)		

PART NO. 720401 — Plastic Shield Retainers

500 pieces • 24 items • 12017 steel tray

716309	Retaining Clip, M10 x 28mm	720376	Shield Retainer, 5/32 (4mm)
716312	Trim Clip, M7 Hole	720377	Trim Panel Retainer,, 5/16 (7.8mm)
716316	Filler Clip, Dash Panel	720378	Shield Retainer, 13/64 (5.3mm)
716319	Trim Clip	720379	Shield Retainer, 3/16 (4.5mm)
716351	Retainer, Rear Hood Seal	720380	Trim Panel Retainer, 23/64 (9mm)
716424	Weatherstrip Clips, 10mm Head, M5 Hole	720381	Shield Retainer, 7/32 (5.5mm)
717130	Shield Retainer, 1/4 (6.3mm) Hole	720382	Weatherstrip Retainer, 3/16 (4.5mm)
718226	Panel Retainer, 6.4mm Hole	720383	Shield Retainer, 7/32 (5.5mm)
718618	Retainer, 9.5mm Hole	720384	Shield Retainer, 1/4 (6.4mm)
720371	Shield Retainer, 5/16 (7.8mm)	720924	Trim Panel Retainer, 11/16 Hd., 5/16 x 13/16 Stem
720372	Shield Retainer, 15/64 (6mm)		
720373	Shield Retainer, 7/64 (2.5mm)		
720374	Shield Retainer, 5/16 (7.8mm)		
720375	Weatherstrip Retainer, 3/16 (4.5mm)		

PART NO. 501688 — Popular Body Panel & Interior Clips

345 pieces • 22 items • 12017 steel tray

716309	Retaining Clip, M10 x 28mm	718723	Rivet Retainer, M8 Hole
716319	Trim Clip	718728	Rivet Retainer, M6 Hole
716323	Retaining Clip, Stone Shield	718730	Rivet Retainer, M6 Hole
717130	Shield Retainer, 1/4 (6.3mm) Hole	718739	Rivet Retainer, M8 Hole
717163	Panel Clip Door Trim	720371	Shield Retainer, 5/16 (7.8mm)
718615	Retaining Clip	720377	Trim Panel Retainer, 5/16 (7.8mm)
718616	Retaining Clip	720380	Trim Panel Retainer, 23/64 (9mm)
718618	Retainer, 9.5mm Hole	720381	Shield Retainer, 7/32 (5.5mm)
718644	Rivet Retainer, M9.5 Hole		
718662	Rivet Retainer, M9.5 Hole		
718679	Rivet Retainer, M6 Hole		
718716	Rivet Retainer, M6.3 Hole		
718721	Rivet Retainer, M8 Hole		
718722	Rivet Retainer, M8 Hole		

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

PART NO. 717022

Snap-In Sheet Metal Plugs
90 pieces • 5 items • 12038 plastic tray

717241	Snap-In Plug, 3/8 Hole
717242	Snap-In Plug, 1/2 Hole
717243	Snap-In Plug, 3/4 Hole
717244	Snap-In Plug, 7/8 Hole
717245	Snap-In Plug, 1” Hole

PART NO. 717002

Rubber Grommets
76 pieces • 6 items • 12028 plastic tray

717110	Rubber Grommet, 3/16 Inside Dia.
717111	Rubber Grommet, 1/4 Inside Dia.
717112	Rubber Grommet, 5/16 Inside Dia.
717113	Rubber Grommet, 3/8 Inside Dia.
717114	Rubber Grommet, 1/2 Inside Dia.
717115	Rubber Grommet, 5/8 Inside Dia.

PART NO. 724300

Ergo-Tufloks Drive-Type Retainers
134 pieces • 11 items • 12061 steel tray

724109	Ergo-Tuflok Drive Rivet, M8.25-M8.53 Hole
724138	Ergo-Tuflok Drive Rivet, M6.25-M6.53 Hole
724139	Ergo-Tuflok Drive Rivet, M8.25-M8.53 Hole
724140	Ergo-Tuflok Drive Rivet, M9.25-M9.53 Hole
724205	Ergo-Tuflok Drive Rivet, M6.25-M6.53 Hole
724206	Ergo-Tuflok Drive Rives, M6.25-M6.53 Hole
724207	Ergo-Tuflok Drive Rivet, M7.75-M8.25 Hole
724208	Ergo-Tuflok Drive Rivet, M8.25-M8.53 Hole
724209	Ergo-Tuflok Drive Rivet, M8.25-M8.53 Hole
724210	Ergo-Tuflok Drive Rivet, M10.25-M10.53 Hole
724211	Ergo-Tuflok Drive Rivet, M10.25-M10.53 Hole

PART NO. 724301

Ergo-Tufloks Drive-Type Retainers
67 pieces • 11 items • 12043 plastic tray

724109	Ergo-Tuklok Drive Rivet, M8.25-M8.53 Hole
724138	Ergo-Tuklok Drive Rivet, M6.25-M6.53 Hole
724139	Ergo-Tuklok Drive Rivet, M8.25-M8.53 Hole
724140	Ergo-Tuklok Drive Rivet, M9.25-M9.53 Hole
724205	Ergo-Tuklok Drive Rivet, M6.25-M6.53 Hole
724206	Ergo-Tuklok Drive Rivet, M6.25-M6.53 Hole
724207	Ergo-Tuklok Drive Rivet, M7.75-M8.25 Hole
724208	Ergo-Tuklok Drive Rivet, M8.25-M8.53 Hole
724209	Ergo-Tuklok Drive Rivet, M8.25-M8.53 Hole
724210	Ergo-Tuklok Drive Rivet, M10.25-M10.53 Hole
724211	Ergo-Tuklok Drive Rivet, M10.25-M10.53 Hole

PART NO. 501431

Nuts and Grommets, Import Applications
140 pieces • 24 items • 12017 steel tray

716788	Grommet, M5 Screw, 17mm Hd. Dia., 9mm Sq. Hole	716856	Screw Grommet, M5 Screw
716791	Grommet, M4.2 Screw, 6 x 10 mm Hole	716857	Screw Grommet, M4 Screw
716792	Grommet, M5 Screw	716858	Screw Grommet, M3 Screw
716793	Grommet, M5 Screw, 8 x 9mm Hole	716864	Screw Grommet, M5 Screw, 8.5mm Sq. Hole
716794	Grommet, M5 Screw	716870	Screw Nut, M4 Screw
716798	Grommet, M6 Screw	717611	Retaining Clip, M4 Screw
716836	Headlamp Adj. Nut, M5 Screw, 14mm W, 14mm L	720938	Cowl Screw Grommet, 4.8mm (#10) Screw
716839	Screw Grommet, M4 Screw	720982	Bumper Grommet, #10 Screw
716844	Screw Grommet, M5 or #10 Screw	720986	Screw Grommet, 8 x 8mm Hole, #12 Screw
716846	Screw Grommet, M6.3-1.81 Screw, 8mm Hole	720989	Screw Grommet, 18 x 20mm Head, #12 Screw
716848	Screw Grommet, M4 Screw		
716850	Screw Grommet, M3 Screw		
716852	Screw Grommet, M3 Screw		
716855	Screw Grommet, M3 Screw		

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

PART NO. 717024 — Metric Body Fasteners

70 pieces • 15 items • 12040 plastic tray

-717259	Metric Body Bolt, 6 x 25mm	717274	Metric Extruded Nut, M10-1.50 Screw
717260	Hex Flange Nut, M6-1.00		
717261	Metric Extruded Nut, 6mm		
717262	Metric Extruded Nut, M6-1.0 Screw		
717263	Metric Body Bolt, 6.3-1.0 x 20mm		
717264	Metric Body Bolt, M6.3-1.0 x 40mm		
717265	Flange Nut, 6.3mm-1.0		
717266	Metric Extruded Nut, M6.3-1.0		
717268	Metric Body Bolt, 8-1.25 x 20mm		
717269	Metric Body Bolt, M8-1.25 x 25mm		
717270	Hex Flange Nut, M8-1.25		
717271	Metric Extruded Nut, 8mm-1.25 Screw		
717272	Metric Body Bolt, M10-1.5 x 40mm		
717273	Hex Flange Lock Nut, M10-1.50		

PART NO. 503001 — Push Nut Fasteners

250 pieces • 7 items • 12035 plastic tray

503101	Push Nut, 1/8 Stud Size
503102	Push Nut, 5/32 Stud Size
503103	Push Nut, 3/16 Stud Size
503104	Push Nut, 1/4 Stud Size
503105	Push Nut, 5/16 Stud Size
503106	Push Nut, 3/8 Stud Size
503107	Push Nut, 1/2 Stud Size

PART NO. 503006 — Push Nut Retainers

200 pieces • 5 items • 12034 plastic tray

503160	Bolt Retainer, 1/4 Thread Size
503161	Bolt Retainer, 5/16 Thread Size
503162	Bolt Retainer, 3/8 Thread Size
503163	Bolt Retainer, 7/16 Thread Size
503164	Bolt Retainer, 1/2 Thread Size

PART NO. 51607 — Pal Nuts

350 pieces • 10 items • 12030 plastic tray

516281	Pal Nut, 8-32 Thread Size
516282	Pal Nut, 3/16 Thread Size
516283	Pal Nut, 3/16 Thread Size
516284	Pal Nut, 1/4-20 Thread Size
516285	Pal Nut, 1/8 Stud Size
516286	Pal Nut, 1/8 Stud Size
516287	Pal Nut, 1/8 Stud Size
516288	Pal Nut, 3/16 Stud Size
516289	Pal Nut, 3/16 Stud Size
516290	Pal Nut, 1/4 Stud Size

PART NO. 501030 — Pal and Push Nuts

715 pieces • 19 items • 12017 steel tray

503101	Push Nut, 1/8 Stud Size	516286	Pal Nut, 1/8 Stud Size
503102	Push Nut, 5/32 Stud Size	516287	Pal Nut, 1/8 Stud Size
503103	Push Nut, 3/16 Stud Size	516288	Pal Nut, 3/16 Stud Size
503104	Push Nut, 1/4 Stud Size	516289	Pal Nut, 3/16 Stud Size
503105	Push Nut, 5/16 Stud Size	516290	Pal Nut, 1/4 Stud Size
503106	Push Nut, 3/8 Stud Size		
503107	Push Nut, 1/2 Stud Size		
503371	Pal Lock Nut, 7/16		
503372	Pal Lock Nut, 1/2		
516281	Pal Nut, 8-32 Thread Size		
516282	Pal Nut, 3/16 Thread Size		
516283	Pal Nut, 3/16 Thread Size		
516284	Pal Nut, 1/4-20 Thread Size		
516285	Pal Nut, 1/8 Stud Size		

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

PART NO. 501736 — Body Bolts and Nuts

239 pieces • 24 items • 12017 steel tray

716895	Hex Flange Nut, M5-.80	717474	Indented Hex Body Bolt, M8-1.25 x 30mm
717259	Metric Body Bolt, 6 x 25mm	717478	Hex Nut, M8-1.25
717260	Hex Flange Nut, M6-1.00	717482	Extruded “U” Nut, M8-1.25
717261	Metric Extruded Nut, 6mm	720151	Body Bolt, M5-.80 x 20mm
717262	Metric Extruded Nut, M6-1.0 Screw	720184	Body Bolt, M6-1.0 x 25mm
717270	Hex Flange Nut, M8-1.25	720186	Body Bolt, M6-1.0 x 28mm
717271	Metric Extruded Nut, 8mm-1.25 Screw	720187	Body Bolt, M6-1.0 x 35mm
717272	Metric Body Bolt, M10-1.5 x 40mm	720194	Body Bolt, M8-1.25 x 40mm
717274	Metric Extruded Nut, M10-1.50 Screw	720297	Body Fastener Nut, 6mm
717287	Hex Flange Nut, 10mm-1.50	720316	Extruded Nut, M5-0.8 Screw
717459	Body Bolt, M6-1.00 x 20mm		
717463	Body Bolt, M6-1.0 x 25mm		
717468	Indented Hex Body Bolt, M6-1.0 x 25mm		
717472	Indented Hex Body Bolt, M8-1.25 x 25mm		

PART NO. 501712 — Fractional Body Bolts

125 pieces • 21 items • 12017 steel tray

50606	Flanged Body Bolt, 1/4 x 5/8	717255	Indented Hex Bolt, 3/8-16 x 1-1/2
50607	Flanged Body Bolt, 1/4 x 7/8	718894	Hex Head Body Bolt, 1/4-20 x 3/4
50609	Flanged Body Bolt, 5/16 x 3/4	718897	Hex Head Body Bolt, 1/4-20 x 1-1/8
50610	Flanged Body Bolt, 5/16 x 1	718898	Hex Head Body Bolt, 1/4-20 x 1-3/16
50612	Flanged Body Bolt, 5/16 x 1-1/4	718919	Hex Head Body Bolt, 5/16-18 x 15/16
50614	Flanged Body Bolt, 5/16 x 1	718920	Hex Head Body Bolt, 5/16-18 x 15/16
50631	Flanged Body Bolt, 3/8 x 1-1/8	718926	Hex Head Body Bolt, 3/8-16 x 1-3/16
702510	Bumper Bolt, 7/16 x 1-1/4		
702512	Bumper Bolt, 3/8 x 1		
702513	Bumper Bolt, 3/8 x 1-1/4		
717250	Indented Hex Bolt, 5/16-18 x 13/16		
717251	Indented Hex Bolt, 5/16-18 x 1		
717252	Indented Hex Bolt, 5/16-18 x 1-1/4		
717254	Indented Hex Bolt, 3/8-16 x 1		

PART NO. 501529 — Automotive Body Rivets

275 pieces • 25 items • 12062 steel tray

52612	Special Rivet, Dia.: 1/8	527104	Special Rivet, Dia.: 3/16
52613	Special Rivet, Dia.: 1/8	527105	Special Rivet, Dia.: 1/4
52708	Special Rivet, Dia.: 1/8	527108	Special Rivet, Dia.: 3/16
52721	Special Rivet, Dia.: 1/8	527109	Special Rivet, Dia.: 3/16
52727	Special Rivet, 1/4 Dia.	527110	Special Rivet, Dia.: 3/16
52728	Special Rivet, 1/4 Dia.,1/2 Flang. Dia.	527111	Special Rivet, Dia.: 1/8
52729	Special Rivet, 1/4 Dia.	527112	Special Rivet, Dia.: 3/16
52791	Special Rivet, 1/4 Dia.	527113	Special Rivet, Dia.: 3/16
52792	Special Rivet, Dia.: 1/4	527114	Special Rivet, Dia.: 1/8
52793	Special Rivet, Dia.: 1/4	527115	Special Rivet, Dia.: 1/8
52794	Special Rivet, Dia.: 3/16	527117	Special Rivet, Dia.: 5/32
527101	Special Rivet, Dia.: 1/4		
527102	Special Rivet, Dia.: 1/4		
527103	Special Rivet, Dia.: 1/4		

PART NO. 505850 — Slotted Hex Washer Head Sheet Metal Screws

209 pieces • 12 items • 12030 plastic tray

505801	Sheet Metal Screw, No. 6 x 1/2
505803	Sheet Metal Screw, No. 6 x 3/4
505806	Sheet Metal Screw, No. 8 x 1/2
505808	Sheet Metal Screw, No. 8 x 3/4
505810	Sheet Metal Screw, No. 8 x 1-1/4
505812	Sheet Metal Screw, No. 10 x 5/8
505814	Sheet Metal Screw, No. 10 x 1
505816	Sheet Metal Screw, No. 10 x 1-1/2
505818	Sheet Metal Screw, No. 12 x 3/4
505821	Sheet Metal Screw, No. 12 x 1-1/2
505823	Sheet Metal Screw, No. 14 x 3/4
505826	Sheet Metal Screw, No. 14 x 1-1/2

PART NO. 501438 — Extruded “U” Type Speed Nuts

170 pieces • 19 items • 12017 steel tray

716814	Extruded “U” Speed Nut, M5 Screw	717274	Metric Extruded Nut, M10-1.50 Screw
716815	Extruded “U” Speed Nut, M6 Screw	717481	Extruded “U” Nut, M6.3-1.0
716818	Extruded “U” Speed Nut, M5 Screw	717482	Extruded “U” Nut, M8-1.25
716822	Extruded “U” Speed Nut, M8-1.25 Screw	717483	Extruded “U” Nut, M10-1.50
717104	Extruded "U" Nut, 10-24 Thread Size	718670	Extruded “U” Nut, M6
717105	Extruded "U" Nut, 1/4-20 Thread Size		
717106	Extruded "U" Nut, 1/4-20 Thread Size		
717107	Extruded "U" Nut, 5/16-18 Thread Size		
717108	Extruded "U" Nut, 5/16-18 Thread Size		
717109	Extruded "U" Nut, 3/8-16 Thread Size		
717261	Metric Extruded Nut, 6mm		
717262	Metric Extruded Nut, M6-1.0 Screw		
717266	Metric Extruded Nut, M6.3-1.0		
717271	Metric Extruded Nut, 8mm-1.25 Screw		

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

PART NO. 717001

Extruded "U" Type Speed Nuts
43 pieces • 6 items • 12028 plastic tray

717104	Extruded "U" Nut, 10-24 Thread Size
717105	Extruded "U" Nut, 1/4-20 Thread Size
717106	Extruded "U" Nut, 1/4-20 Thread Size
717107	Extruded "U" Nut, 5/16-18 Thread Size
717108	Extruded "U" Nut, 5/16-18 Thread Size
717109	Extruded "U" Nut, 3/8-16 Thread Size

PART NO. 501437

"U" and "J" Type Speed Nuts
324 pieces • 25 items • 12062 steel tray

511112	"J" Speed Nut, No. 6 Screw Size	716808	"U" Speed Nut, M4.8 Screw
511113	"J" Speed Nut, No. 8 Screw Size	716809	"U" Speed Nut, M4.8 Screw
511114	"J" Speed Nut, No. 10 Screw Size	716810	"U" Speed Nut, M5.6 Screw
511115	"J" Speed Nut, No. 14 Screw Size	716811	"U" Speed Nut, M6.3 Screw
511116	"J" Speed Nut, No. 14 Screw Size	716812	"U" Speed Nut, M6.5 Screw
511118	"U" Speed Nut, No. 8 Screw Size	716819	"U" Speed Nut, M6.3 Screw
511119	"U" Speed Nut, No. 10 Screw Size	716820	"U" Speed Nut, M4.2 Screw
511120	"U" Speed Nut, No. 14 Screw Size	716861	Bumper Nut, 1/4 Stud
716802	"U" Speed Nut, M2.9 Screw	717150	"J" Cage Nut, 1/4-20 Thread Size
716803	"U" Speed Nut, M4.2 Screw	717151	"J" Cage Nut, 5/16-18 Thread Size
716804	"U" Speed Nut, M4.2 Screw	717152	"J" Cage Nut, 3/8-16 Thread Size
716805	"U" Speed Nut, M4.2 Screw		
716806	"U" Speed Nut, M4.2 Screw		
716807	"U" Speed Nut, M4.8 Screw		

PART NO. 51102

"U" and "J" Type Speed Nuts
154 pieces • 8 items • 12030 plastic tray

511112	"J" Speed Nut, No. 6 Screw Size
511113	"J" Speed Nut, No. 8 Screw Size
511114	"J" Speed Nut, No. 10 Screw Size
511115	"J" Speed Nut, No. 14 Screw Size
511116	"J" Speed Nut, No. 14 Screw Size
511118	"U" Speed Nut, No. 8 Screw Size
511119	"U" Speed Nut, No. 10 Screw Size
511120	"U" Speed Nut, No. 14 Screw Size

PART NO. 501374

Phillips Washer Head Tapping Screws
490 pieces • 23 items • 12017 steel tray

716188	Trim Screw, 8 x 1/2	716210	Trim Screw, 10 x 1-1/2
716189	Trim Screw, 8 x 3/4	716211	Trim Screw, 8 x 1/2
716190	Trim Screw, 8 x 1	716212	Trim Screw, 8 x 3/4
716192	Trim Screw, 8 x 1/2	716213	Trim Screw, 8 x 1
716193	Trim Screw, 8 x 3/4	716214	Trim Screw, 8 x 1-1/4
716194	Trim Screw, 8 x 1	716215	Trim Screw, 10 x 3/4
716195	Trim Screw, 8 x 1-1/4	716216	Trim Screw, 10 x 1
716203	Trim Screw, 8 x 1/2	716217	Trim Screw, 10 x 1-1/4
716204	Trim Screw, 8 x 3/4	716218	Trim Screw, 10 x 1-1/2
716205	Trim Screw, 8 x 1		
716206	Trim Screw, 8 x 1-1/4		
716207	Trim Screw, 10 x 3/4		
716208	Trim Screw, 10 x 1		
716209	Trim Screw, 10 x 1-1/4		

PART NO. 503008

Steel Clinch-Nut with Light Duty Installation Tools
106 pieces • 5 nuts • 5 tools • 12039 plastic tray

503111	Clinch Nut, 8-32
503112	Clinch Nut, 10-24 (3/16)
503113	Clinch Nut, 10-32 (3/16)
503114	Clinch Nut, 1/4-20
503121	Clinch Nut, 5/16-18
503176	Clinch Nut Tool, 8-32
503177	Clinch Nut Tool, 10-24 (3/16)
503178	Clinch Nut Tool, 10-32 (3/16)
503179	Clinch Nut Tool, 1/4-20
503180	Clinch Nut Tool, 5/16-18

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

PART NO. 51060

Plated Finishing Washers
400 pieces • 7 items • 12035 plastic tray

51061	Finishing Washer, Size: 8
51062	Finishing Washer, Size: 10
51063	Finishing Washer, Size: 6
51064	Finishing Washer, Size: 8
51065	Finishing Washer, Size: 10
51066	Finishing Washer, Size: 12
51067	Finishing Washer, Size: 14

PART NO. 501483

Plated Fender Washers (Oversized)
325 pieces • 16 items • 12050 steel tray

716481	Fender Washer, Size: 5/16	717144	Fender Washer, Size: 3/8
716483	Fender Washer, Size: 3/8	717145	Fender Washer, Size: 3/8
716484	Fender Washer, Size: 1/2		
716490	Fender Washer, Size: 3/16		
716491	Fender Washer, Size: 3/16		
716492	Fender Washer, Size: 5/16		
716493	Fender Washer, Size: 3/8		
716494	Fender Washer, Size: 1/2		
716495	Fender Washer, Size: 1/2		
716497	Fender Washer, Size: 3/8		
717140	Fender Washer, Size: 1/4		
717141	Fender Washer, Size: 1/4		
717142	Fender Washer, Size: 5/16		
717143	Fender Washer, Size: 5/16		

PART NO. 716001

Plated Fender Washers (Oversized)
110 pieces • 6 items • 12047 plastic tray

716478	Fender Washer, Size: 1/4
716479	Fender Washer, Size: 1/4
716480	Fender Washer, Size: 1/4
716481	Fender Washer, Size: 5/16
716482	Fender Washer, Size: 3/8
716483	Fender Washer, Size: 3/8

PART NO. 503010

Master Well Nuts
56 pieces • 6 items • 12028 plastic tray

503165	Well Nut, 6-32
503166	Well Nut, 8-32
503167	Well Nut, 10-24 (3/16)
503168	Well Nut, 10-32 (3/16)
503169	Well Nut, 1/4-20
503171	Well Nut, 5/16-18

PART NO. 501767

Popular Body Clips
300 pieces • 24 items • 12017 steel tray

716309	Trim Clip	718739	Rivet Retainer Push Pin
716319	Trim Clip	720371	Plastic Shield Retainer
716323	Trim Clip	720377	Plastic Shield Retainer
717130	Splash Shield Clip	720380	Plastic Shield Retainer
718618	Body Clip	720381	Plastic Shield Retainer
718644	Body Clip	724205	Ergo-Tuflok Drive-Type Rivet
718662	Body Clip	724206	Ergo-Tuflok Drive-Type Rivet
718679	Body Clip	724207	Ergo-Tuflok Drive-Type Rivet
718716	Rivet Retainer Screw	724208	Ergo-Tuflok Drive-Type Rivet
718721	Rivet Retainer Screw	724209	Ergo-Tuflok Drive-Type Rivet
718722	Rivet Retainer Screw		
718723	Rivet Retainer Screw		
718728	Rivet Retainer Push Pin		
718730	Rivet Retainer Push Pin		

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J10 BODY CLIPS and SMALL PARTS ASSORTMENTS

PART NO. 501769

Fast Moving Body Fasteners

282 pieces • 21 items • 12017 steel tray

527115	Special Rivet	**724139**	Ergo-Tuflok Drive Rivet
716215	Phillips Round Head Trim Screw	**724600**	Phillips Washer Head Tapping Screw
717130	Bumper, Fender, Eng. Comp. Shield Retainer	**724601**	Metric Phillips Truss Head Trim Screw
717270	Flange Nut	**724602**	Extruded U-Nut
717474	Indented Hex Body Screw, CA Point w/Attached Washer	**724603**	Rocker Panel, Wheel Liner & Air Inlet Duct Push-Type Retainer
720184	Indented Hex Head Body Bolt	**724604**	Front Bumper Push-Type Retainer w/Internal Metal Insert
720187	Indented Hex Head Body Bolt	**724605**	Phillips Truss Head Bumper Screw
720299	Free Spinning Washer Body Fastener Nut	**AD8312TFBS**	Aluminum Rivet/Steel Mandrel Rivet
720608	Drive-Type Bumper Rivet Retainer	**BF01-0625**	Aluminum Rivet/Aluminum Mandrel Bulbex Rivet
720619	Drive Rivet		
720620	Drive Pin Rivet		
720901	Front/Rear Fender Splash Shield Drive-Type Retainer		

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QUICK REFERENCE SUB-INDEX J10 BODY CLIPS AND SMALL PARTS

WINDSHIELD/GLASS/WEATHERSTRIP CLIPS, RETAINERS and GUIDES

PRODUCTS **PAGES**

WINDSHIELD and BACKGLASS REVEAL MOULDING CLIPS and FASTENERS

REVEAL MOULDING CLIPS J10-12
WINDSHIELD MOULDING CLIPS J10-12

WEATHERSTRIP RETAINERS and CLIPS

WEATHERSTRIP RETAINERS and CLIPS J10-12-13

DOOR WINDOW GLASS GUIDES and DOOR and WINDOW CRANK HANDLE CLIP

DOOR WINDOW GLASS GUIDES J10-13
DOOR and WINDOW CRANK HANDLE CLIP J10-13

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MOULDING CLIPS, WEATHERSTRIP RETAINERS and CLIPS

Illustrations are actual size unless otherwise noted.

MOULDING CLIPS

Reveal Moulding Clip Rear Window
GM
1965/on
OE: 4533699

717219 50

Reveal Moulding Clip Windshield Upper & Lower
GM
1967/on
Honda Accord
1985/on
OE: 7698976, 8763591

717222 50

Reveal Moulding Clip Windshield & Backlite
Ford/Mercury
1983/on
OE: E3SZ-6342413-A

718425 50

Reveal Moulding Clip Rear Window
GM
1969/on

OE: 8717859, 9854717
717226 50

Moulding Clip, Windshield to Panel (Lower) Side
AMC,GM
1975/on

OE: 4005540, 9731301
716409 25

Reveal Moulding Clip Windshield, Skylight, Rear & Quarter Window

GM
1966/on
OE: 8736586, 7693140
717223 25

WEATHERSTRIP RETAINERS and CLIPS

Weatherstrip Retaining Clip
10mm Stem Lgth.
7mm W x 16mm L
5mm Hole
Nissan, Honda
OE: 80832-6500, 80833-8500, 90664-671-0030

716328 25

Weatherstrip Retainer Front & Rear Door & Hood
5mm x 15mm Head Size
8mm Stem Length
Fits 6mm Hole
Mazda 626 & Millenia
1995/on
OE: GA2A-58-762

720537 25

Weatherstrip Retainer
5 x 15mm Head Dia.
5mm Stem Dia.
8mm Stem Lgth.
Ford F-150
1999/on
OE: N806340-S

720934 50

Weatherstrip Retainer
5mm Hole
2.5-4mm Max PR.
Ford Windstar
1995/on

720699 25

Weatherstrip Retainer
Black Nylon
6mm Hole
5 x 15mm Head Dia.
10mm Stem Lgth.
Lexus 1999/on
Toyota 1990/on
OE: 67867-0C010, 67867-12150, 67868-02020

720965 10

Weatherstrip Retainer
Blue Nylon
5 x 14mm Head Dia.
6.5mm Stem Dia.
10mm Stem Lgth.
Ford Explorer
2005/on
OE: N/A

724171 50

Weatherstrip Retainer
9/32" x 1/2" Head Size
7/32" Stem Dia.
21/32" Stem Lgth.
Ford
OE: 385677

720499 25

Weatherstrip Retainer Front & Rear Door
Fits 6mm Hole
8mm Stem Lgth.
Honda Civic
1995/on
OE: 91530-ST5-003

720766 5

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WEATHERSTRIP RETAINERS and CLIPS, DOOR WINDOW GLASS GUIDES, DOOR and WINDOW CRANK HANDLE CLIP

WEATHERSTRIP RETAINERS and CLIPS

IMPORT

Weatherstrip Retainer Rear Hood Cowl

8mm x 18mm Head Size
15mm Stem Length
Fits 7mm Hole

Acura Integra, Honda Civic CR-V 1992/on

OE: 91515-SR3-000

720536 12

GM

Weatherstrip Clip Front & Rear Door

Fits 6mm Hole
8mm Stem Lgth.

GM "W" Body 1997/on

OE: 10283414, 10405030

720580 25

Ford

Weatherstrip Clip Door Opening

Ford/Lincoln/Mercury 1966/on

OE: C5AB-6220586A

717211 25

Weatherstrip Retainer Door Opening

3/16 (4.5mm) Hole
.125-.310" P.R.

Chrysler 1977/on

OE: 2964547

720382 25

IMPORT

Weatherstrip & Trim Panel Clip

Datsun/Nissan & Toyota

OE: 01553-00172, 90467-07050

717620 25

IMPORT

Clip Fender Splash Shield

8mm Hole
17mm Head Dia.
11mm Stem Lgth.

Toyota Truck 1988/on

OE: 90467-10107

720786 5

Ford

Weatherstrip Retainer Plastic

M7 Hole
10mm Head Dia.
9mm Stem Dia.
14.5mm Stem Lgth.
P.R.: 1-2.4mm

Ford 'F' Series Pick Up 2004/on

OE: N/A

724079 50

Ford GM

Weatherstrip Retainer Door Opening

Ford 1965
GM 1963

OE: 4876498

717212 25

DOOR WINDOW GLASS GUIDES

GM

Plastic Guide w/Adhesive Gasket Front Door Window

GM "A" Bodies 1987/on
GM "S" Trucks 1988/on

OE: 10051034, 10114597, 12338011

Illustration Reduced

716119 12

GM

Plastic Guide Front Door Window

GM, "B", "C", & "X" Bodies 1980/on
GM "S" Body Trucks 1990-82
GM "A" Bodies 1986-82

OE: 10051034, 10114597,12338011, 20123070,20328600

Illustration Reduced

716101 12

DOOR and WINDOW CRANK HANDLE CLIP

Ford GM IMPORT

Door and Window Crank Handle Clip

Ford, GM & Toyota

717133 100

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GM | Ford | | | IMPORT | U/M UNIVERSAL & MISCELLANEOUS

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QUICK REFERENCE SUB-INDEX J10 BODY CLIPS AND SMALL PARTS

PRODUCTS **PAGES**

DOOR and INTERIOR TRIM

DOOR TRIM PANEL RETAINERS and CLIPS
RETAINERS & CLIPS J10-16-28
ASSORTMENTS J10-2-4

GARNISH, HEADLINER & INTERIOR
RETAINERS & CLIPS J10-16-28

UNIVERSAL / MISCELLANEOUS
PLASTIC SHIELD RETAINERS J10-16-28
PUSH PIN REMOVAL PLIERS J10-16

BODY PANEL MOULDING CLIPS AND RETAINERS

BUMPER, TRUNK (INTERIOR) **AND UNDERHOOD**
RETAINERS & CLIPS J10-16-28
ASSORTMENTS J10-4-5

COWL VENT
RETAINERS & CLIPS J10-16-28

DOOR, QUARTER, ROCKER, DECK (TRUNK) LID
RETAINERS & CLIPS J10-16-28

FENDER, WHEEL OPENING
RETAINERS & CLIPS J10-16-28

GRILLE, COWL AND SPLASH SHIELD
RETAINERS & CLIPS J10-16-23

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PROBLEM SOLVERS and RETAINERS & CLIPS

PUSH PIN REMOVAL PLIERS SET

Includes Straight Pliers and 75° Offset Pliers (sold in sets only)

- **Push pin pliers are designed to remove plastic pins on Honda, Toyota, GM, Saturn and many other vehicles.**
- **Special ground tips remove the pins without damage.**
- **Straight pliers can also be used to remove u-joint circle clips. The other has a 75° offset head to allow push pin removal in tight areas.**
- **These tools will save you time and frustration.**

Part No. 214013

RETAINERS & CLIPS

Weatherstrip Retainer Front & Rear Door Opening
3/16 (4.5mm) Hole
Chevrolet Lumina, Impala, Monte Carlo, Pontiac Aztek 1995/on
OE: 10169777
720379 25

Interior Trim Retainer
12mm Stem Lgth.
2mm P.R.
12mm Head
Fits 4mm Hole
Mazda
OE: 9924-90-512B
716672 25

Retainer Various Fascia Attachments
Plastic
Ford Mustang, Mercury Capri 1984/on
OE: N803170-S
716304 25

Weatherstrip Retainer Door Opening
13/64 (5.3mm) Hole
Dodge Ram 1994/on
GM 1974/on
OE: 6502328, 20699808
716424 25

Shield Retainer
Black Plastic
5/32 (4mm) Hole
720376 25

Weatherstrip Retainer Front & Rear Door
15/64 (6mm) Hole
Chevrolet Lumina 1995/on
OE: 20709017
720372 25

Panel Retainer Attaches reinforcement panel on inside of cargo box
5/16 (7.8mm) Hole
Dodge Truck 1994/on
OE: 34202335
720374 25

Hood Insulation Clip
20mm Head Dia.
6mm Hole Size
Ford
Mazda 626 1982-81
GLC 1983/on
OE: F22Z-16774-A, G030-68-885B38, GA2A-56-694
716331 25

Cowl/Fender Apron Retainer
Textured Plastic
Hole: M5, Head: 15mm
Stem Lgth.: 14mm
P.R.: 2-9mm
Nissan Altima, Frontier, Quest, Xterra & Pick-Up 1986/on
OE: 01553-01182
724028 12

Dash Panel Filler Retainer
Black
3/16 (4.5mm) Hole
GM 1977/on
OE: 25016383
716316 25

Trim Panel Retainer, Interior Trunk & Quarter Panels
Plastic
Hole: M7,Head: 16mm
Stem Lgth.: 16mm
Stem Dia.: 8mm
O/L: 19.5mm
Toyota Camry, Lexus ES300, GS300/400, RX300 1997/on
OE: 90467-08186
723104 7

Shield Retainer
Black Plastic
7/64 (2.5mm) Hole
OE: 20729523
720373 25

Weatherstrip Retainer Front & Rear Door Opening
3/16 (4.5mm) Hole
Chrysler Neon 1996/on
OE: 4658673
720375 25

Clip, Front & Rear Bumpers to Cover to Bar
Ford 1981/on
OE: 388904-S
720059 50

Mud/Stone Shield Retainer
Black Nylon
1/4" (6.4mm) Hole Dia.
3/4" Head Dia.
1/2" Stem Lgth.
Chry., Ford, GM 1976/on
OE: 3861577, 387258-S, 20032850
716333 25

Fender & Bumper Shield Retainer
1/4" (6.4mm) Hole
.115"-.400" P.R.
AMC, Chrysler, Ford & GM 1974/on
OE: 4004569, 3691590, 6031321, 389358, 332364
716319 25

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RETAINERS & CLIPS

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Fender Apron & Radiator Baffle Retainer
Plastic
Hole: M8, Head: 25.4mm
Stem Lgth.: 18.7mm
P.R.: 2.8-13mm
GM Denali, Escalade, Tahoe & Yukon 2003/on, Hummer H3 2006/on
OE: 24501057
724237 12

Clip, Hood, Fascia Components
1/4" (6.4mm) Hole
Chry. "K" Car, Omni, Horizon 1984/on
OE: 6501067
718226 50

Trim Panel Retainer Luggage Compartment
16mm Head Dia.
5mm Stem Dia.
13mm Stem Lgth.
Toyota Tercel & Paseo 1994/on
OE: 90467-05096-22
720508 12

Strut Mounting Retainer, Front Spring Insulator
Textured Plastic
Hole: M9, Head: 24mm
Stem Lgth.: 19mm
P.R.: 1.6-10mm
GM 'B', 'C', 'H', 'K' & 'U' Bodies 1999/on
OE: 22189414
723196 12

Trim Panel Retainer Trunk Lid Latch
Black
23/64 (9mm) Hole
Chrysler 1996/on
Ford Explorer 1993/on
OE: 6504043, N807721-S
720380 25

Trim Panel Retainer, Sliding Door & Lift Gate
Black
5/16 (7.8mm) Hole
Chrysler Mini Vans 1987/on
GM Saturn 1991/on
OE: 6501301, 21094146
720377 25

Shield Retainer, Radiator Yoke, Fender & Bumper
1/4" (6.3mm) Hole
5/16" Stem Dia.
13/16" Stem Lgth.
Chry.,Ford & GM 1976/on
Jeep Liberty 2002
OE: 6030441,6036007AA, 6502078, 388577-S, 1605396, 15958694
717130 100

Fascia to Bumper Clip
Ford 1981/on
OE: 389443-S
716349 25

Trim Panel Retainer
11/16" Head Dia.
5/16" Stem Dia.
13/16" Stem Lgth.
Chrysler, Ford & GM
720924 25

Retainer, Fender & Bumper Shield
5/8" Head Dia.
1/4" Stem Dia.
3/4" Stem Lgth.
Chrysler 1995-89
OE: 6501948
720927 25

Door Trim Panel Clip
VW Rabbit
OE: N90282401
716307 25

Door Trim Panel Clip Lower Door Frame Spacer
Chrysler 1985/on
Ford 1981/on
OE:4381395, 6501086, 388904-S
716350 15

Bumper Strip Retaining Clip Rear Bumper Fascia Stone Shield Retainer
Chrysler Truck 1997/on
GM 1980/on
GM 'C' Bodies 1985/on
OE:6503221, 22512276
716323 25

Bumper End Cap Retainer
11/16" Bottom Head Dia.
5/16" Stem Dia.
9/16" Stem Lgth.
GM Astro & Safari Mini-Vans 1985/on
OE: 15594416
716302 25

Trim Panel Retainer
23/32" Head Dia.
15/64" x 9/32" Stem Dia.
3/4" Stem Lgth.
Chry. Concorde, Intrepid, LHS, New Yorker, Vans & Vision 1993/on
OE: 4717224
720925 12

Trim Panel Retainer
3/16" Hole
7/16" Head Dia.
7/32" Stem Dia.
11/16" Stem Lgth.
Chrysler
OE: 6505417AA
720922 25

Trim Panel Retainer
Head Dia.
7/32" Stem Dia.
11/16" Stem Lgth.
Ford 1982/on
OE: N801994-S100
721007 12

Vinyl Splash Shield Retainer Radiator to Bar Cowl Vents
(9.5mm) Hole
GM 1977/on
OE: 1619321
718618 50

Interior Trim Clip
Gray
Ford 1983/on
OE: N802734-S
716305 25

Interior Trim Clip
Black
Ford 1983/on
OE: N802734-S
716306 25

GM | Ford | IMPORT | U/M UNIVERSAL & MISCELLANEOUS

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RETAINERS & CLIPS

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Trim Panel Retainer
3/4" Head Dia.
11/32" Stem Dia.
13/16" Stem Lgth.
Chrysler
720923 25

Grille to Shroud Clip, Vent Grille to Windshield Shroud
GM 'N' & 'L' Bodies
1985/on
OE: 20514862
716322 25

Interior Trim Clip
9/32" (7.1mm) Hole
Ford
1986/on
OE: N-804349-S
Illustration Reduced
716312 25

Interior Push Pin Clip
Ford
1980/on
OE: 388930-A
716321 25

Bumper Retainer
Plastic
Hole: M12.5, Head: 25mm
O/L: 18.8mm
P.R.: 3.2-5.0mm
Chrysler 2000/on
GM 'S' & 'T' Trucks
2002/on
OE: 15056810, 6505686AA
723024 12

Back Seat Clip
Chevrolet 'S' & 'T' Trucks
1982
Chevrolet Camaro, Pontiac Firebird
1982/on
OE: 20319841
718654 25

Carpet & Shield Retainer, Black Plastic
7/32" (5.5mm) Hole
Ford Taurus & Mercury Sable
1996/on
OE: N808370-S
720383 25

Shield Retainer
Blue Plastic
13/64" (5.3mm) Hole
Universal
OE: N80101994S
720378 25

Shield Retainer
Black Plastic
7/32" (5.5mm) Hole
Universal
720381 25

Trim Panel Clip
AMC & Chrysler
1988-84
OE: 4006529, 5208743
716313 25

Fender Apron Retainer
Plastic
Hole: M6.35
Head: 25.4mm
O/L: 23.4mm
P.R.: 2-10mm
Jeep Grand Cherokee 1999/on
OE: 6506293AA
723338 25

Dashboard Retaining Clip
Ford
1979/on
OE: N-800387-S, N09-280305
Illustration Reduced
716335 25

Rear Bumper Cover Retainer, Plastic
Hole: M6.3
Head: 21mm
Stem Length: 25mm
O/L: 27.5mm
P.R.: 3-17mm
Ford Expedition
2003/on
Use with No. 723286
723285 12

Fender Flare & Mud Flap Retainer
6.3mm Hole
22mm Head
37mm O/L
Ford Explorer & Mercury Mountaineer
2002/on
OE: W701855-S300
723056 12

Bumper Fascia Retainer
25/64" (10mm) Hole, M21 Head Dia.
M10 x 28mm Stem
Ford Taurus & Mer. Sable 1986/on
GM 'C' Body 1981/on
OE:1631564, N804379S
Illustration Reduced
716309 25

Fender Flare Retainer
Textured Plastic
Hole: M6-6.35, Head: 18mm
Stem Lgth.: 33mm
P.R.: 2-22mm
Ford Expedition, Navigator 2003/on
OE: W709002-S
723349 12

Retainer Bumper Covers
Plastic
Hole: M6.35, Head: 19mm
Stem Lgth.: 16mm
P.R.: 2.7-7.3mm
Toyota, Lexus & Scion
1995/on
OE: 90467-A0008
724134 25

HD Light Mounting Panel to Crossmember Sight Shield Retainer
Black Plastic
1/4" (6.4mm) Hole
Dodge Daytona 1993/on
OE: 6502104
720384 25

Trim Panel Clip
Natural Plastic
Hole: M7, Head: 19mm
O/L: 34mm
P.R.: 1.75-20mm
GM
1977
OE: 1699250
716320 25

Shield Retainer
Black Plastic
5/16" (7.8mm) Hole
GM 'C', 'K', 'S' & 'T' Trucks
1994/on
OE: 15975244
720371 25

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RETAINERS & CLIPS

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GM

Rear Hood Seal Retainer
Black Plastic
5/16" (7.8mm) Hole

GM 1983/on
OE: 14074081

716351 15

Ford

Interior Trim & Garnish Retainer, Textured Tan Plastic (Paint to Match)
Hole: M8, Head: 25.4mm
Stem Lgth. 37mm
O/L: 40mm
P.R.: 8-31mm
Ford Ranger 1992/on
OE: N806344-S

Illustration Reduced

723346 12

GM

Rubber Mat Fastener Retainer
GM Truck
1981/on
OE: 14027471

718627 50

GM

Door Trim Panel Retainer
GM 'N' Bodies
1985/on
OE: 20430421

716356 25

U/M

Bumper Cover Retainer
Black Nylon
13/32" Head Dia.
5/16" Stem Dia.
1-5/16" Stem Lgth.

Postal Vehicles
General Purpose

720963 12

Ford

Mud Flaps Retainer
6.3mm Hole
18mm Head
10-30mm P.R.

Ford Expedition & 'F' Trucks
1997/on

720599 12

GM

Drive Type Rivet, Rear Bumper Filler
Black Plastic
Hole: M8
Head: 20mm
Saturn
1996/on
OE: 21095797, 11519807

724116 7

Ford

Retainer, Various Front End Fascia Attachments
15mm Head Dia.
Ford
1985/on
OE: N-803857-S

716310 25

GM

Door Side Moulding Retainer
GM 'P' Body
1984/on
OE: 20455900

716303 25

IMPORT

Hood to Cowl Retainer
White Nylon
5mm Hole
6 x 16mm Head Size
15mm Stem Lgth.
Infiniti & Nissan Pathfinder
1992/on
OE: 65810-K2009

720967 12

GM

Trim Panel Clip
GM
1968/on
OE: 411700

716339 25

GM

Front Fender Flap Retainer
3/16" Hole Size
5/8" Head Dia.
Cadillac
1980/on
OE: 1690410

718656 50

GM

Front Air Deflector Retainer
Black Nylon
18mm S. Head Dia.
26mm M. Head Dia.
30mm Flange Dia.
24mm Stem Lgth.
GM 'C' & 'K' Trucks 1999/on
OE: 15733971
Use with No. 721035

721034 10

GM

Front Fender Splash Shield Clip
GM 'A' Bodies
1986-80
OE: 25517947

718671 25

Ford

Push Type Retainer Pin
6.3mm Hole Size
2mm Head
17mm O/L
Ford
1980/on
OE: 800737-S

718409 50

IMPORT

Door Trim Panel Clip
9mm Hole
13mm Top Hd. Dia.
16mm Mdl. Hd. Dia.
18mm Btm. Hd,. Dia.
9.5mm Stem Dia.
17mm Stem Lgth.
23mm O/L
Toyota Land Cruiser, 2WD Truck
1991/on
OE: 67771-30090

720776 7

GM IMPORT

Trim Board Retainer Front & Rear Door
Yellow
9mm Hole Dia., 13mm Top Hd. Dia.
16mm Mdl. Hd. Dia., 18mm Up. Hd. Dia.
20.5mm O/L, 9.5mm Stem Dia.
14mm Stem Lgth.
Toyota Celica, Corolla & Previa, Lexus 1990/on
Chev. Geo, Metro & Tracker 1989/on
OE: 95008221, 67771-12050

720807 25

GM

Door Panel Retainer
Plastic
Hole: M10
Upper Head:19.5mm
O/L: 28.5mm
P.R.: 2.5mm
Trim Thickness: 4.5mm
Chev. Malibu 'N' Bodies 2004/on
OE: 11519030

Illustration Reduced

723358 7

IMPORT

Trim Panel Clip
Hole: 6mm
Head Dia.: 14mm
Stem Lgth: 16mm
Panel Thickness: 5mm
Nissan/Toyota
OE: 76906-T3000, 90467-11005

716330 25

IMPORT

Trim Panel Clip
5mm Hole
13mm Hd. Dia.
11mm Stem Lgth.
Lexus, Geo Prizm, Chev. Nova, Toyota
1985/on
OE: 90467-08004, 90467-08011, 94842841, 94849113

716329 15

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RETAINERS & CLIPS

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Trim Panel Clip
Chrysler, Dodge, Some Japanese
OE: MB-178894
717608 25

Trim Panel Retainer
Turquoise Nylon
Top Head Dia.: 13mm
Mid. Head Dia.: 16mm
Btm. Head Dia.: 18mm
Stem Dia.: 8.5 x 9mm
Stem Lgth.: 14mm
O/L: 20mm
Toyota Sienna 2004/on
OE: 90467-10188
724053 12

Door Trim Panel Retainer
White Nylon
Top Head Dia.: 13mm
Mid. Head Dia.: 18mm
Btm. Head Dia.: 16mm
Stem Dia.: 9mm
Stem Lgth.: 15mm
Honda Accord 1990/on
OE: 91560-SM4-003
724019 12

Door Panel Retainer
Plastic
Hole:M7, Upper Head Dia.:15mm
O/L: 23mm
Trim Thickness: 2.36mm
P.R.: 1.7-3.0mm
Jeep Grand Cherokee 2003/on
OE: 6507055AA, 6507686AA
724005 25

Interior Trim Clip
Nissan
OE: 01553-01251
716327 15

Trim Panel Clip
Datsun
OE: 01553-00051
717610 25

Cowl Vent Retainer
Plastic w/Seal
Hole: M7, Upper Head: 13mm
O.L.: 18mm
Chevrolet Equinox 2005
OE: 5482103
724111 5

Trim Panel Clip
9.5 x 14mm Stem
13mm Top Hd.
15.5mm Mdl. Hd.
18mm Btm. Hd.
20.5mm O/L
GM & Toyota
OE: 95005064, 67771-01010
716343 15

Door Panel Retainer
Fits 8mm Hole
11mm Stem Lgth.
12.5mm Top Hd.
16mm Mdl. Hd.
13mm Btm. Hd.
20mm O/L
Nissan, Honda
OE: 67771-22020
716680 5

Trim Panel Retainer
8mm Hole
13mm Sm. Head Dia.
18mm Lg. Head Dia.
14mm Stem Lgth.
Toyota Avalon & Camry 1993/on
OE: 67771-06070
720546 7

Trim Panel Retainer
8mm Hole
13mm Top Head
16mm Middle Head
17mm Bottom Head
Nissan Pathfinder 1995/on
OE: 84915-0W000
720966 10

Door Panel Retainer
Fits 8mm Hole
9.5mm Stem Dia.
14mm Stem Lgth.
13mm Top Hd.
15.5mm Mdl. Hd.
18mm Btm. Hd.
20.5mm O/L
Toyota
OE: 67771-22010
716679 15

Door Panel Retainer
White Nylon
5/16" Stem Dia.
13/16" Stem Lgth.
11/16" Top Hd.
11/16" Mdl. Hd.
25/32" Btm. Hd.
Chev. Impala, Lumina & Monte Carlo 2006-00
OE: 10305191
Illustration Reduced
724153 25

Door Trim Panel Retainer
7mm Hole
15mm Sm. Hd. Dia.
16mm Mdl. Hd. Dia.
18mm Btm. Hd. Dia.
Jeep Grand Cherokee 1999/on
OE: 6505539-AA
721036 12

Door Trim Panel Clip
Ford
1977/on
OE: 387477-S
717214 25

Door Trim Panel Clip
Ford Mustang, Mercury Capri
GM Saturn
1991/on
OE: N-802900, 21042958
716337 25

Door Trim Panel Clip
Ford
1981/on
OE: N-801925
718422 25

Trim Panel Clip
9.5mm Stem Dia.
14mm Stem Lgth.
13mm Top Hd.
15.5mm Mdl. Hd.
18mm Btm. Hd.
20.5mm O/L
Toy., Mazda, Isuzu
OE: 67771-12010F, 894-226-4920, 9927-40-825
717616 25

Door Panel Retaining Clip
Ford
1978/on
OE: 388499-S
716318 25

Door Trim Panel Clip
Ford
1981/on
OE: 389144-S
718415 50

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RETAINERS & CLIPS

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Door Trim Panel Retainer
7mm Hole Dia.
18mm Head Dia.
2-7mm P.R.
Buick Century & Regal, Olds. Silhouette & Pon. Trans Sport 1997/on
OE: 10287971
716344 50

Door Panel Retainer
Plastic
7mm Hole
18mm Head Dia.
29.5mm O/L
1.5-11.5mm P.R.
GM Terraza, Uplander, Montana & Relay 2005/on
OE: 11588863
724188 12

Door Panel Retainer
Fits 8mm Hole
14mm Stem Lgth.
17mm Btm. Hd. Dia.
20mm O/L
Honda, Isuzu & Mazda
OE: 9927-40-821
716681 15

Door Trim Panel Retainer
GM
1971/on
OE: 2064891, 9818648, 9883583
52616 100

Door Trim Panel Clip
GM
1978/on
OE: 3065575
717163 100

Rear Quarter Panel Retainer
GM
'C' Body
OE: 20480475
716342 25

Door Trim Panel Clip
Nylon
(Use on cardboard panels)
AMC, Chrysler, Ford, GM & VW 1976/on
OE: 4005470, 6003349, 6032363, 385661-S, 9685057, N98905101
718230 25

Door Panel Clip
Chevrolet, Pontiac 'F' Bodies 1982/on
GM Truck 1989/on
OE: 20374473, 12337920
716336 25

Trim Panel Clip
Chevrolet & GMC Trucks 1976/on
OE: 363137
716315 25

Door Trim Panel Clip
GM 'P' Bodies 1984/on
OE: 20429451
716338 25

Trim Panel Clip
9mm Stem Dia.
18mm Stem Lgth.
19mm Hd. Dia.
AMC Renault 1984/on
VW 1982/on
OE: 8934-201-681, 175-867-299
716357 25

Door Trim Panel Clip
Nissan Truck
OE: 01553-S3500
716308 25

Panel Moulding Clip
Ford
1976/on
OE: 387496-S
718430 50

Trim Panel Clip
GM 'C' Bodies 1985/on
OE: 20451401
716317 25

Door Trim Panel Clip
Ford
1975/on
OE: 385188-S
718400 25

Hood Insulation Clip
GM
1980/on
OE: 20030401
718616 50

Hood Insulation Clip
GM
1980/on
OE: 20064875
718615 50

Hood Insulation Clip
GM
1964/on
OE: 3078511, 3977775
717320 50

Hood Insulation Clip
AMC 1976
Chry. 1972/on
Ford 1973/on
OE: 4005513, 6003351, 385330-S, D30Z-16776-A
717131 50

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RETAINERS & CLIPS

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Hood Insulator Retainer
6.3mm Lower Hole
30mm Head
3.7mm P.R.
Chrysler
LH, LHS
1997/on
OE: 4878883AA
720907 25

Hood Insulation Retaining Clip
Chrysler
1985/on
OE: 4341060
716314 25

Hood Insulation Clip
Heavy Duty Black Nylon
1-3/16" Head Dia.
3/8" Stem Dia.
3/4" Stem Lgth.
Ford
1974/on
OE: 385595-S, 386553-S
717319 50

Hood Insulation Retaining Clip
Ford
1975/on
OE: 388908-S
716325 25

Trim Panel Retainer w/Sealer
16mm Top Head Dia.
22mm Btm. Head Dia.
9mm Stem Dia.
15mm Stem Lgth.
30mm O/L
Dodge
Neon
2000/on
OE: 5023111AA
720933 10

Hood Seal Retaining Clip
Black Nylon
6mm Hole
11mm Head Dia.
8mm Stem Lgth.
Honda
Odyssey
1999/on
OE: 91518-S10-003
721016 12

Front Cowl Retaining Clip
13mm Head Dia.
6mm Stem Dia.
10mm Stem Lgth.
Acura
1996/on
OE: 91501-SL4-003
720539 12

Hood Seal Retainer
7mm Hole
12mm Head Dia.
9mm Stem Lgth.
Honda Civic 3Dr., 4Dr. & Coupe, Acura Integra 1994/on
OE: 91518-SM4-003
720762 7

Trim & Panel Clip
1/4" Hole
1/2" Pan Head Dia.
Ford
OE: 375373-S
716311 25

Grille Plate Hold Down Retainer
Chrysler
1985/on
OE: 6032832
718227 50

Hood Insulation Retainer
8mm Hole
25mm Head
4mm P.R.
Pontiac Vibe
2003/on
Toyota Camry & Lexus 1998/on
OE: 90467-09050, 88970747, 94858509
720632 7

Door Trim Panel Clip
7mm Hole
14mm Stem Lgth.
1mm Panel Thk.
Chrysler Mini Vans
1997/on
OE: 6504452
720739 25

Door Trim Panel Retainer
Green
7mm Hole
15mm Stem Lgth.
2mm Panel Thk.
Chrysler Mini Vans, Cirrus, Stratus, Breeze
1995/on
OE: 6503204
720733 25

Door & Interior Trim Panel Retainer, Plastic
M9 Hole, 13mm Upper Head
1mm P.R., 16mm O/L
2mm Trim Thk.
Ford Probe 1992/on
Mazda 1989/on
Kia Rio, Sephia & Spectra 1998/on
OE: G350-68-AB1, MG350-68AB1
723205 5

Door Panel Retainer
9.5mm Hole
14mm Stem Dia.
14mm Stem Lgth.
Chrysler Mini Vans
1997/on
OE: 6505292AA
720741 12

Cowl Panel & Luggage Compartment Push Type Retainer, Black Nylon
7mm Hole
16mm Head Dia.
9mm Stem Lgth.
Toyota Avalon, Camry, Celica & Solara 1993/on
OE: 90467-07146
721033 10

Front Fender Splash Shield Drive Type Retainer
7mm Hole
8mm Stem Lgth.
20mm Flange Dia.
3mm G.R.
Toyota Tercel
1994/on
OE: 90467-07166
720785 7

Front Bumper & Radiator Support Drive Type Rivet
Textured Plastic, Reusable
M8 Hole, 20mm Flange
13mm Stem Lgth.
2-6mm P.R.
Nissan Altima, Maxima & Quest 2002/on
Infiniti FX35/45 2003/on
OE: 11296-AG000
724027 12

Front Fender Drive Type Retainer
7mm Hole
20mm Flange Dia.
3mm G.R.
Honda Civic, DelSol
1993/on
OE: 91501-S04-003
720767 7

Bumper Cover & Wheel Housing Push Type Retainer
9mm Hole
18mm Head Dia.
15mm Stem Lgth.
Toyota Corolla, Mazda 626, Honda
1992/on
OE: 90467-09139
720548 7

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RETAINERS & CLIPS

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Front Fender Liner Drive Type Rivet
M7 Hole,18mm Flange
7.5mm Stem Lgth.
3mm P.R.
Pontiac Vibe 2003
Toyota Celica, Corolla, Solaro & Matrix 1999/on
OE:88970767,90467-10183
723368 5

Front & Rear Fender Splash Shield Drive Type Retainer
8mm Hole
20mm Flange Dia.
4mm P.R.
Honda Accord & Prelude, Acura 1994/on
Mits. Lancer 2002/on
OE: 91512-SX0-003, MU000319
720901 12

Front & Rear Bumper Drive Type Retainer
10mm Hole
13mm Stem Lgth.
20mm Flange
7mm P.R.
Honda, Acura 3.5 RL 1996/on
OE: 91503-SZ3-003, 91503-SZ5-003
720619 7

Front Fender Drive Type Retainer
Reusable
8mm Hole, 4mm P.R.
9mm Stem Lgth.
20mm Flange
Chrysler, Mits. 1999/on
Nissan Maxima, 300SX 1994/on
OE: 01553-09321, MR328954
720637 7

Door & Interior Trim Panel Retainer, Plastic 2 Piece
M9-9.5 Hole,30mm O/L
16mm Stem Lgth.
0.66-1.9mm P.R.
16mm Upper Head
3mm Trim Thk.
Chry. PT Cruiser 2001/on, Neon 2000/on, Jeep Liberty 2002/on
OE: 5023173AA
Illustration Reduced
723336 12

Cowl Grille Drive Type Rivet Retainer
7mm Hole
9mm Stem Lgth.
17mm Flange
3mm P.R.
Toyota Camry 1998
Lexus 1990/on
OE: 90467-07117
720627 5

Bumper Retainer
10mm Hole
18mm Stem Lgth.
18mm Flange
Nissan Maxima & 240SX 1994/on
OE: 01553-09241
720796 5

Bumper & Front Grille Drive Type Retainer
10mm Hole
20mm Flange
5mm P.R.
Honda & Odyssey, Acura 3.5RL Sedan 1995/on
OE:91503-SZ3-003
720620 7

Grille Mounting Drive Type Rivet, Plastic
M10 Hole
20mm Flange
14mm Stem Lgth.
4-8mm P.R.
Honda Element 2003/on
OE: 91503-S0K-A01
723374 7

Garnish Side Protector Push Type Retainer
8mm Hole
18mm Head Dia.
15mm Stem Lgth. (Not Including the Pin)
Honda Odyssey 1995/on
OE: 90505-SX0-003
720549 7

Front Bumper Drive Type Rivet, Plastic
M5 Hole
10mm Flange
3-8mm P.R.
BMW 3, 5 & 8 Series 1991/on
OE: 51161-881-149
723109 25

Grille Mounting Drive Rivet Retainer
8mm Hole Size
17mm Washer
Chrysler 1978/on
OE: 6031383
718738 25

Front License Plate, Grille to Headlamp Bracket Push Type Retainer
Black Nylon
1/4" Hole
5/8" Head Dia.
7/16" Stem Lgth.
Ford 1969/on
Fiesta 1978/on
OE: 383142-S
718912 50

Push Type Retainer
5/16" Hole Size
21/32" Head Dia.
19/32" Stem Lgth.
GM
OE: 14039420
718740 25

Splash Shield Grille Attachment Push Type Retainer
M8 Hole Size
15 x 19mm Head Size
GM 1981/on
OE: 14032200
718742 25

Grille Attachment Push Type Retainer
M8 Hole Size
8 x 27mm Head Size
GM & VW
OE: 14015161, 175-853-695A
718743 25

Cowl Grille Push Pin Type Rivet Retainer
M5 Sq. Hole Size
8mm Stem Lgth.
8 x 12mm Rectangular Face
1-4mm G.R.
Nissan Pick-up 1986/on
OE: 66814-01G00
718727 15

Door Panel Retainer
Plastic, Push to Release
M6.3 Hole
18mm Flange
9mm Stem Lgth.
Toyota Camry, RAV4 4 Runner & Tacoma 1995/on
OE: 90467-07085
723126 12

Cowl, Moulding Lamps, Instrument Panel Drive Type Rivet
Plastic, Push to Release
M7 Hole
16mm Head
4.5-6.5mm P.R.
GM 1992/on
Saturn 1993/on
Cadillac 'K' & 'E' Body1999/on
OE: 11517824, 21035345
723013 5

Cowl Grille & Lower Radiator Opening Cover Drive Type Rivet
Plastic w/Seal, Push to Release
M9 Hole
25mm Flange
13mm Stem Lgth.
3 x 10mm Shoulder
Lincoln LS 1999/on
OE: W705956-S300
Illustration Reduced
723176 5

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RETAINERS & CLIPS

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IMPORT

Bumper Cover & Fender Well Drive Type Rivet

M6.3 Hole
10.8mm Flange
2.5mm P.R.
Honda Accord, Prelude, Legend & Odyssey 1983/on
OE: 90657-SB0-003

723091 5

Bumper Cover & Garnish Moulding Drive Type Rivet, Textured Plastic

M7 Hole, 15mm Head
14mm Flange, 2.5mm P.R.
13mm Stem Lgth.
Chry. Sebring, Dodge Stratus, Mits. Eclipse 2000/on
OE: MR478262
Use With Part No. 723206

723207 7

Front Fender Mud Skirt Retainer

M6 Hole; 7mm G.R.
17mm Washer
AMC, Chry. & Ford GM 1983/on
OE: 8934-201-621, E3DZ-14A163A, 14019205, 14019206, 34201621

718730 25

Cowl Vent Drive Type Rivet, Plastic

M7.5 Hole Slot
17.8mm Flange
13mm Stem
1-3mm P.R.
Pontiac Aztek 2001/on
OE: 10301966, 10425306

723031 5

Front Fascia Attachment Push Pin Type Retainer

M9.5 Hole
25mm Washer Face
7mm G.R.
GM 1982/on
OE: 14045480

718662 25

Radiator Overflow Bottle, Windshield Washer Bottle Drive Rivet Retainer

M8 Hole
21mm Washer
2-6mm G.R.
GM 1981/on
OE: 14019226, 14071289

718739 25

Fender Splash Shield Drive Type Rivet

M7 Hole
20mm Flange
10mm Stem Lgth.
Toyota Camry, MR2, Sienna & Echo 1997/on
OE: 90467-07164

723119 5

Front Auxillary Lamp Mounting & Pivots Drive Type Rivet Plastic

M6.35 Hole
17.8mm Flange
14.2mm Stem Lgth.
1.5-7.6mm P.R.
GM 1988/on
OE: 16514113

723025 12

Rear Bumper Energy Absorbing Strip Push Pin Type Retainer

Fits into 1/2" Hole
1" Head Dia.
1/8" P.R.
Illustration Reduced
GM 1979/on
OE: 5973400

718644 25

Rear Bumper Energy Absorbing Strip Push Pin Type Retainer

Fits into 1/2" Hole
7/8" Head Dia.
5/32" P.R.
Illustration Reduced
GM 1979/on
OE: 5973823

718645 25

Rear Bumper Energy Absorbing Strip Push Pin Type Retainer

Fits into 1/2" Hole
1" Head Dia.
1/4" P.R.
Illustration Reduced
GM 1979/on
OE: 5973996

718646 25

Trim Panel Drive Rivet Retainer Plastic

5mm Hole
12mm Washer Face
Datsun
OE: 90467-06054

717612 25

Cowl Ledge Weatherstrip Drive Rivet Retainer

M6 Hole Size
17mm Washer Face
Chrysler 1968/on
Ford
GM 1970/on
OE: 387843-S, 472434, 480534, 6031390

718728 25

Tailgate Lining Push Type Retainer Black Nylon

7mm Sq. Hole
17mm Head Dia.
16mm Stem Lgth.
Honda Prelude 1997/on
OE: 91570-SK7-003ZF

721032 10

Trim Attachments Drive Type Retainer

M7 Hole Size
15mm Washer Face
15mm Cover Head
Toyota
OE: 10116-41810

718736 15

Front Bumper Fascia Drive Type Rivet Retainer

6.35mm Hole
18mm Flange
2-6mm P.R.
Jeep Grand Cherokee 1994/on
OE: 6503454

720609 12

Various Fascia Attachments Drive Type Rivet Retainer

M6.3 Hole Size
15mm Washer
5-10mm G.R.
GM & Ford 1986/on
OE: N803709-S, 15681408

718733 25

Engine Compartment Drive Type Retainer

M6.3 Hole Size
25mm Washer
12mm Shoulder
2-12mm G.R.
Illustration Reduced
GM 'W' Body 1988/on
OE: 14101262

718734 25

Front Trunk Compartment Drive Type Retainer

6mm Hole Size
17mm Washer
Ford/Mercury 1984/on
GM Fiero 'P' Body, Chrysler 1985/on
OE: N803362-S, 20510029, 34202672

718679 25

Front Bumper Push Type Retainer

M9 Hole
M15 Head Dia.
27mm Stem Lgth.
Lexus LS400 1993/on
Toyota Celica 1989/on
OE: 90467-09096

720386 10

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RETAINERS & CLIPS

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Various Fascia Attachments Drive Type Retainer
6mm Hole Size
17mm Washer
3-6mm G.R.
Ford Mustang, Capri 1985/on
OE: N803716-S
718732 25

Rear Door Radio Speaker Push Type Retainer
6.3mm Hole
13.5mm Flange
9mm Max. P.R.
GM 'G' Van, 'C' & 'K' Trucks 1995/on
OE: 15960621
720585 12

Bumper Cover Drive Type Rivet Retainer
8.5mm Hole
18mm Flange
4-8mm P.R.
Chrysler Concorde, LHS, Dodge Intrepid, Eagle Vision 1998/on
OE: 6504521
720608 12

Cowl Grille & Front Bumper Drive Type Rivet Retainer
M6 Hole Size
25mm
WasherFace
Ford 1983/on
GM 'P', 'N' & 'Y' Bodies 1984/on
OE:802781-S,14093088
718423 25

Splash Shield & Fascia Drive Type Rivet Retainer
M6 Hole Size
25mm
Washer Face
Chry. 1993/on
Ford 1984/on
OE: N803421-S, 6501590
Illustration Reduced
718427 25

Bumper Fascia Drive Type Retainer
M9.5 Hole Size
25mm Washer
12mm Shoulder
7-10mm G.R.
GM
1987/on
OE: 22535007
718744 25

Front Bumper Fascia Retainer
M6 Hole Size
17mm Washer Face
10mm Shoulder
Buick, Oldsmobile 1988/on
OE: 1636632, 20687704
718729 25

Side Radiator Shield Push Type Retainer
Black Nylon
Fits 7mm Hole
20mm Head Dia.
17mm Stem Lgth.
Chrysler Sebring & Dodge Stratus 2001/on
OE: 6506132-AA
723260 12

Front Bumper Fascia Drive Type Retainer
9.5mm Hole Size
18mm Head Dia.
Oldsmobile Cutlass 1990/on
GM Lt. Truck 1996/on
OE: 10157900, 11517803, 15993201
720333 12

Wheel Opening Push Type Retainer
1/4" Hole
19/32" Head Dia.
3/4" Stem Lgth.
GM Saturn 1991/on
OE: 21077123
720917 12

Front Bumper Drive Type Rivet
Plastic
M8 Hole
20mm Flange
26mm Stem Lgth.
3-5mm P.R.
Ford & GM 1997/on
OE: 11518017, W708530-S300
723309 7

Various Application Push Type Retainer
M7 Hole Size
25mm Washer Face
12-15mm G.R.
Ford Mustang, Mercury Capri
OE: N804674-S
Illustration Reduced
718737 25

Bumper & Rear Wheel Apron Drive Type Rivet
Plastic
M8 Hole
16.5mm Flange
27mm Stem Lgth.
11-12mm P.R.
GM Saturn L Series 2000/on
OE: 15994165
723308 12

Rear Bumper Fascia Drive Type Retainer
12.5mm Hole Size
14 x 22mm Head Dia.
Oldsmobile Cutlass 1990/on
OE: 10082553
720335 12

Rear Bumper Cover Drive Type Retainer
8.5mm Hole
17mm Flange
20mm Head
5mm P.R.
Illustration Reduced
GM 'C' & 'K' Trucks 1999/on
OE: 15153415
720586 12

Ergo-Tuflok Drive-Type Rivet, Flares & Cowl
Plastic
Hole: M6.25-6.53
Flange: 18mm
Stem Lgth.: 17.5mm
P.R.: 2-4mm
GM Equinox & Torrent 2002/on
Chrysler
OE: 11589289, 6508863AA
724205 25

Ergo-Tuflok Drive-Type Rivet, Cowl Vent & Bumper
Plastic
Hole: M6.25-6.53
Flange: 18mm
Stem Lgth.: 20mm
P.R.: 4.5-7mm
GM "A", "W", "L" & "M" Body 2002/on
Illustration Reduced
OE: 11589290
724138 25

Ergo-Tuflok Drive-Type Rivet, Air Dam & Grille
Plastic
Hole: M6.25-6.53
Flange: 18mm
Stem Lgth.: 22mm
P.R.: 7-9.5mm
GM
2003/on
Ford
OE: 11589291, W713331-S300
Illustration Reduced
724206 25

Ergo-Tuflok Drive-Type Rivet, Flares & Panels
Plastic
Hole: M7.75-8.25
Flange: 19mm
Stem Lgth.: 16mm
P.R.: 5-7mm
GM & Chrysler 2007/on
OE: 15296830, 5116530AA
724207 25

Ergo-Tuflok Drive-Type Rivet, Air Dam, Fender Flares/Apron
Plastic
Hole: M8.25-8.53
Flange: 20mm
Stem Lgth.: 20mm
P.R.: 2-4.5mm
GM
2007/on
OE: 11589292
724208 25

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Ergo-Tuflok Drive-Type Rivet, Fender Apron
Plastic
Hole: M8.25-8.53
Flange: 19mm
Stem Lgth.: 14mm
P.R.: 2.7-5.3mm
GM Cobalt, G5 2003/on
Avalanche, Escalade 2003/on
OE: 11609417
724109 25

Ergo-Tuflok Drive-Type Rivet, Cowl Vent & Fender
Plastic
Hole: M8.25-8.53
Flange: 20mm
Stem Lgth.: 21.5mm
P.R.: 4.5-7mm
GM "W" & Hummer "N" Body 1997/on
Ford 2006/on
Illustration Reduced
OE: 11589293, W712196S300
724139 12

Ergo-Tuflok Drive-Type Rivet, Fenders & Bumpers
Plastic
Hole: M8.25-8.53
Flange: 20mm
Stem Lgth.: 24mm
P.R.: 7-10mm
GM C/K Trucks, SUV's Hummer 2005/on
Illustration Reduced
OE: 11589294
724209 25

Ergo-Tuflok Drive-Type Rivet, Fender, Wheel & Bumper, Plastic
Hole: M9.25-9.53
Flange: 18mm
Stem Lgth.: 20mm
P.R.: 3-5.7mm
GM "W" & "M" Body 2000/on, Jeep Wrangler 2000/on
Illustration Reduced
OE: 11561368, 6508712AA
724140 12

Ergo-Tuflok Drive-Type Rivet, Fuel Tank & Brakes
Plastic
Hole: M10.25-10.53
Flange: 25mm
Stem Lgth.: 20mm
P.R.: 3-6mm
GM HHR, G5 & C/K Trucks 2005/on
Chrysler & Ford
Illustration Reduced
OE: 11589295, 5GUU9K11BA, W712665-S300
724210 25

Ergo-Tuflok Drive-Type Rivet, Fender Apron
Plastic
Hole: M10.25-10.53
Flange: 25mm
Stem Lgth.: 23mm
P.R.: 6-9mm
GM 2007/on
Illustration Reduced
OE: 11589296
724211 25

Retainer Push Type, Door Trim Panel
White Nylon
Head Dia.: 9/16"
Stem Lgth.: 41/64"
Fits into 1/4" hole
GM Trucks "C", "K", 1, 2, 3 1995/on
OE: 15960325
724129 25

Rivet Drive Type, Wheelwells, Splashshield, Radiator, Sight Shield & Bumpers
Plastic
Hole: M8
Flange: 20mm
P.R.: 3-8mm
GM Saturn 1991/on
GM C/K Truck 1999/on
OE: 15969147, 21030249
Illustration Reduced
724133 25

Rivet Drive Type, Fender Liner
Plastic, Textured Head
Hole: M7
Flange: 18mm
Stem Lgth.: 6.5mm
P.R.: 3.5mm
Toyota Land Cruiser 1998/on
Rav4 2001/on
Lexus LX470 1998/on
OE: 53879-60010
724203 5

Bumper Covers & Grille, Drive-Type Rivet
Plastic
Hole.: M9
Flange: 18mm
Stem Lgth: 31mm
P.R.: 3.5-10mm
Toyota & Scion 2000/on
OE: 52161-20010
724451 6

Engine Under Cover, Drive-Type Rivet
Plastic
Hole: M7
Flange: 20mm
Stem Lgth.: 10mm
P.R.: 2.2-6.5mm
Toyota Avalon, Camry, Solara 2002/on
& Lexus ES300/330 2002/on
OE: 90467-07201
724461 6

Fender & Bumper Push Type Retainer
Black Nylon
Fits 9mm Hole
18mm Head Dia.
12mm Stem Lgth.
Honda & Mitsubishi 1998/on
723095 7

Front & Rear Bumper, Trunk Trim Drive Type Rivet
Plastic
M8 Hole, 18mm Flange
10mm Stem Lgth.
6.3mm P.R.
Nissan Maxima, Sentra 1994/on
Infiniti G20, I35, Q45 1999/on
Lexus & Toy. 1997/on
OE: 01553-09611, 90467-08185
723186 7

Bumper Fascia Push Type Retainer
Black Nylon
Fits 9mm Hole
18mm Head Dia.
22mm Stem Lgth.
Nissan Altima 1997/on
OE: 63848-9E001
Illustration Reduced
723295 5

Bumper Cover & Interior Trim Drive Type Rivet
Plastic
M9 Hole,18mm Flange
13mm Stem Lgth.
7mm P.R.
Chry. Sebring, Dodge Stratus 2001/on
Honda & Mits. 1997/on
OE: MR200300
Illustration Reduced
723208 12

Door Trim Panel Retainer
w/Sealer
13mm Sm. Head Dia.
18mm Lg. Head Dia.
8mm Stem Dia.
18mm Stem Lgth.
.8-1.5mm P.R.
Chrysler Mini Vans & Dodge Durango 1998/on
OE: 55350747AB
Illustration Reduced
720961 10

Bumper Cover & Grille Push Type Retainer
Black Nylon
Fits 10mm Hole
19.5mm Head Dia.
15mm Stem Lgth.
Mazda 1999/on
OE: GD7A-50-EA1
724122 5

Cowl Vent Drive Type Rivet
Reusable, Plastic
M7 Hole
20mm Flange
8.5mm Stem Lgth.
5mm P.R.
Toyota RAV4 2002
OE: 90467-07195
723191 7

Radiator Sight Shield Drive Type Rivet, Plastic, Twist to Release
M9 Hole
25mm Flange
14mm Stem Lgth.
3 x 10mm Shoulder
Lincoln LS 2000/on
OE: W705957-S300, W706519-S300
Illustration Reduced
723177 5

GM | Ford | Chrysler | Import | U/M UNIVERSAL & MISCELLANEOUS

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RETAINERS & CLIPS

Illustrations are actual size unless otherwise noted.

GM

Illustration Reduced

Door Panel Retainer, Plastic
Contains 12 yellow Pins & 12 Grommets w/Seal
Both must be used to replace the factory retainer.
M9 Grommet Hole
24mm Flange Dia.
13mm Upper Pin Head
1mm P.R., 32mm O/L
3mm Trim Thk.
Pontiac Grand Am & Oldsmobile Alero 2002/on
OE: 10363811, 22699649, 22704458, 22713392, 22722859, 22722860
723364 12

GM IMPORT

Cowl Grille Screw Type Retainer M7 Hole
15mm Washer
11mm Stem
2-6mm G.R.
GM, Mazda & Toyota
Honda Accord 1991-90
OE: 94198687, N304-13-356-A, 90467-06017-20,90657-SA6-0030
718720 15

IMPORT

Headlamp Housing to Grille Screw Type Retainer
M6 Hole Size
15mm Washer
11mm Stem
2-6mm G.R.
Honda Accord 1984/on
Isuzu & Nissan
OE: 10998-30880, 894-298-1190, 90684-SA5-003
718711 15

IMPORT

Front Fender Skirt Push Type Retainer
6mm Hole
15mm Head Dia.
13mm Stem Lgth.
Honda Prelude 1992/on
OE: 90683-SA5-003
720507 7

IMPORT

Bumper & Fascia Attachments Screw Type Retainer
M8 Hole Size
22mm Washer
11mm Shoulder
2-10mm G.R.
Nissan 1986/on
OE: 01553-03101
718713 15

Ford GM

Rear Bumper Fascia, Trunk Trim Screw Type Retainer
6.3mm Hole Dia.
17.5mm Head Dia.
18mm Stem Lgth.
3-8mm P.R.
Lincoln T. C. 1995/on
GM 'J' & 'N' Bodies 1991/on
OE: N808147-S, 10139822, 25680782
720669 12

GM IMPORT

Bumper Cover Push Type Retainer
9mm Hole
18mm Head Dia.
25mm Stem Lgth.
Geo Prizm 1997-93
Pontiac Vibe 2003/on
Lexus ES300, Toyota 4-Runner,Corolla,RAV4 & Tundra 1993/on
OE: Lexus 90467-09101
720550 12

Ford

Various Exterior Components Screw Type Retainer
M6.3 or 1/4" Hole Size
15mm Washer
5-12mm G.R.
Chrys. & Ford 1987/on
OE: N803946-S, 6502871
718716 25

IMPORT

Front Bumper Rivet Plastic
M9 Hole
18mm Flange
20mm Stem Lgth.
4-6mm P.R.
Nissan Frontier & Xterra 1998/on
OE: 63848-40Y00
723381 7

GM

Various Panel Attachments Screw Type Retainer
M10 Hole Size
21mm Washer Face
9-15mm G.R.
GM
OE: 1633999
718725 15

GM IMPORT

Cowl Panel to Reinforcement Plate Screw Type Retainer
M6 Hole Size
14mm Washer Face
16mm Stem Lgth.
8mm G.R.
Geo Storm 1990/on
Nissan 1980/on
OE: 94051993, 66860-01W01
718710 15

Ford IMPORT

Inner Fender Shield Screw Type Retainer
M8 Hole Size
20mm Washer
18mm Stem Lgth.
2-8mm G.R.
Ford
Nissan 1980/on
OE: NA01-56145, 63844-01A00
718723 15

IMPORT

Front Bumper Cover Drive Type Retainer
9mm Hole
15mm Flange
12mm Stem Lgth.
5mm P.R.
Toyota Camry, Lexus 1992/on
OE: 90467-09145
720795 5

IMPORT

Rear Bumper Cover Drive Type Retainer
9mm Hole
19mm Flange
26mm Stem Lgth.
5.5mm P.R.
Lexus 1990/on
OE: 90467-09143
720794 5

IMPORT

Illustration Reduced

Front Bumper Cover Screw Type Retainer
9mm Hole
20mm Flange
26mm Stem Lgth.
6mm P.R.
Toyota Camry, Corolla, Avalon, Solara 1998/on
OE: 90467-09127
720629 5

IMPORT

Various Applications Screw Type Retainer Black Nylon
M6 Hole Size
20mm Washer Face
9mm Stem Lgth.
2-5mm G.R.
Isuzu, Mazda & Nissan
OE: 1395-68-676, 9926-50-635, 894-243-1900, 80915-29A66
718715 15

IMPORT

Air Scoop, Cowl Grille Vent Panel Screw Type Retainer
M6 Hole Size
18mm Washer
11mm Stem Lgth.
2-6mm G.R.
Honda Prelude 1983/on
OE: 90668-SB0-003
718712 10

IMPORT

Cowl Vent & Air Ducts Screw Type Retainer
M8 Hole Size
20mm Washer
9mm Stem Lgth.
2-5mm G.R.
Honda, Mazda & Nissan 1984/on
OE: 90675-SB3-003, FB01-56-964, 63876-95596
718722 10

GM

Door Trim Panel Push Type Retainer
M12mm Hole
21mm Washer Head Dia.
25mm Stem Lgth.
3mm Shoulder
GM 'U' Body & APV Van 1990/on
OE: 10140480, 6502625
720334 12

GM | Ford | IMPORT | U/M UNIVERSAL & MISCELLANEOUS

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RETAINERS & CLIPS

Illustrations are actual size unless otherwise noted.

Body Splash Shield Screw Type Retainer
M8 Hole Size
15mm Washer
2-10mm G.R.
GM 'W' Body
1987/on
OE: 10053182
718721 25

Front Bumper Cover Screw Type Rivet Plastic
M8 Hole
18mm Flange
18mm Stem Lgth.
2.4-9mm P.R.
Ford Escape 2001/on
OE: W706713-S300
723059 12

Screw Type Headlight Rivet, Splash Shield, Cowl Vent Plastic
M8 Hole, 18mm Flange
3-7mm P.R.
Ford Probe 1992-89
Escape 2001/on
& General Purpose
OE: BO92-51-833, W705845-S300
724117 12

Fender Splash Shield & Radiator Shield Screw Type Rivet Plastic
M6 Hole
16mm Flange
17.5mm Stem Lgth.
1.6-6mm P.R.
Ford Focus 2000/on
OE: YS4Z-16K262-AA
723047 12

Bumper Clip Push Type Retainer Black Nylon
Fits 8mm Hole
20mm Head Dia.
22mm Stem Lgth.
9mm P.R.
Nissan Maxima & Quest 1994/on
OE: 63878-01E10
723203 7

Radiator Grille to Headlamp Housing Screw Type Retainer
6.3mm Hole
17mm Flange
2.5-5mm P.R.
Olds. 'J' Body, Pontiac
1987/on
OE: 22538004
720025 25

Various Trim Attachments Screw Type Retainer
M6.3 Hole Size
25mm Washer Face
2.0-12mm G.R.
Ford Taurus & Mercury Sable 1987/on
OE: N804837-S
718717 25

Rocker & GarnishMoulding Pin Drive Rivet, Plastic, Twist to Release
M7 Hole
20mm Flange
8.5mm Stem Lgth.
5mm P.R.
Pontiac Vibe 2003/on
Toyota, Lexus 2000/on
OE: 88970494, 90467-07168
723317 7

Front Fender Liner & Mud Guard Drive Type Rivet Plastic,
M8 Hole
20mm Flange
9mm Stem Lgth.
1.5-5.0mm P.R.
Mazda 323, Protege, Miata & MPV 1995/on
OE: BC1D-56-145
723209 12

Fender Cross Panel to Fan Shroud Underhood Retainer
M6 Hole Size
19mm Washer
8mm G.R.
Ford Tempo, Mercury Topaz
1984/on
OE: N802737-S
718429 25

Various Fascia & Grille Attachment Screw Type Rivet, Black Plastic
M6 Square Hole
12mm Square Head
Ford Aerostar, Escort, Mercury Lynx 1985/on
GM 'S' Truck 1994/on
OE: N803494-S, 15679091
718718 25

Bumper Push Type Retainer Black Nylon & Santoprene Rubber
M8 Hole
18mm Head Dia.
18mm Stem Lgth.
Ford Taurus, Mercury Sable
2000/on
720916 12

Front Compartment Spare Tire Retainer Nylon
8mm Hole
17mm Head Dia.
18mm Stem Lgth.
GM Fiero 'P' Body
1984/on
Nissan
OE: 20451119, 63844-01A99
718672 25

Front & Rear Bumper Cover Screw Type Retainer
30 x 20mm Head Size
M10 Hole Size
11mm Stem Lgth.
2-7mm G.R.
Mercury Tracer
1987/on
Mazda, Kia
OE: E7GZ-17A904-B, BF67-50-033, MBF67-50-033
Illustration Reduced
718726 10

Rocker Panel, Wheel Liner & Air Inlet Duct Push-Type Retainer, Black Nylon
M8 Hole
15mm Head Dia.
20mm Stem Lgth.
GM Saturn 2 & 4 Door Models 1991/on
Ford
OE: 11561878, 21075686, F3LY-14570-B
724603 12

Front Bumper Push-Type Retainer w/Internal Metal Insert, Black Nylon
M10 Hole
20mm Head Dia.
13mm Stem Lgth.
Honda Civic
2006/on
OE: 91505-S9A-003
724604 5

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BODY PANEL MOULDING CLIPS and RETAINERS

QUICK REFERENCE SUB-INDEX J10 BODY CLIPS AND SMALL PARTS

PRODUCTS **PAGES**

BODY PANEL MOULDING CLIPS & RETAINERS

BODY PANEL MOULDING CLIPS and RETAINERS

DOOR CLIPS J10-30
ASSORTMENT J10-4

DOOR HINGE PINS & BUSHINGS J10-31

HOOD PROP CLIPS J10-32

NUTS & GROMMETS J10-32-34
ASSORTMENT J10-5

'U' & 'J' SPEEDNUTS J10-34-36
ASSORTMENTS J10-7-8

MISCELLANEOUS NUTS J10-36

MISCELLANEOUS CLIPS J10-37

FASTENERS & CLIPS J10-37

MISCELLANEOUS RETAINERS, CLIPS
and GROMMETS J10-37-38

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DOOR CLIPS

Illustrations are actual size unless otherwise noted.

Door Lock Rod End Clip
R.H. Style
GM
1986/on
OE: 20633148, 20582532

716647 25

Door Latch Locking Push Rod Clip
R.H. Style
5/32 Rod Size
Chrysler
1972/on
OE: 3454220

717707 25

Door Latch Locking Push Rod Clip
L.H. Style
5/32 Rod Size
Chrysler
1972/on
OE: 3454221

717708 25

Door Lock Rod End Clip
R.H. Style
Dodge Omni, Plymouth Horizon
1978
OE: 3760130

717709 25

Door Lock Rod End Clip
L.H. Style
Dodge Omni, Plymouth Horizon
1978
OE: 3760131

717710 25

Door Lock Rod Retaining Clip
R.H. Style
GM
1979/on
OE: 469718, 378668, 20158344

717716 25

Door Lock Rod End Clip
.186 Rod Dia.
Chevrolet Vans
1978/on
OE: 3081052, 469716

717713 25

Hood Prop Rod Clip
7/32" Rod Dia.
Various Ford Models
1991-75
OE: D5ZZ-16828A, B

717183 12

Door Lock Rod End Clip
5/32" Rod Dia.
Ford
1986/on
OE: 390523-S, E6AZ-5421952-A

716644 10

Door Lock Rod End Clip
.156 Rod Dia.
140 P. R.
GM Cars
1978/on
OE: 20008799

717714 25

Door Lock Rod End Clip
.156 Rod Dia.
80 P. R.
GM Cars
1978/on
OE: 20008798

717715 25

Door Lock Rod End Clip
Two Piece Fold Over
Ford & Mercury
1986/on
OE: E6DZ-5421952-A, E83Z-5421952-B

716643 5

Door Lock Rod Clip

GM Cars & Trucks
1996/on
OE: 16629990, 16675980

Illustration Reduced **721051** 10

Door Lock Rod Clip

Ford Contour, Taurus & Mercury Mystique & Sable
1996/on

Illustration Reduced **721049** 1

Front Door Clip
Outside Handle Spring
GM
1956/on
OE: 9711304, 321519BS, 12337868, 3998009

717718 25

Door Lock Clip
GM Cars
1955/on
Chev. GMC Trucks
1982/on
OE: 42344830, 12337868, 14051674

717719 25

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DOOR HINGE PINS & BUSHINGS

Illustrations are actual size unless otherwise noted.

Door Hinge Bushing
Sintered Bronze
5/16" I.D.
13/32" O.D.
9/32" HT.
Ford (rear door) 1992-79
GM 1932/on
GM 'C' & 'K' Truck 1993-73
OE: D1AZ-6522841A, 9721917

717166 25

Door Hinge Bushing
Sintered Bronze
5/16" I.D.
1/2" O.D.
23/64" HT.
GM (thick) 'A', 'B', 'C', 'F', 'J', 'X' & 'Y' Bodies
1968/on
OE: 20429500

717238 25

Door Hinge Bushing
Sintered Bronze
5/16" I.D.
31/64" O.D.
9/32" HT.
Ford (front door)
1973/on
OE: D90Z-6522841A

717387 25

Side Door Upper Hinge Bushing
Splined O.D.
11/32" I.D., 1/2" O.D.
23/64" HT.
43/64" Flange O.D.
GM Trucks 'C-K' Models
1988/on
OE: 12338074, 15691493, 15964971, 16632193

717363 12

Side Door Lower Hinge Bushing
Sintered Bronze
25/64" I.D.
17/32" O.D.
23/64" HT.
11/16" Flange O.D.
GM Trucks 'C-K' Models 1988/on
OE: 15562609, 15964972, 16632192

717364 12

Illustration Reduced

Door Hinge Pin
Zinc & Yellow
11/32" Dia.
4-5/32" Lgth.
15/32" Head Dia.
GM Astro Van, Safari Van & S-10
1982/on
OE: 12338015, 14066728

717256 5

Illustration Reduced

Door Pin
11/32" Dia.
5-1/4" Lgth.
GM 'C' & 'K' Trucks
1988/on
OE: 15591860, 15967691, 15691595, 88891731

717397 12

Illustration Reduced

Door Hinge Pin
11/32" Dia.
4-1/8" Lgth.
GM 'S' & 'T' Trucks
1994/on
OE: 15653790

720999 2

Illustration Reduced

Door Roller Pin Assembly
9/16" Dia.
5-1/2" Lgth.
3/4" Roller O.D.
5/8" Roller Groove Dia.
19/32" Knurl Dia.
GM 'C' & 'K' Light Duty Trucks 1988/on

720997 1

Illustration Reduced

Door Roller Pin Assembly
25/64" Dia.
5-1/16" Lgth.
3/4" Roller O.D.
5/8" Roller Groove Dia.
GM 'S' & 'T' Trucks
1994/on
OE: 15672183

720998 1

Illustration Reduced

Door Hinge Pin
Zinc Plated
11/32" Dia.
3-3/8" Lgth.
Ford Mustang
1993-79
Ford Tempo & Mercury
1994-90
Mercury Capri 1986-80
OE: D9ZZ-6643030-AA

721055 10

Door Hinge Spring
GM 'C' & 'K' Series Pick-Ups
2002-88

717461 1

ECONOMICALLY REPAIR WORN OUT DOOR HINGE PINS ON VEHICLES WITH WELDED HINGES WITHOUT REMOVING THE HINGE.

Illustration Reduced

Door Hinge Repair Kit

Contents:
2-Pins
2-Bushings
2-Lock Washers
2-Lock Nuts

GM Envoy, Rainier, Trailblazer
2002/on

OE: N/A

724481 1

GM Truck Door Hinge Pin & Bushing Repair Kit
Chevrolet Silverado, Suburban & Tahoe & GMC Sierra, Yukon & Yukon XL 2005-99

Why bother with the hassle of cutting and grinding off a worn door hinge and welding on a new one when you can repair the bad hinge in a fraction of the time? With our new Door Hinge Pin & Bushing Repair Kit, fixing sagging doors caused by worn hinges due to pin failure is quick. It's easy. It works. And you don't have to repaint the welded heat flash area. Each kit is designed to repair one hinge and contains two pins made of zinc plated machined cold rolled steel, two self-lubricating brass alloy bushings, two zinc plated nylon insert lock nuts and a zinc plated washer.

Here's how it works:
1. Remove the door from the truck body.
2. Remove the original equipment pin and bushings.
3. Install the bushings into the hinge holes.
4. Install the longer pin into the top hinge hole.
5. Thread on the lock nut.
6. Install the shorter pin into the bottom hinge hole.
7. Place the washer and a nut on the shorter pin.
8. Tighten the nut to pull the pin into place.
9. Slowly tighten both upper and lower lock nuts.
10. Reattach the door to the truck body.

Detailed instructions are included with the kit..

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723290 1

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HOOD PROP CLIPS and NUTS & GROMMETS

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HOOD PROP CLIPS

IMPORT

Hood Prop Rod Clip
8mm Rod Dia.
Honda Accord
1986/on
OE: 90677-SE0-003

717646 6

NUTS & GROMMETS

IMPORT

Grommet
4mm Screw Size
9.5 x 9.5mm
6mm Sq. Hole
Honda
OE: 34301-692A-0000

716870 10

IMPORT

Grommet
4mm Screw Size
9.5 x 9.5mm
7mm Sq. Hole
Honda, Mazda, Mitsubishi & Nissan
OE: 75522-611-0000, 9991-00-412, MS-480001, 97606-B0700

717611 25

IMPORT

Grommet
5mm Screw Size
12 x 12mm Head Dia.
8mm Sq. Hole
Mazda MX6
1988/on
OE: 9991-00-501

716792 25

GM

Side Marker, Headlamp & Header Panel Body Nut
#8 Screw Size
5/16" Round Hole
GM
1967/on
OE: 14013246

718604 25

IMPORT

Grommet
5mm Screw Size
13 x 13mm Head Dia.
8.5mm Sq. Hole
Honda, Mazda, Nissan & Toyota
OE: 75521-611-0000, 9991-00-601, 96706-P0105, 90189-06010

716790 10

IMPORT

Grommet
6mm Screw Size
13 x 15mm
8.5 x 10.5mm Hole
Honda
OE: 90656-671-6310M1

716798 10

U/M

Radiator Grille Nut
#8 Screw Size
1/4" Sq. Hole
AMC & Chrysler
General Purpose
OE: 8934-201-263, 6000943

717322 25

Ford

U/M

Side Mirror Nut
#8 or #10 Screw Size
1/4" Sq. Hole
Ford/Mercury
1966/on
General Purpose
OE: 379830-S

717149 25

IMPORT

Grommet
3mm Screw Size
9.5 x 9.5mm Head Dia.
7mm Sq. Hole
16mm Stem
Mazda & Nissan
OE: 9991-00-402, 96706-89901

716850 10

U/M

Grommet
#8 Screw Size
5/16" Sq. Hole
General Purpose

718682 100

GM IMPORT

Headlamp Bezel & Grille Nut
5mm Screw Size
12mm x 12mm
8 x 9mm Hole
Chevrolet Nova
1985/on
Mitsubishi & Toyota
OE: 94841764, MS-480002, 90189-05013

716793 25

IMPORT

Grommet w/Sealer
3mm Screw Size
11 x 14mm Head Dia.
7 x 10mm Hole
10mm Stem
Honda
OE: 90668-688-0030

716858 10

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NUTS & GROMMETS

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IMPORT

Grommet
5mm Screw Size
17 x 17mm
8 x 8.5mm Hole
Honda, Mazda & Nissan
OE: 90662-671-0030, 9991-00-503, 68425-H5000

716794 10

IMPORT

Grommet w/Sealer
3mm Screw Size
15 x 15mm Head Dia.
7mm Sq. Hole
Honda Accord 1982/on
OE: 90675-SA6-0030

716852 5

IMPORT

Grommet
3mm Screw Size
10 x 10mm Head Dia.
7mm Sq. Hole
Toyota
OE: 90189-04007

716867 10

Ford

Headlamp Mounting at Grille Opening Grommet Plastic
M4.2 Screw
10 x 13.5mm Hole
20mm Sq. Flange
Ford Focus 2000/on
OE: YS4Z-13N129-AA

723049 7

IMPORT

Grommet
4mm Screw Size
13mm Head Dia.
7mm Hole
Mazda
OE: 9991-00-403

716839 10

IMPORT

Grommet
5mm Screw Size
13mm Head Dia.
8mm Sq. Hole
Nissan
OE: 01281-00022

716795 25

IMPORT

Grommet
3mm Screw Size
7mm Sq. Hole
14mm Head Dia.
10mm Stem
Honda Accord 1982/on
Toyota
OE: 90662-693-003, 90189-04066

716855 10

IMPORT

Bumper Fender & Lamp Mounting Grommet, Plastic
M4.2 (#8) Screw
M8.5 Sq. Hole
16mm Flange
11mm O/L, 1.5mm P.R.
Nissan 240SX, Altima, Frontier, Maxima, Pathfinder, Quest & Xterra 1988/on
Infiniti G20, I30/35 & QX4 1991/on
OE: 01281-00831

724030 12

IMPORT

Front Bumper Grommet Plastic
M9.5 Sq. Hole
14mm Flange
0.7-2.5mm P.R.
Volvo 740, 850, 940, 960, C70, S70, V70, S90 & V90 1988/on
OE: 1318908-9

723155 12

U/M

Headlamp Bezel Nut
#8 or #10 Screw Size
1/4" Sq. Hole
Chrysler General Purpose
OE: 2524525

717167 25

IMPORT

Bumper Grommet Black Nylon
#10 Screw Size
Acura 2.2CL, 2.3CL, 2.5TL, 3.2TL, 3.5RL
Honda Accord & Prelude 1996/on
OE: 90107-SX0-003

720982 10

Tail Light Housing Grommet Black Nylon
12mm Hole
16mm Head Dia.
10mm Stem Lgth.
Dodge Dakota & Ram Trucks 1997/on
OE: 6504072

720981 12

IMPORT

Front Bumper Nut Natural Nylon
M5.5 (#12) Screw Size
16mm Head Dia.
11mm Stem Lgth.
Nissan Frontier Truck 1997/on
OE: 62319-0W000

723096 5

IMPORT

Grommet
4mm Screw Size
8mm Sq. Hole
16mm Head Dia.
17mm Stem
Mitsubishi & Toyota 1978/on
Honda, Nissan & Mazda
OE: 74798-S9000, 90661-SC7-003, H001-50-841, MS480-012, 01651-00481, 90189-06042

Illustration Reduced **716857** 10

IMPORT

Grommet
4mm Screw Size
6mm Sq. Hole
13.5mm Head Dia.
16mm Stem
Honda, Mitsubishi, Nissan & Subaru
OE:90672-671-811,MB106212, 01281-00151, 01281-00161, 96706-H9400, 96706-K1300, 96706-K1351, 790184000

716848 10

IMPORT

Splash Shield Screw Grommet, Black Nylon
#12 Screw Size
18 x 20mm Head Dia.
15mm Stem Lgth.
Mazda 626 1998/on
OE: KA78-50-AF4

720989 10

IMPORT

Fender Lining Screw Grommet, Natural Nylon
#12 Screw Size
9mm Sq. Hole
18mm Head Dia.
15mm Stem Lgth.
Toyota Avalon, Camry, Sienna, Lexus IS300 1997/on
OE: 90189-06104

720985 10

IMPORT

Grommet
5mm Screw Size
8.5mm Sq. Hole
18mm Head Dia.
17mm Stem
Nissan 1986/on
Mitsubishi & Toyota
OE: 01281-00028, MB-098145, 90189-06001

716864 10

IMPORT

Fender Shield Clip
M6.3 Screw Size
8mm Hole
20mm Head Dia.
17mm Stem
Toyota Camry, RAV4 1999-95
Lexus, Nissan
OE: 90189-06013, 90189-06065, 96706-W1000

716846 10

IMPORT

Grommet
M6.3 Screw Size
8mm Sq. Hole
18mm Head Dia.
21mm Stem
Toyota
OE: 90189-06003

716845 10

GM | Ford | Chrysler | Import | U/M UNIVERSAL & MISCELLANEOUS

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NUTS & GROMMETS and EXTRUDED 'U' & 'J' SPEEDNUTS

Illustrations are actual size unless otherwise noted.

NUTS & GROMMETS

IMPORT

Fender Liner Screw Grommet Black Nylon
#12 Screw Size
16mm Head Dia.
18mm Stem Lgth.
Toyota Tundra Pickup, Sienna, Tacoma 1999/on
OE: 90189-06214
720987 10

GM IMPORT

Wheel Apron Retainer
8mm Hole
20mm O/L, 2-3mm P.R.
16mm Sq. Flange
Chevy Nova, Geo Prism, Pont. Vibe 1985/on
Toyota Tacoma, T100 & 4-Runner 1992/on
OE: 94854203, 90189-06028
720630 7

IMPORT

Fender Lining Screw Grommet, Black Nylon
#12 Screw Size
8 x 8mm Hole
20mm Head Dia.
22mm Stem Lgth.
Toyota Solara, Avalon, Camry, RAV4, Tacoma 1995/on
OE: 90189-06157
720986 10

IMPORT

Tail Lamp Retaining Grommet
5mm Screw Size
8 x 12mm Hole
14 x 19mm Head Dia.
Mazda RX7 1979/on
716844 5

IMPORT

Cowl Screw Grommet
4.8mm (#10) Screw Size
10 x 15mm Hole
Toyota Corolla 1997/on
OE: 55799-12010
720938 10

IMPORT

Cowl Vent Grommet Plastic w/Seal
M8 Sq. Hole
13mm Flange
13mm Stem Lgth.
13 x 13mm Head Size
14mm O/L
1mm P.R.
Nissan & Infiniti 1997/on
OE: 80874-0P000
723385 7

IMPORT

Grommet
5mm Screw Size
8 x 15mm Hole
12 x 19mm Head Dia.
17mm Stem
Honda & Nissan
OE: 78856-R4301, 90683-693-0000
716856 10

EXTRUDED 'U' & 'J' SPEEDNUTS

GM

Front End Sheet Metal Extruded Nut Long Throat, Phosphate
Screw Size: M5-.8
P.R.: .6-3.8mm
Ctr. Hole to Edge: 16.5mm
GM 1977/on
OE: 11500657
720316 25

IMPORT

Fender Wheel & General Usage Extruded 'U' Nut Black Nylon
5mm Screw Size
15mm Depth
Nissan & Toyota
716818 10

GM

Speednut Zinc Organic
M6-1.0 Screw Size
2-5mm (.079-.197") P.R.
14mm (9/16") Ctr. of Hole to Edge
GM 2002-96
OE: 11516372
723204 12

Ford GM U/M

Fender, Shroud & Radiator Extruded Nut, Locking Type Short Throat
6mm x 1.0 Thread Pitch
Ford & GM 1979/on
General Purpose
OE: 11503716, 11503719, N800854-S
Illustration Reduced
717261 25

GM U/M

Fender, Shroud & Radiator Extruded Nut, Long Throat
M6-1.0 Screw Size
.34-4.0mm P.R.
19.5mm Ctr. of Hole to Edge
GM General Purpose
OE: 11503715,11508241
Illustration Reduced
717262 25

GM U/M

Fender & Front End Sheet Metal Extruded 'U' Nut
6mm
0.8-1.6mm P.R.
GM General Purpose
OE: 14044215
Illustration Reduced
718670 25

GM U/M

Extruded Nut Short Throat
6.3mm
.80-4.00mm P.R.
13.5mm Ctr. of Hole to Edge
GM General Purpose
OE: 11502785, 11503685, 11504035
717266 25

GM U/M

Extruded 'U' Nut Short Throat
6.3mm
GM 1976/on
General Purpose
OE:11500658
717481 25

GM | Ford | Chrysler | Import | U/M UNIVERSAL & MISCELLANEOUS

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EXTRUDED ‘U’ & ‘J’ and ‘U’ & ‘J’ SPEEDNUTS

Illustrations are actual size unless otherwise noted.

EXTRUDED ‘U’ & ‘J’ SPEEDNUTS

Extruded ‘U’ Nut
8mm Screw Size
1-1.8mm P.R.
14mm Depth
GM
General Purpose
OE: 20490398

716822 25

Extruded Nut
Short Throat
M8-1.25 Screw Size
14.5mm Ctr. of Hole to Edge
GM 1977/on
Ford, General Purpose
OE: 11500660, 11502617, N623333-S2, 6101283

717271 25

Extruded ‘U’ Nut
Long Throat
8mm
.80-4.50mm P.R.
20mm Ctr. of Hole to Edge
GM 1977/on
General Purpose
OE: 11500661, 11503317, 11516150, N623343-S2, S100

717482 12

Extruded Nut
Short Throat
M10-1.50 Screw Size
1.0-6.0 P.R.
19mm Ctr. of Hole to Edge
GM
1977/on
General Purpose
OE: 11500662, 11503564, 22521616

Illustration Reduced **717274** 25

Bumper Extruded ‘U’ Nut
M10-1.50 Screw Size
1.0-6.0 P.R.
19mm Ctr. of Hole to Edge
GM
1977/on
General Purpose
OE: 11500662, 11503564, 22521616

Illustration Reduced **717483** 12

Extruded ‘U’ Nut Non-Locking
Black Finish
6mm x 1.0
.010-.165 P.R.
17/32” Ctr. of Hole to Edge
GM
OE: 11503957

718261 25

Wide Range Extruded Nut
Short Throat
1/4”-20
.025-.150 P.R.
17/32” Ctr. of Hole to Edge
GM
General Purpose
OE: 1480627, 1494252

720237 12

Extruded ‘U’ Nut
Phosphate
M6-1.0 Screw Size
.80mm-4.00mm P.R.
17/32” Ctr. of Hole to Edge
GM
Ford
OE: 1016937, N623332-S2, S53, S100

724602 12

‘U’ & ‘J’ SPEEDNUTS

Coolant Recovery Tank Wide Range ‘U’ Nut
#10-#16 Screw Size
.100-.250 P.R.
Pontiac 1975-71
General Purpose
OE: 9433056

720223 50

‘U’ Speednut
#14 Screw Size
17/32” P.R.
General Purpose

511120 100

‘U’ Speednut
2.9mm Screw Size
6mm Depth
.5-1.5mm P.R.
BMW
General Purpose
OE: 0712-9-925-706

716802 25

‘U’ Speednut
4.2mm Screw Size
7mm Depth
.7-1.6mm P.R.
VW
General Purpose
OE: N15.422.2

716803 25

‘U’ Speednut
4.2mm Screw Size
7mm Depth
3-4mm P.R.
BMW & Mercedes
General Purpose
OE: 0712-9-925-708, 000-904-24-45

716804 25

‘U’ Speednut
Dichromate Yellow
4.2mm Screw Size
7.5mm Depth
.5-1.7mm P.R.
Mercedes
General Purpose
OE: 000-994-04-45

716805 25

‘U’ Speednut
Dichromate Yellow
4.2mm Screw Size
8mm Depth
Toyota
General Purpose

716806 25

‘U’ Speednut
4.2mm Screw Size
9mm Depth
GM
General Purpose
OE: 14015876

716820 25

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'U' & 'J' SPEEDNUTS and MISCELLANEOUS NUTS

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'U' & 'J' SPEEDNUTS

IMPORT U/M

'U' Speednut
4.8mm Screw Size
.8-1.7mm P.R.
12mm Depth
11mm Ctr. of Hole to Edge
BMW & Mercedes General Purpose
OE: 0711-9-916-945, 000-994-14-45
716807 25

IMPORT U/M

'U' Speednut
4.8mm Screw Size
9mm Depth
VW General Purpose
716808 25

IMPORT U/M

'U' Speednut
4.8mm Screw Size
12.5mm Depth
.5-1.7mm P.R.
7mm Ctr. of Hole to Edge
BMW & Mercedes General Purpose
OE: 0712-9-925-737, 000-994-06-45
716809 25

IMPORT U/M

'U' Speednut
5.6mm Screw Size
10mm Depth
1.2-2.0mm P.R.
BMW General Purpose
OE: 0712-9-925-720
716810 25

IMPORT U/M

'U' Speednut
6.3mm Screw Size
13mm Depth
.7-1.5mm P.R.
Mercedes, Opel & Volvo General Purpose
OE: 20-72-175, 000-994-09-45, 946-418
Illustration Reduced
716811 25

GM U/M

'U' Speednut
6.3mm Screw Size
14mm Depth
GM General Purpose
OE: 11508248
716819 25

IMPORT

'U' Speednut
Zinc & Yellow
M4.2 (#8) Screw Size
P.R.: .5-2.5mm
Center of Hole to Edge: 14mm
Mercedes
OE: 123-994-08-45
724094 12

IMPORT U/M

'U' Speednut
6.5mm Screw Size
13mm Depth
.7-1.5mm P.R.
Mercedes, VW, BMW & Volvo General Purpose
OE: 20-72-175, 000-994-50-45, 0712-9-925-730, N15.456.1
716812 25

GM U/M

'U' Nut
#8-18 Screw Size
.025-.150 P.R.
GM exc. Cadillac 1975-71
General Purpose
OE: 9431530
720216 50

Ford GM U/M

Front Fender Bumper Filler Wide Range 'U' Nut
#8-18 Screw Size
.025-.150 P.R.
Chev. & Pontiac 'X' Bodies 1975-71
Ford General Purpose
OE: 9433155, 11504531, 381863-S2
720217 50

GM U/M

Wide Range 'U' Speednut
#8-18 Screw Size
.125-.250 P.R.
3/8" Ctr. of Hole to Edge
GM General Purpose
OE: 9433156
720218 50

MISCELLANEOUS NUTS

U/M

Nut w/Free Spinning Washer
Black Finish
M6-1.0mm
24mm Loose Washer
10mm A/F
Grade 9
General Purpose
723157 25

GM

Bumper Strip Push Nut
8mm Bolt
25mm O.D.
GM
1978/on
OE: 10009923
503157 50

GM U/M

Bumper Bar Bolt Push Nut
10mm Bolt
24mm O.D.
GM 'S' & 'T' Trucks
1995/on
General Purpose
OE: 11501849
503158 50

GM

Bumper Rub Strip Push Nut
14mm Bolt
25mm O.D.
GM
1981/on
OE: 11504119
503159 50

Ford

Rear Splash Shield Push Nut
For Plastic Studs
Zinc Finish
M4.5 Stud Size
22mm O.D.
Ford Focus 2000/on
OE: W703505-S301
Use With Part No. 720949
723048 12

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MISCELLANEOUS CLIPS, FASTENERS and RETAINERS

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GM

W/S Garnish, Interior Trim Panels, Bezels & Scuff Plates Clip

GM Cars, Lt. Duty Trucks & Hummer 2002/on

OE: 11588650

724232 — 6

GM

Wire Loom Routing Clip

Gray Nylon

6.3mm Hole
10mm Loom I.D.
13mm Loom O.D.
20mm Stem Lgth.

GM

OE: 12160858

Illustration Reduced

723304 — 7

GM

Interior Door Opening Trim & Scuff Plate Retainer

Yellow Finish

1/2 x 1/2 x 5/8"

GM 'U' & 'W' Bodies 1992/on
Buick Rendevous, Chevy Trailblazer, Hummer H2 2002/on

OE: 15748479

723029 — 12

Grille to Fascia Retainer

Dodge Caravan & Plymouth Voyager, Town & Country 1997/on

OE: 4676356

720523 — 7

GM

Bumper Impact Strip Fascia Retainer

1/4 Stud Size"

GM 'B' Bodies 1982/on

OE: 10018611

716861 — 25

IMPORT

Body Side Moulding Clip

White Nylon

6.5 x 13 x 18mm Head Size
12mm Stem Lgth.

Honda Civic, CRV, Odyssey & Pilot 2006-1999

OE: 75305-S0A-003

724147 — 5

GM

Rocker Panel Moulding Clip

White Nylon

7/16" Hole, 9/16" Stem Lgth.
9/16 x 13/16" Top Head Size
13/16 x 13/16" Btm. Head Size

Chevrolet Avalanche 2002/on

OE: 11518357

723300 — 7

GM

Rocker Panel Moulding Clip

7/16" Hole
11/16 x 1-1/2" Top Head Size
7/8 x 1-9/16" Btm. Head Size
1-1/4" Stem Lgth.

Chevrolet Impala, Lumina & Monte Carlo 2000/on

OE: 10431761

Illustration Reduced

720943 — 10

U/M

Hog Ring Piers

Straight Nose Spring Grip, holds rings in place for fast work.

Universal

Illustration Reduced

724120 — 1

U/M

Hog Rings

To attach seat covers to cushions and seat bottoms, also cushion spring clips.

14 ga.
3/8" Opening
Medium .080" Wire Dia.
Universal

724118 — 500

U/M

Hog Rings

To attach seat covers to cushions and seat bottoms, also cushion spring clips.

13 ga.
7/8" Opening
Large .088" Wire Dia.
Universal

724119 — 500

U/M

T-Bolt Clip

10-24 x 3/4" Bolt

1/2 x 1-7/16" Plate
Universal

516264 — 25

GM U/M

T-Bolt Clip

10-24 x 3/4" Bolt
5/8 x 1-7/8" Plate

Chry. & GM Uni.

OE: 37 44999, 1758099, 6000720, 6010046

516259 — 25

GM

Taillight Lens Drive Rivet Retainer

Stainless Steel Capped

M5 Hole Size
7mm Washer Face
9mm Chrome Cap

Buick & Pontiac 1980/on

OE: 16500283

718647 — 25

IMPORT

Bumper & Grille Mounting Retainer

13.1 x 29.7mm

Hyundai Accent, Santa Fe & Sonata 1995/on

OE: 86593-24000

724197 — 12

IMPORT

Hood Insulation Retaining Clip

7mm Stem Dia.
9mm Lgth.
38mm O.D.

Nissan 1981/on

OE: 65832-F5000, 65846-30F00

716326 — 15

GM

Side & Rear Door Panel Clip

GM Astro & Safari Mini Vans 1985/on

OE: 15588024, 15596301

716301 — 25

GM

Door Trim Panel Clip

GM 1983/on

OE: 10073833, 15600382, 20421800

718657 — 25

Door & Interior Trim Panel Clip

Chrysler 1986-81

OE: 6032235

718228 — 25

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MISCELLANEOUS RETAINERS, CLIPS and GROMMETS

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MISCELLANEOUS RETAINERS & CLIPS

Anti-Rattle Foam Wedge Retainer
Ford/Lincoln/ Mercury
1986-75
OE: 383035-S100

717215 25

Door Trim Panel Clip
Ford
1968
OE: 383033-S101

717216 25

Side Door Panel Retainer
White Grommet & Yellow Pin
Plastic
M9.5 Hole, 21mm O/L
15mm Upper Head
.85-1.5mm P.R.
2.5mm Trim Thickness
Chrysler Mini Vans
2001/on
OE: 6505918AA

723213 12

Door Panel Retainer
White Grommet & Gray Pin
Plastic
M9.5 Hole, 26mm O/L
15mm Upper Head
2.1-3.1mm P.R.
2.6mm Trim Thickness
Chrysler Mini Vans
& GM 2001/on
OE: 6505759AA, 20003056

723212 12

Door Trim Panel Retainer
Gray & White Nylon
15mm Top Head Dia.
18mm Mdl. Head Dia.
20mm Btm. Head Dia.
9mm Stem Dia.
18mm Stem Lgth.
Chrysler Vans
2001/on

723231 12

Trim Panel Retainer
White Nylon
13mm Top Head Dia.
16mm Mdl. Head Dia.
18mm Btm. Head Dia.
8.5mm Stem Dia.
15mm Stem Lgth.
20mm O/L
Toyota RAV 4 &
Tundra 2000/on
OE: 90467-09206

723250 7

GROMMETS

Bumper Cover & Garnish Moulding Grommet
Rubber w/Seal
M9 Hole, 21.5mm O/L
15.5mm Flange
Chry. Sebring,
Dodge Stratus,
Mitsubishi Eclipse
2000/on
OE: MR478263
Use With Part No.723207

723206 7

UNIVERSAL & MISCELLANEOUS

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QUICK REFERENCE SUB-INDEX J10 BODY CLIPS AND SMALL PARTS

AUTOBODY FASTENERS

PRODUCTS	PAGES
BOLTS	
BODY BOLTS	J10-47-48
BUMPER BOLTS	J10-48
FLANGE BOLTS	J10-47
LICENSE PLATE BOLTS	J10-41-44
MACHINE SCREW BOLTS	J10-47
ASSORTMENTS	**J10-5-6**
NUTS	
CAGE NUTS	J10-50
EXPANSION NUTS	J10-51-52
HEX NUTS	
FLANGE	J10-49
FREE SPINNING	J10-49
LOCK	J10-49
WASHER	J10-49
LICENSE PLATE NUTS	J10-41-42
MANIFOLD NUTS	J10-49
PAL NUTS	J10-50-51
PUSH NUTS	J10-51
SPEED NUTS	J10-50
THREAD CUTTING NUTS	J10-50
WELL NUTS	J10-51
ASSORTMENTS	**J10-5-8, 10-11, 13**
SCREWS	
HEX HEAD SCREWS	J10-43-46
LICENSE PLATE SCREWS	J10-41-43
MACHINE SCREWS	J10-42
TAPPING SCREWS	J10-43-45
TRIM SCREWS	J10-46
MISCELLANEOUS SCREWS	J10-44
ASSORTMENTS	**J10-6, 8**
THREAD REPAIR	
CLINCH-NUTS®	J10-52
MANDREL AND NOSEPEICES	J10-53
RIVET-NUT BLIND THREADED RIVETS	J10-53
ASSORTMENTS	**J10-8**
WASHERS	
FENDER WASHERS	J10-49
FINISHING WASHERS	J10-49
ASSORTMENTS	**J10-8, 9**
MISCELLANEOUS	
CLIPS & NUTS	J10-40
GROMMETS	J10-41
SHEET METAL PLUGS	J10-41
SHIMS	J10-40
ASSORTMENTS	**J10-4**

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CLIPS, NUTS and SHIMS

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CLIPS & NUTS

GM

Rocker Moulding Clip
Plastic
9 x 14mm Hole

Cadillac Seville & DeVille 1998/on
OE: 25648693

723017 5

GM

Rocker Moulding Clip
Plastic
GM 'C', 'H' & 'K' Bodies 2000/on

OE: 25691949, 25704001

Illustration Reduced

723180 5

Front Bumper Cover Nut, Snap In Style
Black Zinc Organic
M4.8 (#10) Screw
12mm Sq. Hole

Chrysler Mini Van 2002/on
Pacifica 2004
OE: 6506109AA

723337 12

SHIMS

U/M

Body Alignment Shim
1/8" Thickness
Universal

52304 25

U/M

Hood Alignment Shim
1/16" Thickness
Universal

52309 25

U/M

Hood Alignment Shim
1/8" Thickness
Universal

52310 25

U/M

Body Alignment Shim
1/8" Thickness
Universal

52311 25

U/M

Body Shim
3/8" Slot
15/16" O.D.
1/16" Thickness
Universal
723270

Body Shim
3/8" Slot
15/16" O.D.
1/8" Thickness
Universal

723271 25

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RUBBER GROMMETS, SNAP-IN SHEET METAL PLUGS and LICENSE PLATE BOLTS, SCREWS & NUTS

Illustrations are actual size unless otherwise noted.

U/M

Grommet
Rubber
3/16" I.D.
5/16" O.D.
1/16" Groove Width
Universal

717110 10

U/M

Grommet
Rubber
1/4" I.D.
3/8" O.D.
1/16" Groove Width
Universal

717111 10

U/M

Grommet
Rubber
5/16" I.D.
7/16" O.D.
1/16" Groove Width
Universal

717112 10

U/M

Grommet
Rubber
3/8" I.D.
5/8" O.D.
1/16" Groove Width
Universal

717113 10

U/M

Grommet
Rubber
1/2" I.D.
3/4" O.D.
1/8" Groove Width
Universal

717114 10

U/M

Grommet
Rubber
5/8" I.D.
7/8" O.D.
1/8" Groove Width
Universal

717115 10

U/M

Snap-In Sheet Metal Plug
3/8" Hole Size
Plugs Holes in Auto. Bodies
Universal

717241 100

U/M

Snap-In Sheet Metal Plug
1/2" Hole Size
Plugs Holes in Auto. Bodies
Universal

717242 100

U/M

Snap-In Sheet Metal Plug
3/4"
Hole Size
Plugs
Holes in Auto. Bodies
Universal

717243 100

U/M

Snap-In Sheet Metal Plug
7/8"
Hole Size
Plugs
Holes in Auto. Bodies
Universal

717244 100

U/M

Snap-In Sheet Metal Plug
1" Hole Size
Plugs
Holes in Auto. Bodies
Universal

717245 100

LICENSE PLATE BOLTS, SCREWS & NUTS

U/M

License Plate Bolt w/Nut
Slotted Washer Head
1/4 x 5/8"
Universal

702551 100

U/M

License Plate Screw w/Nut
Nylon Slotted Washer Head w/Nylon Nut
1/4 x 5/8"
Universal

702567 25

GM

License Plate Screw w/Nut
Slotted Washer Head
Self-Tapping Screw w/Nylon Nut
#10 x 5/8"
1/4"
Sq. Hole
GM
OE: 3783006

702555 100

Ford U/M

License Plate Screw & Nut Kit
Slotted Hex Washer Head
#14 x 3/4" Screw
#14 Nut
3/8" Sq. Hole
9/32" Flange
Ford
Universal

Illustration Reduced **718913** 25

GM U/M

License Plate Screw & Nut Kit
Slotted Hex Washer Head
#14 x 3/4" Screw
#14 Nut
3/8" Sq. Hole
5/8" Flange
GM
Universal

Illustration Reduced **718914** 25

GM

License Plate Nut
Nylon 4-Prong Push-In
1/4" or 6mm
3/8" or 9mm
Sq. Hole
GM
OE: 3907444, 4755299

702559 100

Ford

License Plate Nut
Nylon
#10 or 4.2mm
1/4" or 6mm
Sq. Hole
Ford 1976-73
OE: 380707-S

702563 25

License Plate Nut
Nylon
#12 Screw
Chrysler
OE: 6032516

716635 12

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LICENSE PLATE BOLTS, SCREWS & NUTS

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Door Lock Remote Control Switch Bracket License Plate Nut, Nylon
#14 (1/4") Screw
3/8 x 3/8" Hole
Chrysler
1984/on
Mitsubishi Eclipse
OE: 6027958
720556 12

Illustration Reduced

Front & Rear License Plate Nut
Nylon
#14 Screw
3/8" Sq. Hole
Ford & Mercury
1965/on
Universal
718903 50

Illustration Reduced

License Plate Nut
#6 Screw
AMC,
Oldsmobile
& Mitsubishi
Universal
OE: MS 480001,
380382, 400141
718899 50

Dealer License Plate Thumb Screw
#14 x 1/2"
1-1/8" O/L
Universal
702549 25

License Plate Screw
Slotted Pan Head
Black Nylon
M6-1.00 x 16mm
Universal
723392 50

License Plate Screw
Phillips Truss Head
Zinc
#14 x 3/4"
Universal
702560 100

Sheet Metal/License Plate Screw
Slotted Truss Head
#14 x 3/4"
Universal
505172 12

Rear License Plate Attaching Screw
Phillips Washer Head
Dichromate
6mm-1.0 x 20mm
Universal
702566 25

Machine/License Plate Screw
Slotted Pan Head
Zinc
6mm-1.0 x 25mm
Universal
532069 100

Machine/License Plate Screw
Phillips
Truss Head
Steel
1/4-20 x 3/4"
Universal
405384 25

License Plate Screw
Combo Phillips/Slotted Pan
Head Type 'B'
Sheet Metal Screw
Silver Organic
Dacromet
1/4-14 x 5/8"
GM Cars & Trucks
1965/on
OE: 9423101
723028 25

License Plate Screw
Slotted
Truss Head
Type 'B' w/Dog
Point, Zinc
1/4 x 5/8"
Universal
718911 50

License Plate Screw
Slotted Washer Head
Zinc
#14 (1/4") x 5/8"
5/8" Washer Head
5/16" Hex
Ford
Universal
OE: N800369
716633 25

License Plate Screw
Indented Slotted Hex
Washer Head
Black Phosphate
1/4-14 x 5/8"
5/8" Washer Dia.
5/16" Hex A/F
Ford
Universal
OE: N800369-S2
718907 25

License Plate Screw
Indented Slotted Hex
Washer Head
Black Zinc
1/4-14 x 5/8"
5/8" Washer Dia.
5/16" A/F
Ford
Universal
723306 50

GM | Ford | IMPORT | U/M UNIVERSAL & MISCELLANEOUS

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HEX HEAD SCREWS

Illustrations are actual size unless otherwise noted.

GM U/M

Thread Cutting Screw
Indented Hex Washer Head
w/Type 'B' Point
Black Phosphate
4.2mm-1.41 x 13mm
9mm Flange
7mm A/F
GM
Universal
OE: 11505045

718942 50

GM U/M

Sheet Metal Screw
Indented Hex Head
w/Attached Washer
Black
4.2mm-1.41 x 20mm
16mm Attached Washer
GM Cars
Universal
OE: 11502449

717450 25

GM U/M

Tapping Screw
Indented Hex Head
w/Type 'AB' Point &
Free Spinning Washer
Black Phosphate
4.2mm x 20mm
20mm Washer
7mm A/F
GM, Universal
OE: 14090382

718932 25

GM U/M

Tapping Screw
Indented Hex Head
w/Attached Washer
Black
4.2mm x 20mm
12mm Attached Washer
7mm Hex
GM
Universal
OE: 11500434, 11503892

717451 25

U/M

Tapping Screw
Indented Hex Head
w/Type 'AB'
Point & Free
Spinning Washer
Black
4.2mm-1.41 x 20mm
17mm Free Spinning
Washer; 6mm A/F
Universal

718933 25

IMPORT U/M

Indented Hex Head Screw
w/Type 'AB' Point
& SEMS Washer
Black
M4.8-1.61 x 16mm
15mm Washer
8mm A/F
Imports
Universal

724033 50

IMPORT U/M

Indented Hex Head Screw
w/Type 'AB' Point
& SEMS Washer
Black
M4.8-1.61 x 19mm
15mm Washer
8mm A/F
Imports
Universal

724034 50

IMPORT

Tapping Screw
Indented Hex
Washer Head
w/Type 'B' Point
Dichromate Yellow
4.8mm-1.61 x 25mm
15mm Washer
8mm A/F
Mercedes
OE: 914031-00-4305

718952 25

IMPORT U/M

SEMS Body Bolt
Hex Head
Zinc & Yellow
M6-1.0 x 12mm
10mm Hex
12.5mm Washer O.D.
Class 8.8
Imports
Universal

723246 25

U/M

License Plate
Screw, Indented Hex
Phillips Washer Head
w/Type 'AB' Point
Zinc Dichromate
6 x 16mm
12mm Flange
10mm A/F
Universal

718909 25

IMPORT U/M

SEMS Body Bolt
Hex Head
Zinc & Yellow
M6-1.0 x 20mm
10mm Hex
12.5mm Washer O.D.
Class 8.8
Imports
Universal

723249 25

GM

Bolt w/Starter Point
Indented Hex Washer Head
Black Phosphate
M6-1.0 x 20mm
13mm Washer
10mm A/F
Grade 9.8
GM
OE: 11503800

723276 25

IMPORT

License Plate Screw
Indented Hex Phillips
Washer Head w/Type
'AB' Point, Gold
6 x 20mm, 10mm A/F
12mm Flange
Honda 1990/on
Toyota & Geo Prizm
91500-SM4-999AH,
93904-46320

718910 25

Ford

License Plate Bolt
Indented Hex Head
w/Loose Washer
White
M6-1.0 x 27mm
19mm Loose Washer
Ford Escort, Mercury
Lynx 1981/on
OE: N606676-S53B

702565 25

GM IMPORT U/M

Tapping Screw
Indented Hex Washer Head
w/Type 'AB' Point
& SEMS Washer
Black Phosphate
M6.3-1.81 x 20mm
17mm SEMS Washer
10mm A/F
GM, European, Universal
OE: 11505022

723356 50

GM IMPORT U/M

Tapping Screw
Indented Hex Head w/Type 'AB'
Point & SEMS Washer
Black Phosphate
M6.3-1.81 x 25mm
17mm SEMS Washer
10mm A/F
GM, European, Universal
OE: 11500996, 11505023

723355 50

GM | Ford | | | IMPORT | U/M UNIVERSAL & MISCELLANEOUS

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MISCELLANEOUS SCREWS

Illustrations are actual size unless otherwise noted.

MISCELLANEOUS SCREWS

U/M

Sheet Metal Tapping Screw
Indented Hex Large Round Phillips Washer Head w/Type 'B' Point
#8-18 x 5/8"
Universal

718849 50

GM U/M

Trim Screw
Phillips Flat Head w/Sealer Chrome
#8-18 x 1/2"
#6 Head
GM
Universal
OE: 9428196

716224 50

GM U/M

Reveal Moulding to Panel Trim Screw, Phillips Washer Head w/Teks Point Zinc
#8 x 1/2"
7/16" Washer Head
GM
Universal
OE: 1689827

717182 200

GM

Quarter Wheel House Moulding or Guard Trim Screw
Phillips Round Washer Head Chrome
#8-18 x 1/2"
GM
1963/on
OE: 588546

717103 200

U/M

Sheet Metal/License Plate Screw
Slotted Hex Washer Head Lusterplated
#14 x 3/4"
Universal

505823 100

GM U/M

Tapping Screw
Phillips Pan Head w/Type 'AB' Point & Free Spinning Washer Black Phosphate
4.2-1.41 x 15mm
12mm Free Spinning Washer
GM, Universal
OE: 11503499

718959 50

Ford

SEMS
Phillips Pan Head Phosphate
M4.2-1.41 x 20mm
(#8 x 25/32")
16mm (5/8")
Washer O.D.
Ford
OE: N801603-S2

723294 25

IMPORT U/M

Splash Shield Sheet Metal Screw
Phillips Truss Head SEMS Black E-Coat
M4.8-1.6 x 19mm
16mm Washer O.D.
Honda Accord, Civic & Prelude 1986/on
Universal
OE: 90114-SE0-000

723088 12

GM U/M

Screw, License Plate
Silver Dacromet
Phillips/Slotted Combo Truss Head, AB Pointe
M6.3-1.81 (1/4-14)
x 20mm (25/32")
GM
2002/on
General Purpose
OE: 25732397

724146 25

GM

Attaches Foam to Bumper Fascia Screw
Square Drive Truss Head, Black Plastic
7.5 x 34.5mm
22mm Head Dia.
4 x 9mm Shoulder
Chrysler 1993/on
GM 1997/on
OE: 6503401, 6503819, 25631448

Illustration Reduced

720754 7

GM

Tapping Screw
Black Oxide
Phillips Washer Head
M4.2-1.41 x 20mm
(#8 x 25/32")
11mm (7/16")
Washer O.D.
GM
OE: 11501884

724600 25

IMPORT

Trim Screw
Black Phosphate
Phillips Truss Head
M6.3-1.81 x 16mm
(#14 x 5/8")
15mm (19/32")
Head O.D.
Japanese Imports

724601 25

IMPORT

Bumper Screw
Black Phosphate
Phillips Truss Head
M4.8-1.61 x 15mm
(#10 x 19/32")
19mm (9/16")
Head O.D.
Nissan

724605 25

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TAPPING SCREWS

STAINLESS STEEL WELD STUD REPLACEMENT SCREW

- **Can be as many as 150 weld studs per car.**
- **Stripping and loose retainers are eliminated.**
- **Weld studs are frequently broken due to collision or during repair.**

Part No. 51650 50

PHILLIPS OVAL HEAD TAPPING SCREWS with TYPE "AB" POINT

UNDERSIZED HEAD

HEAD SIZE	PART NUMBER CHROME	QTY	PART NUMBER CHROMATE	QTY	PART NUMBER BLACK	QTY	DIA. & LENGTH
6	**716150**	25	---	-	**716168**	25	8 x 1/2
6	**716151**	25	**716160**	25	**717511**	25	8 x 3/4
6	**716152**	25	---	25	**717512**	25	8 x 1
6	---	-	---	-	**717513**	25	8 x 1-1/4
6	**716154**	25	---	25	**716169**	25	8 x 1-1/2
8	**716155**	25	**716164**	-	**716171**	25	10 x 3/4
8	**716156**	25	---	-	**716172**	25	10 x 1
8	**716157**	25	---	-	---	-	10 x 1-1/4

STANDARD HEAD

PART NUMBER BLACK	QTY	PART NUMBER CHROME	QTY	DIA. & LENGTH
716175	25	---	-	6 x 5/8
716176	25	**717590**	100	6 x 3/4
716177	25	**717591**	100	6 x 1
716178	25	**717592**	100	6 x 1-1/4
716179	25	---	-	8 x 1/2
717510	25	**717593**	100	8 x 3/4
716180	25	**717594**	100	8 x 1
716181	25	**717595**	100	8 x 1-1/4
716182	25	---	-	8 x 1-1/2
716184	25	**717596**	100	10 x 3/4
716185	25	**717597**	100	10 x 1
716186	25	---	-	10 x 1-1/2
716187	25	---	-	10 x 2

PHILLIPS OVAL HEAD TAPPING SCREWS with TYPE "AB" POINT

With 3/8" Diameter Round Washer Head

PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	DIA. & LENGTH
716188	25	**716192**	25	8-18 x 1/2
716189	25	**716193**	25	8-18 x 3/4

PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	DIA. & LENGTH
716190	25	**716194**	25	8-18 x 1
---	-	**716195**	25	8-18 x 1-1/4

PHILLIPS ROUND HEAD TAPPING SCREWS with TYPE "AB" POINT

With 1/2" Diameter Round Washer Head

PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	DIA. & LENGTH
716203	25	**716211**	25	8-18 x 1/2
716204	25	**716212**	25	8-18 x 3/4
716205	25	**716213**	25	8-18 x 1
716206	25	**716214**	25	8-18 x 1-1/4

PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	DIA. & LENGTH
716207	25	**716215**	25	10-16 x 3/4
716208	25	**716216**	25	10-16 x 1
716209	25	**716217**	25	10-16 x 1-1/4
716210	25	**716218**	25	10-16 x 1-1/2

PHILLIPS OVAL HEAD TAPPING SCREWS with TYPE "AB" POINT & FLUSHWASHER

HEAD SIZE	PART NUMBER BLACK	QTY	PART NUMBER CHROME	QTY	DIA. & LENGTH
6	**716230**	100	---	-	8 x 1/2
6	**716231**	100	**717560**	100	8 x 5/8
6	**716232**	100	---	-	8 x 11/16

HEAD SIZE	PART NUMBER BLACK	QTY	PART NUMBER CHROME	QTY	DIA. & LENGTH
6	---	-	**717561**	100	8 x 7/8
6	**716233**	100	---	-	8 x 1
6	**716234**	100	---	-	8 x 1-1/4

- **Type "AB" SEMS®.**
- **Reduced head.**

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TRIM SCREWS

PHILLIPS OVAL HEAD TRIM SCREWS with TYPE "AB" POINT & COUNTERSUNK WASHER

PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	DIA. & LENGTH
717550	25	**717565**	25	6-20 x 3/4
717551	25	**717566**	25	6-20 x 1
716196	25	**716200**	25	8-18 x 5/8
717553	25	**717567**	25	8-18 x 3/4
717554	25	**717568**	25	8-18 x 1
717555	25	**717569**	25	8-18 x 1-1/4

PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	DIA. & LENGTH
716197	25	**---**	-	8-18 x 1-1/2
716199	25	**716201**	25	10-16 x 5/8
717556*	25	**717570**	25	10-16 x 3/4
717557*	25	**717571**	25	10-16 x 1
717558*	25	**716202**	25	10-16 x 1-1/4

*** w/ No. 8 Head**

BLACK OXIDE TRIM SCREWS

Used on instrument panels and interior trim.

HEAD SIZE	PART NUMBER	QTY	DIA. & LENGTH
8	**717510**	25	8 x 3/4
6	**717511**	25	8 x 3/4
6	**717512**	25	8 x 1
6	**717513**	25	8 x 1-1/4

HEAD SIZE	PART NUMBER	QTY	DIA. & LENGTH
8	**717514**	25	8 x 1-1/4
6	**717515**	25	8 x 1/2
6	**717516**	25	8 x 3/4
6	**717517**	25	8 x 1
6	**717518**	25	8 x 1-1/4

HEAD SIZE	PART NUMBER	QTY	DIA. & LENGTH
8	**717519**	25	8 x 1/2
8	**717520**	25	8 x 3/4
8	**717521**	25	8 x 1

EXTRA LONG TRIM SCREWS

Used on headlamps, parking lights and grilles.

- **Phillips oval head.**
- **Universal applications.**

HEAD SIZE	PART NUMBER BRIGHT ZINC	QTY	PART NUMBER CHROME	QTY	DIA. & LENGTH
6	**717522**	50	**---**	-	8 x 2-5/8
8	**---**	-	**717588**	50	8 x 3
8	**717523**	50	**---**	-	8 x 4
7	**717524**	50	**---**	-	8 x 5

DRILL POINT MOULDING and TRIM SCREWS

ROUND WASHER HEAD

PART NUMBER	QTY	SIZE	LENGTH	HEAD DIA	FINISH	DRIVE
716221*	50	8-18	3/8	7/16	Chrome	Phillips
716220†	50	8-18	7/16	9/32	Chrome	Phillips Pozi
716228	50	8-18	1/2	3/8	Chrome	Phillips
716222†	50	8-18	1/2	11/32	Chrome	Phillips Pozi
716219	50	8-18	1/2	13/32	Black	Phillips
718840	50	8-18	1	7/16	Zinc	Phillips Pozi
716225	50	#10	9/16	7/16	Zinc	Phillips

*** Wheel housing moulding † BiWax sealer**

METRIC ROUND WASHER HEAD

PART NUMBER	QTY	SIZE MM	LENGTH	HEAD DIA	FINISH	DRIVE
718807†	50	3.5	8mm	6mm	Chrome	Phillips Pozi
718809†	25	4.2-1.41	13mm	11mm	Black	Phillips Pozi
716223	50	4.2-1.41	13mm	8mm	Chrome	Phillips Pozi
718812	25	4.2-1.41	16mm	11mm	Chrome	Phillips Pozi
718813	50	4.2-1.41	16mm	11mm	Black	Phillips Pozi
718811	50	4.2-.79	15mm	11mm	Black	Phillips

† BiWax sealer

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HEX HEAD MACHINE SCREW THREAD with CONE POINT

Used on hood hinge to hoods and fenders, radiator supports, radiator fan shrouds, radiator grilles, headlamps and general usage .

PART NUMBER	THREAD SIZE INCHES	LENGTH INCHES	WASHER O.D. INCHES	QTY
718891	1/4-14	3/4	5/8	25
717250	5/16-18	13/16	5/8	50
717251	5/16-18	1	5/8	50

PART NUMBER	THREAD SIZE INCHES	LENGTH INCHES	WASHER O.D. INCHES	QTY
717252	5/16-18	1-1/4	5/8	50
717254	3/8-16	1	1	50
717255	3/8-16	1-1/2	1-1/8	50

THE FLANGED LOCKING SYSTEM

- **Teeth lock on for stringer, more reliable assembly - 30% more torque is required for disassembly.**
- **Hardened teeth permit reuse up to 15 times - saves money.**
- **Dog point allows easy panel alignment.**
- **Flange eliminates separate washers - saves money and cuts assembly time.**
- **Black Phosphate coating.**

USS COARSE BODY BOLTS

PART NUMBER	BOLT SIZE INCHES	WASHER HEX	HEAD O.D.	QTY
50606	1/4 x 5/8	3/8	5/8	50
50609*	5/16 x 3/4	1/2	13/16	50
50610	5/16 x 1	1/2	13/16	50

***Denotes dog point**

PART NUMBER	BOLT SIZE INCHES	WASHER HEX	HEAD O.D.	QTY
50612*	5/16 x 1-1/4	1/2	13/16	50
50631	3/8 x 1	9/16	3/4	50

SAE FINE BODY BOLTS

PART NUMBER	BOLT SIZE INCHES	WASHER HEX	HEAD O.D.	QTY
50614*	5/16 x 1	1/2	13/16	50

HEX FLANGE HEAD BODY BOLTS

- **Black Phosphate finish.**

PART NUMBER	REPL. OE NO.	DIA.	LENGTH	WASHER	HEX	QTY
717259	N/A	6mm x 1.0mm	25mm	12mm	10mm	25
717269	11502605	8mm x 1.25mm	25mm	17mm	13mm	25
720143	11504499	8mm x 1.25mm	30mm	16mm	13mm	25
720137	10082036	8mm x 1.25mm	41mm	13mm	10mm	25
720141	11502607	10mm x 1.5mm	30mm	25mm	15mm	12

HEX HEAD BODY BOLTS with LOOSE WASHER

- **Black Phosphate finish.**

PART NUMBER	REPL. OE NO.	DIA.	LENGTH	WASHER	HEX	QTY
720151	11505816	5mm x .80mm	20mm	14mm	8mm	25
720152	20585900	6mm x 1.0mm	16mm	16mm	10mm	25
717459	11504570	6mm x 1.0mm	20mm	17mm	10mm	12
717460	11504303	6mm x 1.0mm	25mm	17mm	10mm	12

HEX FLANGE HEAD BODY BOLTS with STARTER POINT

PART NUMBER	REPL. OE NO.	DIA.	LENGTH	FLANGE	HEX	FINISH	QTY
720182*	34201287	6mm x 1.0mm	20mm	12.7mm	10mm	Zinc	25
720140**	10130851	6mm x 1.0mm	20mm	14mm	10mm	Black	25
720186	20083312	6mm x 1.0mm	28mm	13mm	10mm	Black	12
717263	11500961	6.3mm x 1.0mm	20mm	13mm	10mm	Black	25
720189†	11503702	6.3mm x 1.0mm	20mm	13mm	10mm	Blue	25
717469†	3071437	6.3mm x 1.0mm	25mm	12mm	10mm	Blue	12
717268	11500969	8mm x 1.25mm	20mm	16mm	13mm	Black	25
717472	11500970	8mm x 1.25mm	25mm	16mm	13mm	Black	12
720192	11504492	8mm x 1.25mm	31mm	17mm	13mm	Black	12
720194	10037786	8mm x 1.25mm	40mm	17mm	13mm	Black	25

†Blue finish *Zinc finish **2mm Knurl below head

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BOLTS

HEX HEAD BODY BOLTS with LOOSE WASHER & STARTER POINT

- Black Phosphate finish.

PART NUMBER	REPL. OE NO.	DIA.	LENGTH	WASHER	HEX	QTY
717467	11503823	6mm x 1.0mm	20mm	17mm	10mm	12
720184	11503834	6mm x 1.0mm	25mm	17mm	10mm	25
717468	11504493	6mm x 1.0mm	25mm	24mm	10mm	12
720187	11505044	6mm x 1.0mm	35mm	17mm	10mm	25
720188	11501105	6.3mm x 1.0mm	20mm	17mm	10mm	25
720190†	11503633	6.3mm x 1.0mm	25mm	16mm	10mm	25
717470	11500754	6.3mm x 1.0mm	25mm	18mm	10mm	12
717471	365718	6.3mm x 1.0mm	25mm	23mm	10mm	12
717264	11501184	6.3mm x 1.0mm	40mm	17mm	10mm	25
717473	11501102	8mm x 1.25mm	25mm	24mm	13mm	12
717474	11501188	8mm x 1.25mm	30mm	24mm	13mm	12
720193	11509096	8mm x 1.25mm	35mm	24mm	13mm	25
717272	11501193	10mm x 1.5mm	40mm	30mm	15mm	25

†Blue finish *Zinc finish

UNIVERSAL BUMPER BOLTS - ROUND HEAD

- Stainless steel capped.
- USS threads.

PART NUMBER	BOLT SIZE INCHES	HEAD DIA. INCHES	QTY
702512	3/8-16 x 1	27/32	6
702513	3/8-16 x 1-1/4	27/32	6
702510	7/16-14 x 1-1/4	31/32	6
702511	7/16-14 x 1-1/2	31/32	6
702520	1/2-13 x 1-1/4	1-3/32	6

HEX HEAD BODY BOLTS DOG POINT with WASHER

PART NUMBER	REPL. OE NO.	DIA.	LENGTH	WASHER	HEX	FINISH	QTY
718894	57472-S2	1/4-20	3/4	3/4	7/16	Black	25
50607	57030-S2	1/4-20	7/8	3/4	7/16	Black	50
718897	57032-S36	1/4-20	1-1/8	3/4	7/16	Dichromate	25
718898	---	1/4-20	1-3/16	3/4	7/16	Black	25
718919	57039-S2	5/16-18	15/16	7/8	1/2	Black	25
718920	384930-S36	5/16-18	15/16	7/8	1/2	Dichromate	25
718922	57041-S2	5/16-18	1-3/16	7/8	1/2	Black	25
718926	57048-S2	3/8-16	1-3/16	1	9/16	Black	25

HEX HEAD BODY BOLTS with LOOSE WASHER & DOG POINT

PART NUMBER	REPL. OE NO.	DIA.	LENGTH	WASHER	HEX	FINISH	QTY
720157	6100539	5mm x 0.8mm	20mm	12mm	8mm	Black	25
720158	N606675-S2	6mm x 1.0mm	18mm	19mm	8mm	Black	25
717479	N606676-S36	6mm x 1.0mm	23mm	19mm	8mm	Dichromate	25
720164	N606676-S2	6mm x 1.0mm	23mm	19mm	8mm	Black	25
	6100566						
717463	6100567	6mm x 1.0mm	25mm	19mm	10mm	Black	25
720165	N606677-S	6mm x 1.0mm	28mm	19mm	8mm	Black	12
721076	N606677-S36	6mm x 1.0mm	28mm	19mm	8mm	Dichromate	12
717464	6100568	6mm x 1.0mm	30mm	19mm	10mm	Black	12
720170	11500402	8mm x 1.25mm	25mm	15mm	13mm	Black	25
720171	N606689-S2	8mm x 1.25mm	25mm	22mm	10mm	Black	12
720172	N606690-S2	8mm x 1.25mm	30mm	22mm	10mm	Black	12

TORX WASHER HEAD BODY BOLTS with STARTER POINT

- GM & General Purpose.
- Zinc finish.

PART NUMBER	DIA.	LENGTH	WASHER HD. DIA.	QTY
717455	6mm x 1.0mm	20mm	18mm	12
718968	6mm x 1.0mm	25mm	18mm	25
718969	6mm x 1.0mm	30mm	18mm	25

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WASHERS and NUTS

OVERSIZE WASHERS (FENDER WASHERS)

- Designed for applications requiring large bearing surface.
- Universal applications.

BOLT SIZE	THICKNESS 1/16	THICKNESS 1/8	O.D.	QTY
3/16	716490	---	1/2	100
3/16	716491	---	3/4	100
3/16	---	716477	15/16	25
1/4	717140	---	5/8	100
1/4	---	716478	1	25
1/4	---	716479	1-1/8	25
1/4	717141	---	1-1/4	100
1/4	---	716480	1-1/2	25
5/16	717142	---	3/4	100

BOLT SIZE	THICKNESS 1/16	THICKNESS 1/8	O.D.	QTY
5/16	717143	716481	1-1/4	50
5/16	716492	---	1-1/2	50
3/8	717144	716482	1-1/4	50
3/8	717145	---	1-1/2	50
3/8	716493	716483	1-3/4	25
3/8	716497	---	2	25
1/2	716494	---	1-1/2	25
1/2	716495	716484	2	25
-	---	---	-	-

NICKEL PLATED FINISHING WASHERS

- Brass nickel plated to prevent corrosion.
- Use on headliners, trim, door panels, etc.

SCREW SIZE	PART NUMBER FLUSH	PART NUMBER COUNTERSUNK	QTY
No. 4	---	51059	100
No. 6	---	51063	100
No. 8	51061	51064	100

SCREW SIZE	PART NUMBER FLUSH	PART NUMBER COUNTERSUNK	QTY
No. 10	51062	51065	100
No. 12	---	51066	100
No. 14(1/4)	---	51067	100

HEX FLANGE NUTS

JIS HEX LOCK NUTS

- Flange style with serrated washer face.
- Case hardened.
- Lusterplated.

SIZE	PART NUMBER (USS)	PART NUMBER (SAE)	QTY
10-24	720252*	---	50
1/4	50620	50624	50
5/16	50621	50625†	50
3/8	50622	50626	50
7/16	50616	50627	25
1/2	50617	50628	25
5/8	50618	---	25
3/4	50619	---	10

† Black Oxide Finish * 3/16" Diameter

SIZE	PITCH	A/F NUMBER	PART	QTY
6mm	1.00	10mm	630425	50
8mm	1.25	12mm	630426	50
10mm	1.25	14mm	630427	50
10mm	1.50	14mm	717273	25

HEX WASHER NUTS

- Flange style with smooth washer face.
- Case hardened.
- Universal applications.

SIZE	PITCH	A/F NUMBER	PART	QTY
5mm	.80	8mm	716895†	25
6mm	1.00	10mm	717260†	25
8mm	1.25	13mm	717270†	25
10mm	1.25	14mm	717299**	25
10mm	1.50	15mm	717287†	25

† Black Oxide Finish **Zinc Yellow

HEX NUTS with FREE SPINNING WASHER

- Lusterplated steel.
- Universal applications.
- Washer points provide positive locking action.

METRIC

DIA.	PITCH	PART NUMBER	WASHER	HEX	QTY
5mm	.80	716894	15mm	10mm	25
6mm	1.00	720297	14mm	10mm	25
6mm	1.00	720298	16mm	11mm	25
6mm	1.00	717475*	16mm	11mm	25
6mm	1.00	716887	16mm	10mm	25
6mm	1.00	717476	18mm	11mm	25

DIA.	PITCH	PART NUMBER	WASHER	HEX	QTY
6mm	1.00	720299	19mm	10mm	25
6mm	1.00	720301	24mm	11mm	25
6.3mm	1.00	717265	16mm	11mm	25
6.3mm	1.00	717477	19mm	11mm	25
8mm	1.25	720304	28mm	13mm	25
8mm	1.25	717478	24mm	13mm	25

* Non-locking

BRASS MANIFOLD NUTS

- Manifold and universal applications.
- Corrosion resistant. Burr-free threads.
- High strength copper-zinc formation.
- Six different metric sizes - 6mm to 10mm.

SIZE-PITCH	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
6mm-1.00	553161	10mm	5mm	50
8mm-1.25	553162	13mm	6mm	50

SIZE-PITCH	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
10mm-1.50	553163	17mm	8mm	50
--	---	-	-	-

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NUTS

FLAT TYPE SPEED NUTS

- Carbon steel.
- Rust resistant.
- Used with studs, sheet metal and machine screws.
- Reusable.

Push-On

SMS

Machine Screw

Push-On

PART NUMBER	SIZE	QTY
51191	1/16	100
51192	3/32	100
51193	1/8	100
51194	5/32	100
51195	3/16	100
51196	7/32	100
51197	1/4	100

SMS

PART NUMBER	SIZE	QTY
51199	No. 4	100
511100	No. 6	100
511101	No. 8	100
511102	No 10	100
511103	No.14	100

Machine Screw

PART NUMBER	SIZE	QTY
511104	6-32	100
511105	8-32	100
511106	3/16	100
511107	1/4-20	100

"U" & "J" TYPE SPEED NUTS

- Heat treated spring steel.
- Reusable.
- Rust resistant.
- Self-locking.

"J" Type

"U" Type

"J" PART NUMBER	"D" PANEL RANGE	SCREW SIZE	"U" PART NUMBER	"D" PANEL RANGE	QTY
511112	9/32	No.6	**511117**	3/8	100
511113	5/16	No.8	**511118**	9/32	100
511114	9/32	No.10	**511119**	15/32	100
511115	1/2	No.14	**511120**	17/32	100
511116	15/32	No.14	**---**	--	-

UNIVERSAL EXTRUDED "U" TYPE SPEED NUTS

- Used for the assembly of grilles, fenders, radiators, and supports.
- Black finish resists rust.
- Clean, burr-free rolled internal machine screw thread.
- All fasteners have universal applications.

PART NUMBER	"D" PANEL RANGE	SCREW SIZE	QTY
717104	1/2	10-24	100
717105	1/2	1/4-20	25
717106	25/32	1/4-20	25
717107	5/8	5/16-18	50
717108	7/8	5/16-18	50
717109	3/4	3/8-16	10

UNIVERSAL "J" CAGE NUTS

- The three most popular "J" cage nuts.
- All "J" cage nuts have universal applications - saving money.

PART NUMBER	"D" PANEL RANGE	SCREW SIZE	QTY
717150	1/2	1/4-20	25
717151	9/16	5/16-18	25
717152	19/32	3/8-16	25

THREAD CUTTING NUTS

U/M Stamped Hex Nut	GM U/M Stamped Hex Nut	GM U/M Stamped Hex Nut		
Self Threading w/Locking Tabs	Self Threading w/o Sealer	Self Threading w/o Sealer		
3/16" Stud 5/8" Washer 3/8" A/F Zinc Finish	4mm Stud 9mm Hex w/15mm Integral Faceted Washer	5mm Stud 10mm Hex w/15mm Integral Flat Washer		
Universal	GM 1978/on Universal	GM 1977/on Universal		
OE: N/A	OE: 11502540	OE: 11501932		
724473 50	**720327** 50	**717485** 50		

PAL NUTS

- Vibration proof; reusable.
- Same wrench size as standard nuts.
- Regular style for threaded fasteners.

Regular

THREAD SIZE	PART NUMBER	WASHER O.D.	HEX O.D.	QTY
8-32	**516281**	15/32	11/32	100
3/16	**516282**	1/2	3/8	100
3/16	**516283**	3/4	3/8	100
1/4-20	**516284**	19/32	7/16	100
5/16-18	**516291**	13/16	1/2	100

- Thread cutting style for studs.
- Formed washer face holds in place.

Thread Cutting

STUD SIZE	PART NUMBER	WASHER O.D.	HEX O.D.	QTY
1/8	**516285**	--	5/16	100
1/8	**516286**	7/16	5/16	100
1/8	**516287**	17/32	5/16	100
3/16	**516288**	1/2	3/8	100
3/16	**516289**	--	1/2	100
1/4	**516290**	11/16	7/16	100
5/16	**720267**	3/4	--	50

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PAL LOCK NUTS

- Vibration proof.
- Used on top of standard nuts as a double lock.

THREAD SIZE	PART NUMBER	QTY
7/16	**503371**	50
1/2	**503372**	50

PUSH NUT RETAINERS

- Spring steel - positive locking.
- Push over stud for fast and easy permanent installation.
- Will not back off.
- Not reusable.

STUD SIZE	PART NUMBER	O.D.	QTY
1/8	**503101**	3/8	100
5/32	**503102**	7/16	100
3/16	**503103**	7/16	100
1/4	**503104**	17/32	100
5/16	**503105**	5/8	100
3/8	**503106**	3/4	100
1/2	**503107**	1	50

PUSH NUT BOLT RETAINERS

- Holds fasteners in place where hands can't reach.
- Insert cap screw through a panel, run bolt retainer onto threads. Cap screw, machine screw stays in place while hanging outside panel, starting nuts, etc.

FITS THREAD SIZE	PART NUMBER	O.D.	QTY
No. 10	**720273**	7/16	100
1/4	**503160**	1/2	100
5/16	**503161**	5/8	100
3/8	**503162**	25/32	100
7/16	**503163**	27/32	100
1/2	**503164**	15/16	100

METRIC PUSH NUT RETAINERS

FITS STUD SIZE	PART NUMBER	O.D.	QTY
3.2mm	**717490***	9.5mm	50
4mm	**717491**	11mm	50
5mm	**717492**	11mm	50
6mm	**716898***	13.5mm	50

* Zinc

METRIC PUSH NUT BOLT RETAINERS

INSIDE DIAMETER	OUTSIDE DIAMETER	PART NUMBER	QTY
6mm	13mm	**717493**	50
6mm	17mm	**716897***	50
6.3mm	13mm	**717494**	50
8mm	16mm	**717495**	50
8mm	25mm	**503157**	50
10mm	20mm	**503173**	50
10mm	24mm	**503158**	50
12mm	21mm	**503174†**	50
14mm	25mm	**503159**	50

* Dichromate. / † Zinc.

WELL NUTS

- 'Well Nut' is a flanged neoprene bushing with a captive brass nut.
- Designed to provide a shock and vibration resistant fixing for engineering structures.
- This demountable blind screw anchor is suitable for applications of many kinds in many conditions, in materials from thin gauge metals to plastic sheet up to 16.5mm thick.
- A high rate of radial expansion even allows use in blind holes in solid materials.

No other blind fastener does all this...

PART NUMBER	THREAD SIZE	SHANK DIA.	OVERALL LENGTH	HOLE SIZE REQUIRED	QTY
503165	6-32	.312	.499	5/16	50
503166	8-32	.312	.499	5/16	50
503167	10-24	.375	.767	3/8	50
503168	10-32	.375	.807	3/8	50
503169	1/4-20	.500	.641	1/2	50
503170	1/4-20	.500	1.051	1/2	50
503171	5/16-18	.620	.725	5/8	25
503190	10-32	.375	1.051	3/8	10
503191	10-32	.377	.665	3/8	10

EXPANSION NUTS (JACK NUTS)

GM U/M

Body Rack Mounting Jack Nut
Zinc Finish w/Raintite

6mm-1.0 Thread
15.88mm Head
11.1-11.43mm Hole
.38-4.75mm G.R.
18.57mm O/L
GM, Universal
OE: 14007940

716776 12

U/M

Mirror Mounting Jack Nut
Zinc Finish

1/4"-20 Thread
.625" Head
.434-.450" Hole
.015-.187" G.R.
.731" O/L
Universal

717165 12

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NUTS and THREAD REPAIR

EXPANSION NUT KITS (REAR VIEW MIRROR KIT)

Expansion nut kits are perfect for use in thin materials where wood and sheet metal screws will not hold.

Excellent for mounting fixtures to cars & trucks. OE on GMC & Chevy trucks. Installs blinds from one side.

EXPANSION NUT KIT

Contains 25 ea. of 717165 nuts and 717034 stainless steel screws.

OE: 367292

Part No. 717033 25

REPLACEMENT STAINLESS STEEL SCREW

Special stainless steel screw with nylon washer that will not rust.

OE: 367291

Part No. 717034 25

Instructions:
1. Drill (7/16") hole. **2.** Insert nut, flange side out.
3. Insert screw and tighten to collapse legs of nut.
4. Remove bolt, mount fixture and retighten.
Thread size of nut 1/4"- 20. Hole size required 7/16".

HEAVY DUTY STEEL CLINCH-NUTS®

- **Strong load bearing threads.**
- **Install in practically any material.**
- **Use in any thickness material, from .030 to infinity.**

Clinch-nut installation

Clinch-Nuts are a one-piece design consisting of a nut portion and a sleeve portion.

A rotating tool mandrel exerts a pull and "breaks" the nut portion from the sleeve drawing it into the sleeve.

The nut portion expands the sleeve exerting a 360° swage fit against the parent material.

HEAVY DUTY INSTALLATION TOOL

Part No. 503115

- **Simple to use.**
- **Adapters allow installation of any size Clinch-Nuts or Rivet-Nuts.**
- **Order adapters separately.**

STEEL CLINCH-NUT PART NUMBER	QTY	THREAD SIZE	MATERIAL THICKNESS .030-.090 DRILL	.091-.124 DRILL	.125-.186 DRILL	.187-OVER DRILL	HEAVY DUTY ADAPTER PART NUMBER	LIGHT DUTY TOOL ONLY* PART NUMBER
503110	25	6-32	7/32	No.2	No.1	No.1	**503150**	---
503111	25	8-32	1/4	"F"	17/64	17/64	**503151**	**503176**
503112	25	(10-24)3/16	9/32	"L"	"L"	19/64	**503152**	**503177**
503113	25	(10-32)3/16	9/32	"L"	"L"	19/64	**503153**	**503178**
503114	25	1/4-20	3/8	3/8	"W"	25/64	**503154**	**503179**
503121	25	5/16-18	1/2	1/2	33/64	33/64	**503155**	**503180**

*** Sizes no. 6 & 8 supplied with hex key, sizes 10 thru 5/16 require std. socket wrench.**

CLINCH-NUT

Part No. 503121

LIGHT DUTY INSTALLATION TOOL

- **A unique time & money saver.**
- **Makes quick, quality repairs in the field.**
- **For the frequent user, use Tool Part No. 503115.**

HEAVY DUTY CLINCH-NUT INSTALLATION TOOL ADAPTERS

Pre-assembled hex nose piece assemblies and "Quick Change" tool nose piece holder make installation fast and easy.

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THREAD REPAIR

RIVET-NUT BLIND THREADED RIVETS

- **Perfect for use in light-gauge materials of metal, plastic and rigid composition. Material previously too thin to tap threads can now be accommodated.**
- **A Rivet-Nut is a tubular rivet with internal threads. It can be installed from one side in seconds. Once a Rivet-Nut is installed, it is ready to use with clean threads available for screw attachments. Used for materials .010 through .125 in. thickness.**
- **The Rivet-Nut Insta-Threads are available in standard heads, which are surface mounted and extend slightly above the material in which they are installed. Also available are the expander heads (small flathead), which may be used for flush or 120° countersunk installations or wherever a smaller head may be required.**

PROPER TOOL SELECTION

- **Both Rivet-Nut tool, H.D. Clinch-Nuts and light duty installation tools will install all threaded inserts, Clinch-Nuts or Rivet-Nuts. However, due to the design of each type of threaded insert, we recommend that the Clinch-Nut tool or light duty tool be used for Clinch-Nut installation and that the Rivet-Nut tool be used for Rivet-Nut Insta-Thread installations.**

THREAD SIZE (PITCH)	STANDARD HEAD LARGE FLANGE STEEL PART NUMBER	STANDARD HEAD LARGE FLANGE ALUM PART NUMBER	EXPANDER SMALL FLANGE STEEL PART NUMBER	EXPANDER SMALL FLANGE ALUM PART NUMBER	DRILL SIZE	GRIP RANGE	H.D CLINCH-NUT TOOL	LIGHT DUTY INSTALLATION TOOL ADAPTER
6-32	---	---	**503921**	---	3/16		---	---
8-32	---	---	**503922**	---	7/32	.010" min.	**503151**	**503176**
10-24	**503916**	**503932**	**503923**	---	1/4	to	**503152**	**503177**
10-32	**503917**	**503933**	**503924**	**503940**	1/4	.080" max.	**503153**	**503178**
1/4-20	**503918**	**503934**	**503925**	**503941**	11/32		**503154**	**503179**
5/16-18	---	**503935**	---	---	27/64	.020" min.	**503155**	**503180**
						to		
3/8-16	---	---	---	---	1/2	.125" max.	---	---
M3.5-0.6	---	---	---	---	M4.9(3/16)		**n/a**	**n/a**
M4-0.7	---	---	---	---	M5.6(7/32)	M.25min.	**n/a**	**n/a**
M5-0.8	---	---	---	---	M6.4(1/4)	to	**n/a**	**n/a**
M6-1.0	---	---	---	---	M8.7(11/32)	M2.03max.	**n/a**	**n/a**
M8-1.25	---	---	---	---	M10.5(27/64)	M.50min.	**n/a**	**n/a**
						to		
M10-1.5	---	---	---	---	M12.5(1/2)	M3.18max.	**n/a**	**n/a**

RIVET-NUT TOOL

Part No. 503910
Includes a mandrel and a nosepieces for 8-32, 10-24 and 10-32 inserts.

TOOL WARRANTY NOTE:
Rivet Setting Tool, Part No. 503910, is not warranted by us. The manufacturer requires that tools be returned to them. Necessary information is packed with every tool.

MANDRELS & NOSEPIECES FOR RIVET NUT TOOL #503910

THREAD SIZE	PART NUMBER
6-32	**503980**
8-32	**503981**
10-24	**503982**
10-32	**503983**
1/4-20	**503984***

***Mandrel only, nosepiece not required.**

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QUICK REFERENCE SUB-INDEX J10 BODY CLIPS AND SMALL PARTS

AUTOBODY FASTENERS

PRODUCTS **PAGES**

RIVETS

BLIND RIVETS, NYLON J10-58, 61-62
BUMPER RIVETS J10-57, 60
MISCELLANEOUS RIVETS J10-62-63
MISCELLANEOUS SPECIAL APPLICATION J10-57, 60-62
RIVETING TOOLS J10-58-59
TRIM RIVETS J10-56, 60
WINDOW, GLASS and DOOR RIVETS J10-56, 60
ASSORTMENTS J10-6

MISCELLANEOUS

OEM to PART NUMBER INTERCHANGE J10-64-69
OEM INTERCHANGE by MANUFACTURER J10-69-74

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SPECIAL APPLICATION RIVETS

TRIM RIVETS (For actual size illustrations, see page J10-60)

RIVET DIA. "A" INCHES	HEAD DIA. "B" INCHES	RIVET LENGTH "C" INCHES	GRIP RANGE INCHES	DRILL SIZE † INCHES	PART NUMBER	TYPE	MATERIALS BODY / MANDREL	O.E.M. NUMBER	APPLICATION	QTY
1/8	3/16	9/32	1/16 to 3/16	No. 30 or 1/8	**52612***	1	Aluminum / Aluminum	Universal	Standard Aluminum Trim Rivet, Applications up to 3/16"	200
1/8	3/16	3/8	1/8 to 1/4	No. 30 or 1/8	**52613***	1	Aluminum / Aluminum	Universal	Long Aluminum Trim Rivet Applications up to 1/4"	200
1/8	3/16	9/32	1/16 to 3/16	No. 30 or 1/8	**52721***	1	Stainless Steel / Stainless Steel	Universal	Stainless Steel Clip Rivet, Stainless version of 52612 for Higher Strength Appl.s	200
1/8	1/4	3/8	1/8 to 3/16	No. 30 or 1/8	**52708**	1	Aluminum / Aluminum	Universal	Aluminum Trim Channel Rivet	200

WINDOW, GLASS and DOOR RIVETS (For actual size illustrations, see page J10-60)

RIVET DIA. "A" INCHES	HEAD DIA. "B" INCHES	RIVET LENGTH "C" INCHES	GRIP RANGE INCHES	DRILL SIZE † INCHES	PART NUMBER	TYPE	MATERIALS BODY / MANDREL	O.E.M. NUMBER	APPLICATION	QTY
1/4	1/2	1/2	1/32 to 9/64	F or 1/4	**52727***	2	Aluminum / Steel	AMC: 004005791 Chry: 6031115 Ford: 385189-S100 GM: 9436175	Window Regulator Peel Style, '71/on 4 required per car, Cadmium Plated	50
1/4	1/2	15/16	33/64 to 19/32	F or 1/4	**52728***	2	Aluminum / Steel	Chry: 6031091 Ford: 385323-S100 GM: 9437938	Glass Stop Peel Style, '76/on Cadmium Plated	50
1/4	1/2	15/16	11/64 to 3/4	F or 1/4	**52729***	3	Aluminum / Steel	Ford: 389268-S100 GM: 20184399, 12338153	Window Regulator Peel Style, '79/on Cadmium Plated	50
1/4	1/2	1/2	7/64 to 11/64	F or 1/4	**527101***	2	Aluminum / Steel	GM: 20713843	Window Regulator Door Lock Assemblies, "A" & "J" Models Zinc Finish, Peel Style	25
1/4	1/2	1/2	9/64 to 3/16	F or 1/4	**527102***	2	Aluminum / Steel	Chry: 6032926 GM: 9437486	Window Regulator Quarter Vent Handles and Electrical Lock, '81/on Linkage, Peel Style Chromate Coated	25
1/4	1/2	1/2	3/32 to 1/8	F or 1/4	**52791***	2	Aluminum / Steel	Ford: 388047-S100 GM: 14078435	Outer Door Handle Peel Style, '78/on Ford Gold Chromate Coated Mandrel	100
1/4	1/2	1/2	3/32 to 1/8	F or 1/4	**527103***	2	Aluminum / Steel	Ford: 388047-S102	Outer Door Handle Peel Style, '81/on Black Finish	25
3/16	5/8	3/4	1/2 to 5/8	3/16	**527104**	13	Aluminum / Aluminum	Chry: N/A	Glass Stop Roller Rivet	25
1/4	1/2	9/16	5/64 to 5/16	F or 1/4	**527105***	9	Aluminum / Steel	GM: 10157547	Front Door Regulator GM "APV" Vans Monobolt Style, '90/on Yellow Dichromate Coating	12

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SPECIAL APPLICATION RIVETS

BUMPER RIVETS (For actual size illustrations, see page J10-60)

Special Notes:
† Recommended size given first, followed by acceptable alternate size.
* Requires Special Nosepiece.

RIVET DIA. "A" INCHES	HEAD DIA. "B" INCHES	RIVET LENGTH "C" INCHES	GRIP RANGE INCHES	DRILL SIZE † INCHES	PART NUMBER	TYPE	MATERIALS BODY / MANDREL	O.E.M. NUMBER	APPLICATION	QTY
3/16	5/8	9/16	1/4 to 3/8	No. 12 or 3/16	**527108***	4	Steel / Steel	GM: 9439719	Fascia, To under-side of Bumper, '81/on, Zinc Mandrel, Black Body	50
1/4	1/2	1/2	1/8 to 1/4	F or 1/4	**52792**	5	Steel / Steel	Ford: 372820-S36, 372820-S40	Front Bumper Assembly, Bobcat, Pinto, '79/on Gold Chromate Coated	100
1/4	3/4	1/2	1/8 to 1/4	F or 1/4	**52793***	6	Steel / Steel	Ford: 388442-S100	Rear Bumper Assembly Zinc Coated Mandrel, '81/on Escort, Lynx Black Body	100
3/16	9/16	11/16	3/8 to 1/2	No. 12 or 3/16	**52794**	10	Aluminum / Aluminum	Ford: 388664-S100	Bumper Fascia, '82/on, Mustang, Capri Black Body	100
1/4	9/16	15/16	1/16 to 1/4	1/4	**527118**	8	Black Aluminum / Aluminum	Ford: N804851-S100	Front Bumper Blind Rivet Ford Taurus, Sable, '96/on Leg Retention Style	15

MISC. SPECIAL APPLICATION RIVETS (For actual size illustrations, see pages J10-60-61)

RIVET DIA. "A" INCHES	HEAD DIA. "B" INCHES	RIVET LENGTH "C" INCHES	GRIP RANGE INCHES	DRILL SIZE † INCHES	PART NUMBER	TYPE	MATERIALS BODY / MANDREL	O.E.M. NUMBER	APPLICATION	QTY
3/16	7/16	13/16	5/64 to 15/64	No. 12 or 3/16	**527109**	11	Aluminum / Aluminum	Ford: N/A	Lincoln Wheel House Moulding, '89/on, General Purpose Leg Retention Style Black Body	50
3/16	3/8	13/16	5/64 to 15/64	No. 12 or 3/16	**527110**	12	Aluminum / Aluminum	GM: 10125439	Moulding Attachment GM "APV" Vans, '90/on Leg Retention Style Black Body	25
1/8	3/8	3/8	1/8 to 3/16	No. 30 or 1/8	**527111**	1	Aluminum / Steel	GM: 9432552	Multi-Purpose GM Rivet, '78/on	50
3/16	3/8	3/8	1/8 to 3/16	No. 12 or 3/16	**527112**	1	Steel / Steel	GM: 9439576	General Purpose GM Rivet Zinc Finish	50
3/16	3/8	1/2	1/8 to 1/4	No. 12 or 3/16	**527113**	6	Steel / Steel	GM: 9440392	General Purpose GM Rivet Gold Chromate Plating	50
1/8	5/16	5/16	1/8 to 3/16	No. 30 or 1/8	**527114**	1	Aluminum / Steel	GM: 20325696	Attaches Sealer to Rear Window on "X" Body, '81/on	50
1/8	3/8	5/16	1/16 to 1/8	No. 30 or 1/8	**527115**	10	Aluminum / Aluminum	Ford: N805759-S100	Windshield Side Rail, '89/on T-Bird, Cougar Black Finish	50
5/32	5/16	5/16	1/8 to 3/16	No. 22 or 5/32	**527117***	14	Aluminum / Steel	Chry: 6032138 GM: 9432137	Trunk Lock Swivel Emblem Rivet, '73/on Countersunk Head	25

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NYLON BLIND RIVETS

AUTOMOTIVE O.E.M. APPROVED NYLON BLIND RIVETS

TYPE 1

TYPE 2

TYPE 3

DIMENSION GUIDE

(For actual size illustrations, see pages J10-79 & J10-80)

TYPE 5

TYPE 6

NYLON RIVET INSTALLATION TOOL

Part No.
817104

HOLE DIA. "A" MM INCHES	PANEL RANGE (Grip) "B" MM INCHES	HEAD DIA. (Grip) "C" MM INCHES	PART NO.	TYPE	COLOR	O.E.M. NUMBER	QTY
3.96 5/32	6.0 to 10.5 15/64 to 13/32	8.0 x 15.0 5/16 x 19/32	**817114**	6	Black	Ford: N804583-S	25
4.75 3/16	1.5 to 4.5 1/16 to 11/64	9.0 11/32	**817121**	1	Black	GM: 20612732	25
4.75 3/16	1.5 to 3.5 1/16 to 9/64	9.5 3/8	**817122**	1	Black	Ford: N805132-S	25
5.0 13/64	1.5 to 4.5 1/16 to 11/64	12.0 15/32	**817105**	1	Black	Ford: N804189-S, GM: 20423647	25
5.0 13/64	3.0 to 4.0 1/8 to 5/32	9.0 11/32	**817120**	1	Black	Chry: 6004212, GM: 20465395	25
5.0 13/64	3.0 to 6.0 1/8 to 15/64	12.0 15/32	**817106**	1	Black	GM: 20432975, Chry: 6500899, VW: 175-853-577	25
5.0 13/64	3.0 to 4.75 1/8 to 3/16	12.0 15/32	**817107**	1	Black	Chry: 6500859	25
6.0 15/64	4.5 to 8.5 11/64 to 11/32	12.5 1/2	**817123**	1	Black	GM: 25524005	25
6.0 15/64	4.0 to 8.0 5/32 to 5/16	16.0 5/8	**817124**	1	Brown	GM: 10036503	25
6.3 1/4	0.5 to 4.0 1/32 to 5/32	16.5 21/32	**817117**	3	Black	Ford: N804134-S	25
6.3 1/4	4.0 to 10.0 5/32 to 25/64	17.0 43/64	**817128**	5	Black	Ford: N806296-S	25
6.3 1/4	4.0 to 10.5 5/32 to 13/32	16.5 21/32	**817129**	1	White	GM: 15506827	25
6.3 1/4	4.0 to 10.5 5/32 to 13/32	12.5 1/2	**817111**	1	Black	Chry: 6501559, Ford: N803862-S, GM: 20452072	25
6.3 1/4	4.0 to 10.5 5/32 to 13/32	16.5 21/32	**817110**	1	Black	Ford: N803043-S, GM: 14063981 AMC: 8934-201-631, Chry: 6500911	25
6.3 1/4	7.5 to 11.0 19/64 to 27/64	16.5 21/32	**817118**	1	Black	Chry: 4370138, Ford: N804675-S, N804759-S	25
6.75 17/64	1.0 to 4.0 3/64 to 5/32	20.5 13/16	**817119**	5	Black	GM: 10069112	25
6.75 17/64	2.5 to 4.75 3/32 to 3/16	12.5 1/2	**817112**	1	Black	GM: 15595172, 20421672	25
6.75 17/64	2.5 to 4.75 3/32 to 3/16	18.0 23/32	**817113**	1	Black	GM: 20433026, VW: 175-853-577A	25
7.0 9/32	2.5 to 6.0 3/32 to 15/64	18.0 23/32	**817130**	1	Black	GM: 10109689, 12337915	25

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RIVETING TOOLS

HEAVY DUTY RIVETER

Sets 1/4", 3/16" (Stainless Steel) and all special body shop rivets.

- **Extra nosepieces are conveniently stored in holes on tool body.**
- **Heavy duty tool features steel threads and light weight aluminum body.**
- **Sets 1/8" through 1/4" rivets including special door, window regulator and glass stop rivets.**
- **Long handles and gear reduction system easily set even 1/4" all steel rivets.**
- **Includes 5/32", 3/16" and 1/4" rivet nosepieces.**
- **Order optional nosepieces for special body rivets and monobolts from chart.**

NOSEPIECES

PART NUMBER	SIZE (INCHES)
52607	1/8
52608	5/32
52609	3/16
52610	1/4

JAWS - 1-SET
Part No. 52611

Part No. 52704

DYNALLOY DOUBLE ENDED COUNTERSINK DRILL

PART NUMBER	DRILL SIZE	DEC. EQUIV. INCHES	SHANK SIZE	OVERALL LENGTH
813630	1/8	.125	5/16	2-1/8

DYNALLOY TWIST DRILLS DOUBLE-END STRAIGHT SHANK

Self-centering split-point.

PART NUMBER	DRILL SIZE	DEC. EQUIV. INCHES	OVERALL LENGTH
*813625	1/8	.1250	2
*813626	3/16	.1875	2-3/16
813627	30	.1285	2
813628	20	.1610	2-1/8
813629	11	.1910	2-1/4

***Ideal sizes for Automotive and Body Shops**

INDUSTRIAL RIVET GUN

- **The most advanced industrial hand riveter.**
- **Contains four nosepieces for 3/32", 1/8", 5/32" and 3/16" diameter rivets.**

NOSEPIECES

PART NUMBER	SIZE (INCHES)
52602	3/32
52603	1/8
52604	5/32
52605	3/16

Part No. 52601

JAWS - 1-SET
Part No. 52606

WILL NOT SET 3/16" STAINLESS RIVETS

SPECIAL MANDRELS (NOSEPIECES)

Required to install certain trim, door, window regulator and glass stop rivets; monobolt structural rivets.

SPECIAL RIVET TYPE	SPECIAL RIVET PIN	RIVET GUN APPLICATIONS	SPECIAL MANDREL PART NUMBER
Trim Rivets	52612	Snapo-Model 404 B (4001)	52718
	52613		
	52721	Part No. 52601 (5/16"-24 Thread) Marson-HP-2 (39000) Snapo-Model 202 B (4003)	52719
Window Regulator, Glass Stop, And Door Split Rivets	52727	Part No. 52704 Marson-HP-5 Big Daddy (39010) Snapo-04024 Richline-04012 (model HN-80)	52797
	52728		
	52729		
	52791		
Monobolt 3/16	52750	Part No. 52704 Marson-HP-5 Big Daddy (39010) Snapo-04024 Richline-04012 (model HN-80)	52798
	52751		52798
	52753		52798
	52754		52798
Monobolt 1/4	52752		52799
	52755		52799
	52756		52799
Klamp-Tite Rivet 3/16	507315		507311
	507316		507311
	507317		507311
Klamp-Tite Rivet 1/4	507318		507312
	507319		507312

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SPECIAL APPLICATION RIVETS

Illustrations are actual size unless otherwise noted.

Trim Rivet
Aluminum Rivet
w/Aluminum Mandrel
1/8" Rivet Dia.
3/16" Head Dia.
9/32" Rivet Lgth.
1/16-3/16" G.R.
Universal
52612 200

Trim Clip Rivet
Stainless Steel Rivet
w/Stainless Steel Mandrel
1/8" Rivet Dia.
3/16" Head Dia.
9/32" Rivet Lgth.
1/16-3/16" G.R.
Universal
52721 200

Trim Rivet
Aluminum Rivet
w/Aluminum Mandrel
1/8" Rivet Dia.
3/16" Head Dia.
3/8" Rivet Lgth.
1/8-1/4" G.R.
Universal
52613 200

Trim Channel Rivet
Aluminum Rivet
w/Aluminum Mandrel
1/8" Rivet Dia.
1/4" Head Dia.
3/8" Rivet Lgth.
1/8-3/16" G.R.
Universal
52708 200

Glass Stop Peel Style Rivet, Aluminum Rivet w/Steel Mandrel
1/4" Rivet Dia.
1/2" Head Dia.
15/16" Rivet Lgth.
33/64-19/32" G.R.
Chry. & Ford 1976/on
OE: 6031091, 9437938
385323-S100
52728 50

Window Regulator Peel Style Rivet, Aluminum Rivet w/Steel Mandrel
1/4" Rivet Dia., 1/2" Head Dia.
1/2" Rivet Lgth.
1/32-9/64" G.R.
AMC, Chrysler, Ford & GM 1971/on
OE: 004005791, 6031115, 385189-S100, 9436175
52727 50

Window Regulator Door Lock Peel Style Rivet, Aluminum Rivet w/Steel Mandrel
1/4" Rivet Dia.
1/2" Head Dia.
1/2" Rivet Lgth.
7/64-11/64" G.R.
GM 'A' & 'J' Bodies
OE: 20713843
527101 25

Window Regulator Quarter Vent Handles & Elec. Lock Peel Style Rivet, Aluminum Rivet w/Steel Mandrel
1/4" Rivet Dia.
1/2" Head Dia.
1/2" Rivet Lgth.
9/64-3/16" G.R.
Chry. & GM 1981/on
OE: 6032926, 9437486
527102 25

Outer Door Handle Peel Style Rivet, Aluminum Rivet w/Steel Mandrel
1/4" Rivet Dia.
1/2" Head Dia.
1/2" Rivet Lgth.
3/32-1/8" G.R.
Ford 1978/on, GM
OE: 388047-S100, 14078435
52791 100

Outer Door Handle Peel Style Rivet, Aluminum Rivet w/Steel Mandrel
1/4" Rivet Dia.
1/2" Head Dia.
1/2" Rivet Lgth.
3/32-1/8" G.R.
Ford 1981/on
OE: 388047-S102
527103 100

Window Regulator Peel Style Rivet, Aluminum Rivet w/Steel Mandrel
1/4" Rivet Dia.
1/2" Head Dia.
15/16" Rivet Lgth.
11/64-3/4" G.R.
Ford & GM 1979/on
OE:12338153,20184399, 389268-S100
52729 50

Glass Stop Roller Rivet
Aluminum Rivet
w/Aluminum Mandrel
3/16" Rivet Dia.
5/8" Head Dia.
3/4" Rivet Lgth.
1/2-5/8" G.R.
Chrysler
527104 25

Front Door Regulator Monobolt Style Rivet
Aluminum Rivet
w/Steel Mandrel
1/4" Rivet Dia.
1/2" Head Dia.
9/16" Rivet Lgth.
5/64-5/16" G.R.
GM 'APV' Vans 1990/on
OE: 10157547
527105 12

Front Bumper Leg Retention Style Blind Rivet,
Black Aluminum Rivet
w/Aluminum Mandrel
1/4" Rivet Dia.
9/16" Head Dia.
15/16" Rivet Lgth.
1/16-1/4" G.R.
Taurus, Sable 1996/on
OE: N804851-S100
527118 15

Fascia to Underside of Bumper Rivet
Steel Rivet
w/Steel Mandrel
3/16" Rivet Dia.
5/8" Head Dia.
9/16" Rivet Lgth.
1/4-3/8" G.R.
GM 1981/on
OE: 9439719
527108 50

Bumper Fascia Rivet
Aluminum Rivet
w/Aluminum Mandrel
3/16" Rivet Dia.
9/16" Head Dia.
11/16" Rivet Lgth.
3/8-1/2" G.R.
Ford Mustang, Capri 1982/on
OE: 388664-S100
52794 100

Front Bumper Assembly Rivet, Steel Rivet
w/Steel Mandrel
1/4" Rivet Dia.
1/2" Head Dia.
1/2" Rivet Lgth.
1/8-1/4" G.R.
Bobcat, Pinto 1979/on
OE: 372820-S36, 372820-S40
52792 100

Rear Bumper Assembly Rivet, Steel Rivet
w/Steel Mandrel
1/4" Rivet Dia.
3/4" Head Dia.
1/2" Rivet Lgth.
1/8-1/4" G.R.
Ford Escort, Lynx 1981/on
OE: 388442-S100
52793 100

Attaches Sealer to Rear Window Rivet
Aluminum Rivet
w/Steel Mandrel
1/8" Rivet Dia.
5/16" Head Dia.
5/16" Rivet Lgth.
1/8-3/16" G.R.
GM 'X' Body 1981/on
OE: 20325696
527114 50

GM | Ford | Chrysler | Import | U/M UNIVERSAL & MISCELLANEOUS

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SPECIAL APPLICATION RIVETS

Illustrations are actual size unless otherwise noted.

Multi-Purpose Rivet Aluminum Rivet w/Steel Mandrel
1/8" Rivet Dia.
3/8" Head Dia.
3/8" Rivet Lgth.
1/8-3/16" G.R.
GM 1978/on
OE: 9432552
527111 50

General Purpose Rivet Steel Rivet w/Steel Mandrel
3/16" Rivet Dia.
3/8" Head Dia.
3/8" Rivet Lgth.
1/8-3/16" G.R.
GM
OE: 9439576
527112 50

Windshield Side Rail Rivet, Aluminum Rivet w/Aluminum Mandrel
1/8" Rivet Dia.
3/8" Head Dia.
5/16" Rivet Lgth.
1/16-1/8" G.R.
Ford Thunderbird, Cougar 1989/on
OE: N805759-S100
527115 50

Trunk Lock Swivel Emblem Rivet w/Countersunk Head Aluminum Rivet w/Steel Mandrel
5/32" Rivet Dia.
5/16" Head Dia.
5/16" Rivet Lgth.
1/8-3/16" G.R.
Chrysler & GM 1973/on
OE: 6032138, 9432137
527117 25

Moulding Attachment Leg Retention Style Rivet, Aluminum Rivet w/Aluminum Mandrel
3/16" Rivet Dia.
3/8" Head Dia.
13/16" Rivet Lgth.
5/64-15/64" G.R.
GM 'APV' Vans 1990/on
OE: 10125439
527110 25

Lincoln Wheel House Moulding Rivet Aluminum Rivet w/Aluminum Mandrel
3/16" Rivet Dia.
7/16" Head Dia.
13/16" Rivet Lgth.
5/64-15/64" G.R.
Ford 1989/on
527109 50

General Purpose Rivet Steel Rivet w/Steel Mandrel
3/16" Rivet Dia.
3/8" Head Dia.
1/2" Rivet Lgth.
1/8-1/4" G.R.
GM
OE: 9440392
527113 50

Rivet Black Nylon
7/32" (5.6mm) Dia.
7/64"-3/16" (2.5-4.8mm) G.R.
25/32" (20mm) Flange Dia.
BMW
OE: 51-71-7-002-953-2
724125 12

Nylon Blind Rivet Black
5/32" (3.96mm) Hole Dia.
5/16 x 19/32" (8 x 15mm) Head Dia.
15/64-13/32" (6-10.5mm) G.R.
Ford
OE: N804583-S
817114 25

Nylon Blind Rivet Black
1/4" (6.3mm) Hole Dia.
21/32" (16.5mm) Head Dia.
1/32-5/32" (.5-4mm) G.R.
Ford
OE: N804134-S
817117 25

Nylon Blind Rivet Black
1/4" (6.3mm) Hole Dia.
43/64" (17mm) Head Dia.
5/32-25/64" (4-10mm) G.R.
Ford
OE: N806296-S
817128 25

Nylon Blind Rivet, Black
17/64" (6.75mm) Hole Dia.
13/16" (20.5mm) Head Dia.
3/64-5/32" (1-4mm) G.R.
GM
OE: 10069112
817119 25

Nylon Blind Rivet Black
3/16" (4.75mm) Hole Dia.
11/32" (9mm) Head Dia.
1/16-11/64" (1.5-4.5mm) G.R.
GM
OE: 20612732
817121 25

Nylon Blind Rivet Black
3/16" (4.75mm) Hole Dia.
3/8" (9.5mm) Head Dia.
1/16-9/64" (1.5-3.5mm) G.R.
Ford
OE: N805132-S
817122 25

Nylon Blind Rivet Black
13/64" (5mm) Hole Dia.
15/32" (12mm) Head Dia.
1/16-11/64" (1.5-4.5mm) G.R.
Ford & GM
OE: N804189-S, 20423647
817105 25

Nylon Blind Rivet Black
13/64" (5mm) Hole Dia.
11/32" (9mm) Head Dia.
1/8-5/32" (3-4mm) G.R.
Chrysler & GM
OE: 6004212, 20465395
817120 25

Nylon Blind Rivet Black
13/64" (5mm) Hole Dia.
15/32" (12mm) Head Dia.
1/8-15/64" (3-6mm) G.R.
Chrysler, GM & VW
OE: 6500899, 20432975, 175-853-577
817106 25

Nylon Blind Rivet Black
13/64" (5mm) Hole Dia.
15/32" (12mm) Head Dia.
1/8-3/16" (3-4.75mm) G.R.
Chrysler
OE: 6500859
817107 25

Nylon Blind Rivet Black
15/64" (6mm) Hole Dia.
1/2" (12.5mm) Head Dia.
11/64-11/32" (4.5-8.5mm) G.R.
GM
OE: 25524005
817123 25

Nylon Blind Rivet Brown
15/64" (6mm) Hole Dia.
5/8" (16mm) Head Dia.
5/32-5/16" (4-8mm) G.R.
GM
OE: 10036503
817124 25

GM | Ford | Chrysler | Dodge | IMPORT | U/M UNIVERSAL & MISCELLANEOUS

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SPECIAL APPLICATION & MISCELLANEOUS RIVETS

Illustrations are actual size unless otherwise noted.

Nylon Blind Rivet
White
1/4" (6.3mm) Hole Dia.
21/32" (16.5mm) Head Dia.
5/32-13/32" (4-10.5mm) G.R.
GM
OE: 15506827
817129 25

Nylon Blind Rivet
Black
1/4" (6.3mm) Hole Dia.
1/2" (12.5mm) Head Dia.
5/32-13/32" (4-10.5mm) G.R.
Chrysler, Ford & GM
OE: 6501559, N803862-S, 20452072
817111 25

Nylon Blind Rivet
Black
1/4" (6.3mm) Hole Dia.
21/32" (16.5mm) Head Dia.
5/32-13/32" (4-10.5mm) G.R.
AMC, Chrysler, Ford & GM
OE: 8934-201-631, 6500911, N803043-S, 10463981
817110 25

Nylon Blind Rivet
Black
1/4" (6.3mm) Hole Dia.
21/32" (16.5mm) Head Dia.
19/64-27/64" (7.5-11mm) G.R.
Chrysler & Ford
OE: 4370138, N804675-S, N804759-S
817118 25

Nylon Blind Rivet
Black
17/64" (6.75mm) Hole Dia.
1/2" (12.5mm) Head Dia.
3/32-3/16" (2.5-4.75mm) G.R.
GM
OE: 15595172, 20421672
817112 25

Nylon Blind Rivet
Black
17/64" (6.75mm) Hole Dia.
23/32" (18mm) Head Dia.
3/32-3/16" (2.5-4.75mm) G.R.
GM & VW
OE: 20433026, 175-853-577A
817113 25

Nylon Blind Rivet
Black
9/32" (7mm) Hole Dia.
23/32" (18mm) Head Dia.
3/32-15/64" (2.5-6mm) G.R.
GM
OE: 10109689, 12337915
817130 25

Belt Moulding Blind Rivet
Black Aluminum Rivet w/Steel Mandrel
M3.2 (0.126") Rivet
9.5mm (0.374") Flange
3.2-4.75mm (.126-.187") G.R.
8.5mm (.335") Lgth.
Ford Mustang 1994/on
OE: N808376-S417
723347 50

Moulding Blind Rivet
Black Aluminum Rivet w/Steel Mandrel & Plastic Seal
M4 Hole, M3.2 Rivet
8mm Flange
1-4.75mm G.R.
Toyota Landcruiser 1998/on
OE: 90269-04053
723128 5

Bumper, Wheel Opening & Roof Rack Leg Retention Style Blind Rivet
Aluminum Rivet w/Aluminum Mandrel
5/32" (M4) Rivet
5/16" (8mm) Flange
.040-.275" (1.0-7.5mm) G.R.
Lincoln 1994/on
GM 'W' Bodies & 'S' & 'T' Trucks 1998/on
Jeep Grand Cherokee
OE: 10131511, N807620-S100, 6034212
723182 12

Rear Bumper Blind Rivet
Aluminum Rivet w/Aluminum Mandrel
5/32" (M4) Rivet
0.325" (8.25mm) Flange
0.187-0.472" (5-12mm) G.R.
GM 'F' Body 1993/on
OE: 12531204
724012 12

Front & Rear Door Window Moulding Closed End Sealing Type Rivet, Aluminum Rivet w/Aluminum Mandrel
M4 Rivet
7.9mm Flange
1.6-6.3mm G.R.
Toyota Camry 1997/on
OE: 90084-26002
723117 25

Side Door Attachment Peel Type Rivet
Black Aluminum Rivet w/Zinc Steel Mandrel
3/16" Rivet, 1/2" Flange
1/32-1/4" G.R.
Ford 'F' Series Pick-Up Trucks 1997/on
Merc. Villager 1995/on
OE: W525170-S417
720501 12

Front Bumper Impact Absorber Blind Rivet
Black Aluminum Rivet w/Aluminum Mandrel
5/32" Rivet
7/16" Flange
0.040-0.250" G.R.
Chrysler 1999/on
Universal
OE: 6036148AA
723388 7

Bumper & Wheel Housing Rivet, Aluminum Rivet w/Aluminum Mandrel Black Polyethylene Coating
5/32" (4mm) Rivet
15/32" (12mm) Flange
1/8-11/32" (3-8.5mm) G.R.
1993/on Volvo
OE: 979878-6
720525 7

Door Handle Dome Rivet
Black Steel Rivet w/Aluminum Mandrel
3/16" Rivet
3/8" Head Dia.
.0625-.207" G.R.
GM 'J' & 'K' Bodies 1994/on
OE: 22585836, 22641917
720667 12

Bumper & Impact Absorber Blind Rivet
Steel Rivet w/Steel Mandrel
3/16" (M4.8) Rivet
5/8" (15.9mm) Flange
.251-.375" (6.4-9.5mm) G.R.
GM 'J' & 'N' Body 1995/on
Saturn 'S' Series 1996/on
OE: 9433186
724013 25

Windshield Side Moulding Closed End Sealing Type Rivet
Aluminum Rivet w/Aluminum Mandrel
5mm Rivet
9.5mm Flange
3.2-6.3mm G.R.
Toy. Camry 1997/on
OE: 90084-26001
720771 25

GM | Ford | | | IMPORT | U/M UNIVERSAL & MISCELLANEOUS

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MISCELLANEOUS RIVETS

Illustrations are actual size unless otherwise noted.

Door Window Regulator Peel Style Blind Rivet
Steel Rivet w/Steel Mandrel
1/4" (M6.3) Rivet
1/2" (12.7mm) Flange
.126-.250"
(3.2-6.3mm) G.R.
GM 'E', 'F', 'G', 'K' & APV Models 1990/on
OE: 2024778
723202 12

Window Regulator Peel Type Blind Rivet
Aluminum Rivet w/Steel Mandrel
1/4" Rivet
1/2" Flange
.188-.250" G.R.
Saturn 1993/on
OE: 9437643
723019 12

Closed End Sealing Type Blind Rivet
Black Aluminum Rivet Steel Mandrel
3/16" (M5) Dia.
3/8" (9.5mm) Flange
0.126-0.248"
(3.2-6.3mm) G.R.
General Purpose
724186 25

Door Lock Actuator Peel Type Rivet
Black Aluminum Rivet w/Aluminum Mandrel
1/4" Dia., 3/4" Flange
1/8-21/64" G.R.
Continental, Cr. Vict., 'F' Ser. Truck, Grand Marq., Mark VII, Mustang, Ranger, Sable, Taurus, Town Car & Windstar 1995/on
OE: N808689-S417
720531 5

Headlight Retainer Rivet
Zinc Steel Rivet w/Zinc Steel Mandrel
1/4" Dia.
19/32" Flange
13/32" Shoulder Dia.
3/64-5/64" G.R.
GM Jimmy, Blazer & Bravada 1998/on
OE: 15022087
720677 7

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OEM to PART NUMBER INTERCHANGE

OEM Number	Part Number	Page Number	OEM Number	Part Number	Page Number	OEM Number	Part Number	Page Number
000-904-24-45	716804	J10-35	10169777	720379	J10-16	11503736	717493	J10-51
000-994-04-45	716805	J10-35	10283414	720580	J10-13	11503800	723276	J10-43
000-994-06-45	716809	J10-36	10287971	716344	J10-21	11503823	717467	J10-48
000-994-09-45	716811	J10-36	10301966	723031	J10-24	11503834	720184	J10-48
000-994-14-45	716807	J10-36	10305191	724153	J10-20	11503892	717451	J10-43
000-994-50-45	716812	J10-36	10363811	723364	J10-27	11503957	718261	J10-35
004005791	52727	J10-60	10405030	720580	J10-13	11504035	717266	J10-34
01281-00022	716795	J10-33	10425306	723031	J10-24	11504119	503159	J10-36
01281-00028	716864	J10-33	10431761	720943	J10-37	11504303	717460	J10-47
01281-00151	716848	J10-33	10998-30880	718711	J10-27	11504492	720192	J10-47
01281-00161	716848	J10-33	11296-AG000	724027	J10-22	11504493	717468	J10-48
01281-00831	724030	J10-33	11500402	720170	J10-48	11504499	720143	J10-47
01553-00051	717610	J10-20	11500434	717451	J10-43	11504531	720217	J10-36
01553-00172	717620	J10-13	11500657	720316	J10-34	11504570	717459	J10-47
01553-01182	724028	J10-16	11500658	717481	J10-34	11505022	723356	J10-43
01553-01251	716327	J10-20	11500660	717271	J10-35	11505023	723355	J10-43
01553-03101	718713	J10-27	11500661	717482	J10-35	11505044	720187	J10-48
01553-09241	720796	J10-23	11500662	717483	J10-35	11505045	718942	J10-43
01553-09321	720637	J10-23	11500754	717470	J10-48	11505773	718807	J10-63
01553-09611	723186	J10-26	11500961	717263	J10-47	11505816	720151	J10-47
01553-S3500	716308	J10-21	11500969	717268	J10-47	11506174	717467	J10-48
01651-00481	716857	J10-33	11500970	717472	J10-47	11508241	717262	J10-34
0711-9-916-945	716807	J10-36	11500996	723355	J10-43	11508248	716819	J10-36
0712-9-925-706	716802	J10-35	11501102	717473	J10-48	11509096	720193	J10-48
0712-9-925-708	716804	J10-35	11501105	720188	J10-48	11509153	718809	J10-63
0712-9-925-720	716810	J10-36	11501184	717264	J10-48	11509511	717269	J10-47
0712-9-925-730	716812	J10-36	11501188	717474	J10-48	11509816	717459	J10-47
0712-9-925-737	716809	J10-36	11501193	717272	J10-48	11514623	717459	J10-47
10009923	503157	J10-36	11501849	503158	J10-36	11516150	717482	J10-35
10018611	716861	J10-37	11501884	724600	J10-44	11516372	723204	J10-34
10036503	817124	J10-61	11501932	717485	J10-50	11517824	723013	J10-23
10037786	720194	J10-47	11502449	717450	J10-43	11518017	723309	J10-25
10051034	716119	J10-13	11502540	720327	J10-50	11518357	723300	J10-37
10053182	718721	J10-28	11502605	717269	J10-47	11519030	723358	J10-19
10069112	817119	J10-61	11502607	720141	J10-47	11519807	724116	J10-19
10073833	718657	J10-37	11502617	717271	J10-35	11561368	724140	J10-26
10082036	720137	J10-47	11502624	717269	J10-47	11561878	724603	J10-28
10082553	720335	J10-25	11502630	716223	J10-63	11588650	724232	J10-37
10109689	817130	J10-62	11502785	717266	J10-34	11588863	724188	J10-21
10114597	716119	J10-13	11502941	717467	J10-48	11589289	724205	J10-25
10116-41810	718736	J10-24	11503289	716222	J10-63	11589290	724138	J10-25
10120517	718811	J10-63	11503317	717482	J10-35	11589291	724206	J10-25
10125439	527110	J10-61	11503499	718959	J10-44	11589292	724208	J10-25
10130851	720140	J10-47	11503564	717483	J10-35	11589293	724139	J10-26
10131511	723182	J10-62	11503619	717473	J10-48	11589294	724209	J10-26
10139822	720669	J10-27	11503633	720190	J10-48	11589295	724210	J10-26
10140480	720334	J10-27	11503685	717266	J10-34	11589296	724211	J10-26
10155743	718811	J10-63	11503698	717494	J10-51	11609417	724109	J10-26
10157547	527105	J10-60	11503702	720189	J10-47	12160858	723304	J10-37
10157900	720333	J10-25	11503715	717262	J10-34	12337868	717718	J10-30
1016937	724602	J10-35	11503719	717261	J10-34	12337915	817130	J10-62

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OEM to PART NUMBER INTERCHANGE

OEM Number	Part Number	Page Number
12337920	716336	J10-21
12338011	716119	J10-13
12338015	717256	J10-31
12338074	717363	J10-31
12338153	52729	J10-60
123-994-08-45	724094	J10-36
12531204	724012	J10-62
1318908-9	723155	J10-33
1395-68-676	718715	J10-27
14007940	716776	J10-51
14013246	718604	J10-32
14015161	718743	J10-23
14015876	716820	J10-35
14019205	718730	J10-24
14019206	718730	J10-24
14019226	718739	J10-24
14027471	718627	J10-19
14032200	718742	J10-23
14039420	718740	J10-23
14044215	718670	J10-34
14045480	718662	J10-24
14051674	717719	J10-30
14063981	817110	J10-62
14066728	717256	J10-31
14071289	718739	J10-24
14074081	716351	J10-19
14078435	52791	J10-60
14090382	718932	J10-43
14093088	718423	J10-25
14101262	718734	J10-24
1480627	720237	J10-35
1494252	720237	J10-35
15022087	720677	J10-63
15056810	723024	J10-18
15153415	720586	J10-25
15296830	724207	J10-25
15506827	817129	J10-62
15562609	717364	J10-31
15588024	716301	J10-37
15591860	717397	J10-31
15594416	716302	J10-17
15595172	817112	J10-62
15596301	716301	J10-37
15600382	718657	J10-37
15653790	720999	J10-31
15672183	720998	J10-31
15679091	718718	J10-28
15681408	718733	J10-24
15691493	717363	J10-31
15691595	717397	J10-31
15733971	721034	J10-19
15748479	723029	J10-37
15958694	717130	J10-17
15960325	724129	J10-26
15960621	720585	J10-25
15964971	717363	J10-31
15964972	717364	J10-31
15967691	717397	J10-31
15969147	724133	J10-26
15975244	720371	J10-18
15993201	720333	J10-25
15994165	723308	J10-25
1605396	717130	J10-17
1619321	718618	J10-17
1631564	716309	J10-18
1633999	718725	J10-27
1636632	718729	J10-25
16500283	718647	J10-37
1651249	716225	J10-63
16514113	723025	J10-24
16629990	721051	J10-30
16632192	717364	J10-31
16632193	717363	J10-31
16675980	721051	J10-30
1689827	717182	J10-44
1690410	718656	J10-19
1699250	716320	J10-18
1703731	717495	J10-51
1746408	718813	J10-63
1758099	516259	J10-37
175-853-577	817106	J10-61
175-853-577A	817113	J10-62
175-853-695A	718743	J10-23
175-867-299	716357	J10-21
20003056	723212	J10-38
20008798	717715	J10-30
20008799	717714	J10-30
20030401	718616	J10-21
20032850	716333	J10-16
20064875	718615	J10-21
20083312	720186	J10-47
20123070	716101	J10-13
20158344	717716	J10-30
20184399	52729	J10-60
2024778	723202	J10-63
20319841	718654	J10-18
20325696	527114	J10-60
20328600	716101	J10-13
20351035	720184	J10-48
20374473	716336	J10-21
20421672	817112	J10-62
20421800	718657	J10-37
20423550	716219	J10-63
20423647	817105	J10-61
20429451	716338	J10-21
20429500	717238	J10-31
20430421	716356	J10-19
20432975	817106	J10-61
20433026	817113	J10-62
20451119	718672	J10-28
20451401	716317	J10-21
20452072	817111	J10-62
20455900	716303	J10-19
20465395	817120	J10-61
20480475	716342	J10-21
20490398	716822	J10-35
20510029	718679	J10-24
20514862	716322	J10-18
20582532	716647	J10-30
20585900	720152	J10-47
20612732	817121	J10-61
20633148	716647	J10-30
2064891	52616	J10-21
20687704	718729	J10-25
20699808	716424	J10-16
20709017	720372	J10-16
20-72-175	716811/2	J10-36
20713843	527101	J10-60
20729523	720373	J10-16
21030249	724133	J10-26
21035345	723013	J10-23
21042958	716337	J10-20
21075686	724603	J10-28
21077123	720917	J10-25
21094146	720377	J10-17
21095797	724116	J10-19
22189414	723196	J10-17
22512276	716323	J10-17
22531616	717483	J10-35
22535007	718744	J10-25
22538004	720025	J10-28
22585836	720667	J10-62
22641917	720667	J10-62
22699649	723364	J10-27
22704458	723364	J10-27
22713392	723364	J10-27
22722859	723364	J10-27
22722860	723364	J10-27
24501057	724237	J10-17
25016383	716316	J10-16
2524525	717167	J10-33
25517947	718671	J10-19
25524005	817123	J10-61

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OEM to PART NUMBER INTERCHANGE

OEM Number	Part Number	Page Number	OEM Number	Part Number	Page Number	OEM Number	Part Number	Page Number
25631448	720754	J10-44	386553-S	717319	J10-22	5116530AA	724207	J10-25
25648693	723017	J10-40	387258-S	716333	J10-16	51717-002-953-2	724125	J10-61
25680782	720669	J10-27	387477-S	717214	J10-20	5208743	716313	J10-18
25691949	723180	J10-40	387496-S	718430	J10-21	52161-20010	724451	J10-26
25704001	723180	J10-40	387843-S	718728	J10-24	53879-60010	724203	J10-26
25732397	724146	J10-44	388020-S47	716228	J10-63	5482103	724111	J10-20
2964547	720382	J10-13	388020-S47X	716222	J10-63	55350747AB	720961	J10-26
3065575	717163	J10-21	388047-S100	52791	J10-60	55799-12010	720938	J10-34
3071437	717469	J10-47	388047-S102	527103	J10-60	57030-S2	50607	J10-48
3078511	717320	J10-21	388442-S100	52793	J10-60	57032-S36	718897	J10-48
3081052	717713	J10-30	388499-S	716318	J10-20	57039-S2	718919	J10-48
321519BS	717718	J10-30	388577-S	717130	J10-17	57041-S2	718922	J10-48
332364	716319	J10-16	388664-S100	52794	J10-60	57048-S2	718926	J10-48
34201287	720182	J10-47	388904-S	720059	J10-16	57472-S2	718894	J10-48
34201621	718730	J10-24	388908-S	716325	J10-22	588546	717103	J10-44
34202335	720374	J10-16	388930-S	716321	J10-18	5973400	718644	J10-24
34202672	718679	J10-24	389144-S	718415	J10-20	5973823	718645	J10-24
34301-692A-0000	716870	J10-32	389268-S100	52729	J10-60	5973996	718646	J10-24
3454220	717707	J10-30	389358	716319	J10-16	5GUU9K11BA	724210	J10-26
3454221	717708	J10-30	389443-S	716349	J10-17	6000720	516259	J10-37
363137	716315	J10-21	390017-S2	716219	J10-63	6000943	717322	J10-32
365718	717471	J10-48	390523-S	716644	J10-40	6003349	718230	J10-21
367291	717034	J10-52	3907444	702559	J10-41	6003351	717131	J10-21
367292	717033	J10-52	3977775	717320	J10-21	6004212	817120	J10-61
3691590	716319	J10-16	3998009	717718	J10-30	6010046	516259	J10-37
372820-S36	52792	J10-60	400141	718899	J10-42	6027958	720556	J10-42
372820-S40	52792	J10-60	4004569	716319	J10-16	6030441	717130	J10-17
3744999	516259	J10-37	4005091	718840	J10-63	6031091	52728	J10-60
375373-S	716311	J10-22	4005470	718230	J10-21	6031115	52727	J10-60
3760130	717709	J10-30	4005513	717131	J10-21	6031321	716319	J10-16
3760131	717710	J10-30	4005540	716409	J10-12	6031383	718738	J10-23
3783006	702555	J10-41	4006529	716313	J10-18	6031390	718728	J10-24
378668	717716	J10-30	411700	716339	J10-19	6032138	527117	J10-61
379830-S	717149	J10-32	4234830	717719	J10-30	6032235	718228	J10-37
380382	718899	J10-42	4341060	716314	J10-22	6032363	718230	J10-21
380707-S	702563	J10-41	4370138	817118	J10-62	6032516	716635	J10-41
381801-S2	716219	J10-63	4381395	716350	J10-17	6032832	718227	J10-22
381863-S2	720217	J10-36	4533699	717219	J10-12	6032926	527102	J10-60
383033-S101	717216	J10-38	4658673	720375	J10-16	6034212	723182	J10-62
383035-S100	717215	J10-38	4676356	720523	J10-37	6036007AA	717130	J10-17
383142-S	718912	J10-23	469716	717713	J10-30	6036148AA	723388	J10-62
384930-S36	718920	J10-48	469718	717716	J10-30	6100539	720157	J10-48
384939-S47	716221	J10-63	4717224	720925	J10-17	6100566	720164	J10-48
385188-S	718400	J10-21	472434	718728	J10-24	6100567	717463	J10-48
385189-S100	52727	J10-60	4755299	702559	J10-41	6100568	717464	J10-48
385323-S100	52728	J10-60	480534	718728	J10-24	6101283	717271	J10-35
385330-S	717131	J10-21	4876498	717212	J10-13	62319-0W000	723096	J10-33
385595-S	717319	J10-22	4878883AA	720907	J10-22	63844-01A00	718723	J10-27
385661-S	718230	J10-21	5023111AA	720933	J10-22	63844-01A99	718672	J10-28
385677	720499	J10-12	5023173AA	723336	J10-23	63848-40Y00	723381	J10-27
3861577	716333	J10-16	51161-881-149	723109	J10-23	63848-9E001	723295	J10-26

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OEM to PART NUMBER INTERCHANGE

OEM Number	Part Number	Page Number	OEM Number	Part Number	Page Number	OEM Number	Part Number	Page Number
63876-95596	718722	. . .J10-27	67867-0C010	720965	. . .J10-12	90189-06214	720987	. . .J10-34
63878-01E10	723203	. . .J10-28	67867-12150	720965	. . .J10-12	90269-04053	723128	. . .J10-62
6500859	817107	. . .J10-61	67868-02020	720965	. . .J10-12	90467-05096-22	720508	. . .J10-17
6500899	817106	. . .J10-61	68425-H5000	716794	. . .J10-44	90467-06017-20	718720	. . .J10-27
6500911	817110	. . .J10-62	74798-S9000	716857	. . .J10-33	90467-06054	717612	. . .J10-24
6501067	718226	. . .J10-17	75305-S0A-003	724147	. . .J10-37	90467-07050	717620	. . .J10-13
6501086	716350	. . .J10-17	75521-611-0000	716790	. . .J10-32	90467-07085	723126	. . .J10-23
6501178	716897	. . .J10-51	75522-611-0000	717611	. . .J10-32	90467-07117	720627	. . .J10-23
6501301	720377	. . .J10-17	76906-T3000	716330	. . .J10-19	90467-07146	721033	. . .J10-22
6501559	817111	. . .J10-62	7693140	717223	. . .J10-12	90467-07164	723119	. . .J10-24
6501590	718427	. . .J10-25	7698976	717222	. . .J10-12	90467-07166	720785	. . .J10-22
6501948	720927	. . .J10-17	78856-R4301	716856	. . .J10-34	90467-07168	723317	. . .J10-28
6502078	717130	. . .J10-17	790184000	716848	. . .J10-33	90467-07195	723191	. . .J10-26
6502104	720384	. . .J10-18	800737-S	718409	. . .J10-19	90467-07201	724461	. . .J10-26
6502328	716424	. . .J10-16	80832 6500	716328	. . .J10-12	90467-08004	716329	. . .J10-19
6502625	720334	. . .J10-27	80833 8500	716328	. . .J10-12	90467-08011	716329	. . .J10-19
6502871	718716	. . .J10-27	80874-0P000	723385	. . .J10-34	90467-08185	723186	. . .J10-26
6503204	720733	. . .J10-22	80915-29A66	718715	. . .J10-27	90467-08186	723104	. . .J10-16
6503221	716323	. . .J10-17	84915-0W000	720966	. . .J10-20	90467-09050	720632	. . .J10-22
6503401	720754	. . .J10-44	86593-24000	724197	. . .J10-37	90467-09096	720386	. . .J10-24
6503454	720609	. . .J10-24	8717859	717226	. . .J10-12	90467-09101	720550	. . .J10-37
6503819	720754	. . .J10-44	8736586	717223	. . .J10-12	90467-09127	720629	. . .J10-27
6504043	720380	. . .J10-17	8736591	717222	. . .J10-12	90467-09139	720548	. . .J10-22
6504072	720981	. . .J10-33	88891731	717397	. . .J10-31	90467-09143	720794	. . .J10-27
6504452	720739	. . .J10-22	88970494	723317	. . .J10-28	90467-09145	720795	. . .J10-27
6504521	720608	. . .J10-25	88970747	720632	. . .J10-22	90467-09206	723250	. . .J10-38
6505292AA	720741	. . .J10-22	88970767	723368	. . .J10-23	90467-10107	720786	. . .J10-13
6505417AA	720922	. . .J10-17	8934-201-263	717322	. . .J10-32	90467-10183	723368	. . .J10-23
6505539-AA	721036	. . .J10-20	8934201287	720182	. . .J10-47	90467-10188	724053	. . .J10-20
6505686AA	723024	. . .J10-18	8934-201-621	718730	. . .J10-24	90467-11005	716330	. . .J10-19
6505759AA	723212	. . .J10-38	8934-201-631	817110	. . .J10-62	90467-A0008	724134	. . .J10-18
6505918AA	723213	. . .J10-38	8934-201-681	716357	. . .J10-21	90505-SX0-003	720549	. . .J10-23
6506109AA	723337	. . .J10-40	894-226-4920	717616	. . .J10-20	90656-671-6310M1	716798	. . .J10-32
6506132-AA	723260	. . .J10-25	894-243-1900	718715	. . .J10-27	90657-SA6-0030	718720	. . .J10-27
6506293AA	723338	. . .J10-18	894-298-1190	718711	. . .J10-27	90657-SB0-003	723091	. . .J10-23
6507055AA	724005	. . .J10-20	90084-26001	720771	. . .J10-62	90661-SC7-003	716857	. . .J10-33
6507686AA	724005	. . .J10-20	90084-26002	723117	. . .J10-62	90662-671-0030	716794	. . .J10-44
6508712AA	724140	. . .J10-26	90107-SX0-003	720982	. . .J10-33	90662-693-003	716855	. . .J10-33
6508863AA	724205	. . .J10-25	90114-SE0-000	723088	. . .J10-44	90664 671 0030	716328	. . .J10-12
65810-K2009	720967	. . .J10-19	90189-04007	716867	. . .J10-33	90668-688-0030	716858	. . .J10-32
65832-F5000	716326	. . .J10-37	90189-04066	716855	. . .J10-33	90668-SB0-003	718712	. . .J10-27
65846-30F00	716326	. . .J10-37	90189-05013	716793	. . .J10-32	90672-671-811	716848	. . .J10-33
66814-01G00	718727	. . .J10-23	90189-06001	716864	. . .J10-33	90675-SA6-0030	716852	. . .J10-33
66860-01W01	718710	. . .J10-27	90189-06003	716845	. . .J10-33	90675-SB3-003	718722	. . .J10-27
67771-01010	716343	. . .J10-20	90189-06010	716790	. . .J10-32	90677-SE0-003	717646	. . .J10-32
67771-06070	720546	. . .J10-20	90189-06013	716846	. . .J10-33	90683-693-0000	716856	. . .J10-34
67771-12010F	717616	. . .J10-20	90189-06028	720630	. . .J1034	90683-SA5-003	720507	. . .J10-27
67771-12050	720807	. . .J10-19	90189-06042	716857	. . .J10-33	90684-SA5-003	718711	. . .J10-27
67771-22010	716679	. . .J10-20	90189-06065	716846	. . .J10-33	914031-00-4305	718952	. . .J10-43
67771-22020	716680	. . .J10-20	90189-06104	720985	. . .J10-33	91500-SM4-999AH	718910	. . .J10-43
67771-30090	720776	. . .J10-19	90189-06157	720986	. . .J10-34	91501-S04-003	720767	. . .J10-22

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OEM to PART NUMBER INTERCHANGE

OEM Number	Part Number	Page Number
91501-SL4-003	720539	J10-22
91503-S0K-A01	723374	J10-23
91503-SZ3-003	720620	J10-23
91503-SZ5-003	720619	J10-23
91505-S9A-003	724604	J10-28
91512-SX0-003	720901	J10-23
91515-SR3-000	720536	J10-13
91518-S10-003	721016	J10-22
91518-SM4-003	720762	J10-22
91530-ST5-003	720766	J10-12
91560-SM4-003	724019	J10-20
91570-SK7-003ZF	721032	J10-24
93904-46320	718910	J10-43
94051993	718710	J10-27
94198687	718720	J10-27
9423101	723028	J10-42
9428196	716224	J10-44
9431530	720216	J10-36
9431911	717522	J10-62
9432137	527117	J10-61
9432552	527111	J10-61
9433056	720223	J10-35
9433155	720217	J10-36
9433156	720218	J10-36
9433186	724013	J10-62
9436175	52727	J10-60
9437486	527102	J10-60
9437643	723019	J10-63
9437938	52728	J10-60
9439576	527112	J10-61
9439719	527108	J10-60
9440392	527113	J10-61
946-418	716811	J10-36
94841764	716793	J10-32
94842841	716329	J10-19
94849113	716329	J10-19
94853733	720550	J10-37
94854203	720630	J10-34
94858509	720632	J10-22
95005064	716343	J10-20
95008221	720807	J10-19
9616231	716221	J10-63
96706-89901	716850	J10-32
96706-H9400	716848	J10-33
96706-K1300	716848	J10-33
96706-K1351	716848	J10-33
96706-P0105	716790	J10-32
96706-W1000	716846	J10-33
9685057	718230	J10-21
9711304	717718	J10-30
9721917	717166	J10-31
9731301	716409	J10-12
97606-B0700	717611	J10-32
979878-6	720525	J10-62
9818648	52616	J10-21
9854717	717226	J10-12
9883583	52616	J10-21
9924-90-512B	716672	J10-16
9926-50-635	718715	J10-27
9927-40-821	716681	J10-21
9927-40-825	717616	J10-20
9991-00-402	716850	J10-32
9991-00-403	716839	J10-44
9991-00-412	717611	J10-32
9991-00-501	716792	J10-32
9991-00-503	716794	J10-33
9991-00-601	716790	J10-32
BC1D-56-145	723209	J10-28
BF67-50-033	718726	J10-28
BO92-51-833	724117	J10-28
C5AB-6220586A	717211	J10-13
D1AZ-6522841A	717166	J10-31
D30Z-16776-A	717131	J10-21
D5ZZ-16828A/B	717183	J10-30
D90Z-6522841A	717387	J10-31
D9ZZ-6643030-AA	721055	J10-31
E3DZ-14A163A	718730	J10-24
E3SZ-6342413A	718425	J10-12
E6AZ-5421952-A	716644	J10-30
E6DZ-5421952-A	716643	J10-30
E7GZ-17A904-B	718726	J10-28
E83Z-5421952-B	716643	J10-30
F22Z-16774-A	716331	J10-16
F3LY-14570-B	724603	J10-28
FB01-56-964	718722	J10-27
G030-68-885B38	716331	J10-16
G350-68-AB1	723205	J10-22
GA2A-56-694	716331	J10-16
GA2A-58-762	720537	J10-12
GD7A-50-EA1	724122	J10-26
H001-50-841	716857	J10-33
KA78-50-AF4	720989	J10-33
MBF67-50-033	718726	J10-28
MB-098145	716864	J10-33
MB106212	716848	J10-33
MB-178894	717608	J10-20
MG350-68AB1	723205	J10-22
MR200300	723208	J10-26
MR328954	720637	J10-23
MR478262	723207	J10-24
MR478263	723206	J10-38
MS-480001	717611	J10-32
MS-480002	716793	J10-32
MS-480012	716857	J10-33
MU000319	720901	J10-23
N09-280305	716335	J10-18
N15.422.2	716803	J10-35
N15.456.1	716812	J10-36
N304-13-356-A	718720	J10-27
N-606675-S2	720158	J10-48
N606676-S2	720164	J10-48
N606676-S36	717479	J10-48
N-606676-S53B	702565	J10-43
N606677-S	720165	J10-48
N606677-S36	721076	J10-48
N606689-S2	720171	J10-48
N606690-S2	720172	J10-48
N623332-S2	724602	J10-35
N623332-S53	724602	J10-35
N623332-S100	724602	J10-35
N623333-S2	717271	J10-35
N623343-S2	717482	J10-35
N623343-S100	717482	J10-35
N800369	716633	J10-42
N800369-S2	718907	J10-42
N-800387-S	716335	J10-18
N800854-S	717261	J10-34
N80101994S	720378	J10-18
N801603-S2	723294	J10-44
N-801925	718422	J10-20
N801994-S100	721007	J10-17
N802734-S	716305/6	J10-17
N802737-S	718429	J10-28
N802781-S	718423	J10-25
N-802900	716337	J10-20
N803043-S	817110	J10-62
N803170-S	716304	J10-16
N803362-S	718679	J10-24
N803421-S	718427	J10-25
N803494-S	718718	J10-28
N803709-S	718733	J10-24
N803716-S	718732	J10-25
N-803857-S	716310	J10-19
N803862-S	817111	J10-62
N803946-S	718716	J10-27
N804134-S	817117	J10-61
N804189-S	817105	J10-61
N-804349-S	716312	J10-18
N804379S	716309	J10-18
N804583-S	817114	J10-61
N804674-S	718737	J10-25
N804675-S	817118	J10-62
N804759-S	817118	J10-62

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OEM INTERCHANGE by MANUFACTURER

OEM Number	Part Number	Page Number
N804837-S	718717	J10-28
N804851-S100	527118	J10-60
N805132-S	817122	J10-61
N805759-S100	527115	J10-61
N806296-S	817128	J10-61
N806340-S	720934	J10-12
N806344-S	723346	J10-19
N807620-S100	723182	J10-62
N807721-S	720380	J10-17
N808147-S	720669	J10-27
N808370-S	720383	J10-18
N808376-S417	723347	J10-62
N808689-S417	720531	J10-63
N90282401	716307	J10-17
N98905101	718230	J10-21
NA01-56145	718723	J10-27
W525170-S417	720501	J10-62
W701855-S300	723056	J10-18
W703505-S301	723048	J10-36
W705845-S300	724117	J10-28
W705956-S300	723176	J10-23
W705957-S300	723177	J10-26
W706519-S300	723177	J10-26
W706713-S300	723059	J10-28
W708035-S300	723285	J10-18
W708530-S300	723309	J10-25
W709002-S	723349	J10-18
W712196-S300	724139	J10-26
W712665-S300	724210	J10-26
W713331-S300	724206	J10-35
YS4Z-13N129-AA	723049	J10-33
YS4Z-16K262-AA	723047	J10-28
Acura		
91501-SL4-003	720539	J10-22
AMC		
004005791	52727	J10-60
400141	718899	J10-42
4004569	716319	J10-16
4005470	718230	J10-21
4005513	717131	J10-21
4005540	716409	J10-12
4006529	716313	J10-18
8934-201-263	717322	J10-32
8934201287	720182	J10-47
8934-201-621	718730	J10-24
8934-201-631	817110	J10-62
8934-201-681	716357	J10-21
BMW		
0711-9-916-945	716807	J10-36
0712-9-925-706	716802	J10-35
0712-9-925-708	716804	J10-35
0712-9-925-720	716810	J10-36
0712-9-925-730	716812	J10-36
0712-9-925-737	716809	J10-36
51161-881-149	723109	J10-23
51-71-7-002-953-2	724125	J10-61
Chrysler		
1758099	516259	J10-37
2524525	717167	J10-33
2964547	720382	J10-13
34201287	720182	J10-47
34201621	718730	J10-24
34202335	720374	J10-16
34202672	718679	J10-24
3454220	717707	J10-30
3454221	717708	J10-30
3691590	716319	J10-16
3760130	717709	J10-30
3760131	717710	J10-30
3861577	716333	J10-16
4005091	718840	J10-63
4341060	716314	J10-22
4370138	817118	J10-62
4381395	716350	J10-17
4658673	720375	J10-16
4676356	720523	J10-37
4717224	720925	J10-17
4878883AA	720907	J10-22
5023111AA	720933	J10-22
5023173AA	723336	J10-23
5116530AA	724207	J10-25
5208743	716313	J10-18
55350747AB	720961	J10-26
5GUU9K11BA	724210	J10-26
6000720	516259	J10-37
6000943	717322	J10-32
6003349	718230	J10-21
6003351	717131	J10-21
6004212	817120	J10-61
6010046	516259	J10-37
6027958	720556	J10-42
6030441	717130	J10-17
6031091	52728	J10-60
6031115	52727	J10-60
6031321	716319	J10-16
6031383	718738	J10-23
6031390	718728	J10-24
6032138	527117	J10-61
6032235	718228	J10-37
6032363	718230	J10-21
6032516	716635	J10-41
6032832	718227	J10-22
6032926	527102	J10-60
6034212	723182	J10-62
6036007AA	717130	J10-17
6036148AA	723388	J10-62
6100539	720157	J10-48
6100566	720164	J10-48
6100567	717463	J10-48
6100568	717464	J10-48
6101283	717271	J10-35
6500859	817107	J10-61
6500899	817106	J10-61
6500911	817110	J10-62
6501067	718226	J10-17
6501086	716350	J10-17
6501178	716897	J10-51
6501301	720377	J10-17
6501559	817111	J10-62
6501590	718427	J10-25
6501948	720927	J10-17
6502078	717130	J10-17
6502104	720384	J10-18
6502328	716424	J10-16
6502871	718716	J10-27
6503204	720733	J10-22
6503221	716323	J10-17
6503401	720754	J10-44
6503454	720609	J10-24
6503819	720754	J10-44
6504043	720380	J10-17
6504072	720981	J10-33
6504452	720739	J10-22
6504521	720608	J10-25
6505417AA	720922	J10-17
6505539-AA	721036	J10-20
6505686AA	723024	J10-18
6505759AA	723212	J10-38
6505918AA	723213	J10-38
6506109AA	723337	J10-40
6506132-AA	723260	J10-25
6505292AA	720741	J10-22
6506293AA	723338	J10-18
6507055AA	724005	J10-20
6507686AA	724005	J10-20
6508712AA	724140	J10-26
6508863AA	724205	J10-25
Ford		
372820-S36	52792	J10-60
372820-S40	52792	J10-60
375373-S	716311	J10-22
379830-S	717149	J10-32
380707-S	702563	J10-41

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OEM INTERCHANGE by MANUFACTURER

OEM Number	Part Number	Page Number
Ford (cont'd)		
381801-S2	716219	J10-63
381863-S2	720217	J10-36
383033-S101	717216	J10-38
383035-S100	717215	J10-38
383142-S	718912	J10-23
384930-S36	718920	J10-48
384939-S47	716221	J10-63
385188-S	718400	J10-21
385189-S100	52727	J10-60
385323-S100	52728	J10-60
385330-S	717131	J10-21
385595-S	717319	J10-22
385661-S	718230	J10-21
385677	720499	J10-12
386553-S	717319	J10-22
387258-S	716333	J10-16
387477-S	717214	J10-20
387496-S	718430	J10-21
387843-S	718728	J10-24
388020-S47	716228	J10-63
388020-S47X	716222	J10-63
388047-S100	52791	J10-60
388047-S102	527103	J10-60
388442-S100	52793	J10-60
388499-S	716318	J10-20
388577-S	717130	J10-17
388664-S100	52794	J10-60
388904-S	720059	J10-16
388908-S	716325	J10-22
388930-S	716321	J10-18
389144-S	718415	J10-20
389268-S100	52729	J10-60
389358	716319	J10-16
389443-S	716349	J10-17
390017-S2	716219	J10-63
390523-S	716644	J10-30
57030-S2	50607	J10-48
57032-S36	718897	J10-48
57039-S2	718919	J10-48
57041-S2	718922	J10-48
57048-S2	718926	J10-48
57472-S2	718894	J10-48
800737-S	718409	J10-19
BO92-51-833	724117	J10-28
C5AB-6220586A	717211	J10-13
D1AZ-6522841A	717166	J10-31
D30Z-16776-A	717131	J10-21
D5ZZ-16828A/B	717183	J10-30
D90Z-6522841A	717387	J10-31
D9ZZ-6643030-AA	721055	J10-31
E3DZ-14A163A	718730	J10-24
E3SZ-6342413A	718425	J10-12
E6AZ-5421952-A	716644	J10-30
E6DZ-5421952-A	716643	J10-30
E7GZ-17A904-B	718726	J10-28
E83Z-5421952-B	716643	J10-30
F22Z-16774-A	716331	J10-16
F3LY-14570-B	724603	J10-28
N09-280305	716335	J10-18
N-606675-S2	720158	J10-48
N606676-S2	720164	J10-48
N606676-S36	717479	J10-48
N-606676-S53B	702565	J10-43
N606677-S	720165	J10-48
N606677-S36	721076	J10-48
N606689-S2	720171	J10-48
N606690-S2	720172	J10-48
N623332-S2	724602	J10-35
N623332-S53	724602	J10-35
N623332-S100	724602	J10-35
N623333-S2	717271	J10-35
N623343-S2	717482	J10-35
N623343-S100	717482	J10-35
N800369	716633	J10-42
N800369-S2	718907	J10-42
N-800387-S	716335	J10-18
N800854-S	717261	J10-34
N80101994S	720378	J10-18
N801603-S2	723294	J10-44
N-801925	718422	J10-20
N801994-S100	721007	J10-17
N802734-S	716305/6	J10-17
N802737-S	718429	J10-28
N802781-S	718423	J10-25
N-802900	716337	J10-20
N803043-S	817110	J10-62
N803170-S	716304	J10-16
N803362-S	718679	J10-24
N803421-S	718427	J10-25
N803494-S	718718	J10-28
N803709-S	718733	J10-24
N803716-S	718732	J10-25
N-803857-S	716310	J10-19
N803862-S	817111	J10-62
N803946-S	718716	J10-27
N804134-S	817117	J10-61
N804189-S	817105	J10-61
N-804349-S	716312	J10-18
N804379S	716309	J10-18
N804583-S	817114	J10-61
N804674-S	718737	J10-25
N804675-S	817118	J10-62
N804759-S	817118	J10-62
N804837-S	718717	J10-28
N804851-S100	527118	J10-60
N805132-S	817122	J10-61
N805759-S100	527115	J10-61
N806296-S	817128	J10-61
N806340-S	720934	J10-12
N806344-S	723346	J10-19
N807620-S100	723182	J10-62
N807721-S	720380	J10-17
N808147-S	720669	J10-27
N808370-S	720383	J10-18
N808376-S417	723347	J10-62
N808689-S417	720531	J10-63
NA01-56145	718723	J10-27
W525170-S417	720501	J10-62
W701855-S300	723056	J10-18
W703505-S301	723048	J10-36
W705845-S300	724117	J10-28
W705956-S300	723176	J10-24
W705957-S300	723177	J10-26
W706519-S300	723177	J10-26
W706713-S300	723059	J10-28
W708035-S300	723285	J10-18
W708530-S300	723309	J10-25
W709002-S	723349	J10-18
W712196-S300	724139	J10-26
W712665-S300	724210	J10-26
W713331-S300	724206	J10-35
YS4Z-13N129-AA	723049	J10-33
YS4Z-16K262-AA	723047	J10-28
GM		
10009923	503157	J10-36
10018611	716861	J10-37
10036503	817124	J10-61
10037786	720194	J10-47
10051034	716119	J10-13
10053182	718721	J10-28
10069112	817119	J10-61
10073833	718657	J10-37
10082036	720137	J10-47
10082553	720335	J10-25
10109689	817130	J10-62
10114597	716119	J10-13
10120517	718811	J10-63
10125439	527110	J10-61
10130851	720140	J10-47
10131511	723182	J10-62
10139822	720669	J10-27
10140480	720334	J10-27

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OEM INTERCHANGE by MANUFACTURER

OEM Number	Part Number	Page Number
GM (cont'd)		
10155743	718811	J10-63
10157547	527105	J10-60
10157900	720333	J10-25
1016937	724602	J10-35
10169777	720379	J10-16
10283414	720580	J10-13
10287971	716344	J10-21
10301966	723031	J10-24
10305191	724153	J10-20
10363811	723364	J10-27
10405030	720580	J10-13
10425306	723031	J10-24
10431761	720943	J10-37
11500402	720170	J10-48
11500434	717451	J10-43
11500657	720316	J10-34
11500658	717481	J10-34
11500660	717271	J10-35
11500661	717482	J10-35
11500662	717483	J10-35
11500754	717470	J10-48
11500961	717263	J10-47
11500969	717268	J10-47
11500970	717472	J10-47
11500996	723355	J10-43
11501102	717473	J10-48
11501105	720188	J10-48
11501184	717264	J10-48
11501188	717474	J10-48
11501193	717272	J10-48
11501849	503158	J10-36
11501884	724600	J10-44
11501932	717485	J10-50
11502449	717450	J10-43
11502540	720327	J10-50
11502605	717269	J10-47
11502607	720141	J10-47
11502617	717271	J10-35
11502624	717269	J10-47
11502630	716223	J10-63
11502785	717266	J10-34
11502941	717467	J10-48
11503289	716222	J10-63
11503317	717482	J10-35
11503499	718959	J10-44
11503564	717483	J10-35
11503619	717473	J10-48
11503633	720190	J10-48
11503685	717266	J10-34
11503698	717494	J10-51
11503702	720189	J10-47
11503715	717262	J10-34
11503719	717261	J10-34
11503736	717493	J10-51
11503800	723276	J10-43
11503823	717467	J10-48
11503834	720184	J10-48
11503892	717451	J10-43
11503957	718261	J10-35
11504035	717266	J10-34
11504119	503159	J10-36
11504303	717460	J10-47
11504492	720192	J10-47
11504493	717468	J10-48
11504499	720143	J10-47
11504531	720217	J10-36
11504570	717459	J10-47
11505022	723356	J10-43
11505023	723355	J10-43
11505044	720187	J10-48
11505045	718942	J10-43
11505773	718807	J10-63
11505816	720151	J10-47
11506174	717467	J10-48
11508241	717262	J10-34
11508248	716819	J10-36
11509096	720193	J10-48
11509153	718809	J10-63
11509511	717269	J10-47
11509816	717459	J10-47
11514623	717459	J10-47
11516150	717482	J10-35
11516372	723204	J10-34
11517824	723013	J10-23
11518017	723309	J10-25
11518357	723300	J10-37
11519030	723358	J10-19
11519807	724116	J10-19
11561368	724140	J10-26
11561878	724603	J10-28
11588650	724232	J10-37
11588863	724188	J10-21
11589289	724205	J10-25
11589290	724138	J10-25
11589291	724206	J10-25
11589292	724208	J10-25
11589293	724139	J10-26
11589294	724209	J10-26
11589295	724210	J10-26
11589296	724211	J10-26
11609417	724109	J10-26
12160858	723304	J10-37
12337868	717718	J10-30
12337915	817130	J10-62
12337920	716336	J10-21
12338011	716119	J10-13
12338015	717256	J10-31
12338074	717363	J10-31
12338153	52729	J10-60
12531204	724012	J10-62
14007940	716776	J10-51
14013246	718604	J10-32
14015161	718743	J10-23
14015876	716820	J10-35
14019205	718730	J10-24
14019206	718730	J10-24
14019226	718739	J10-24
14027471	718627	J10-19
14032200	718742	J10-23
14039420	718740	J10-23
14044215	718670	J10-34
14045480	718662	J10-24
14051674	717719	J10-30
14063981	817110	J10-62
14066728	717256	J10-31
14071289	718739	J10-24
14074081	716351	J10-19
14078435	52791	J10-60
14090382	718932	J10-43
14093088	718423	J10-25
14101262	718734	J10-24
1480627	720237	J10-35
1494252	720237	J10-35
15022087	720677	J10-63
15056810	723024	J10-18
15153415	720586	J10-25
15296830	724207	J10-25
15506827	817129	J10-62
15562609	717364	J10-31
15588024	716301	J10-37
15591860	717397	J10-31
15594416	716302	J10-17
15595172	817112	J10-62
15596301	716301	J10-37
15600382	718657	J10-37
15653790	720999	J10-31
15672183	720998	J10-31
15679091	718718	J10-28
15681408	718733	J10-24
15691493	717363	J10-31
15691595	717397	J10-31
15733971	721034	J10-19

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OEM INTERCHANGE by MANUFACTURER

OEM Number	Part Number	Page Number
GM (cont'd)		
15748479	723029	J10-37
15958694	717130	J10-17
15960325	724129	J10-26
15960621	720585	J10-25
15964971	717363	J10-31
15964972	717364	J10-31
15967691	717397	J10-31
15969147	724133	J10-26
15975244	720371	J10-18
15993201	720333	J10-25
15994165	723308	J10-25
1605396	717130	J10-17
1619321	718618	J10-17
1631564	716309	J10-18
1633999	718725	J10-27
1636632	718729	J10-25
16500283	718647	J10-37
1651249	716225	J10-63
16514113	723025	J10-24
16632192	717364	J10-31
16629990	721051	J10-30
16632193	717363	J10-31
16675980	721051	J10-30
1689827	717182	J10-44
1690410	718656	J10-19
1699250	716320	J10-18
1703731	717495	J10-51
1746408	718813	J10-63
20003056	723212	J10-38
20008798	717715	J10-30
20008799	717714	J10-30
20030401	718616	J10-21
20032850	716333	J10-16
20064875	718615	J10-21
20083312	720186	J10-47
20123070	716101	J10-13
20158344	717716	J10-30
20184399	52729	J10-60
2024778	723202	J10-63
20319841	718654	J10-18
20325696	527114	J10-60
20328600	716101	J10-13
20351035	720184	J10-48
20374473	716336	J10-21
20421672	817112	J10-62
20421800	718657	J10-37
20423550	716219	J10-63
20423647	817105	J10-61
20429451	716338	J10-21
20429500	717238	J10-31
20430421	716356	J10-19
20432975	817106	J10-61
20433026	817113	J10-62
20451119	718672	J10-28
20451401	716317	J10-21
20452072	817111	J10-62
20455900	716303	J10-19
20465395	817120	J10-61
20480475	716342	J10-21
20490398	716822	J10-35
20510029	718679	J10-24
20514862	716322	J10-18
20582532	716647	J10-30
20585900	720152	J10-47
20612732	817121	J10-61
20633148	716647	J10-30
2064891	52616	J10-21
20687704	718729	J10-25
20699808	716424	J10-16
20709017	720372	J10-16
20713843	527101	J10-60
20729523	720373	J10-16
21030249	724133	J10-26
21035345	723013	J10-23
21042958	716337	J10-20
21075686	724603	J10-28
21077123	720917	J10-25
21094146	720377	J10-17
21095797	724116	J10-19
22189414	723196	J10-17
22512276	716323	J10-17
22531616	717483	J10-35
22535007	718744	J10-25
22538004	720025	J10-28
22585836	720667	J10-62
22641917	720667	J10-62
22699649	723364	J10-27
22704458	723364	J10-27
22713392	723364	J10-27
22722859	723364	J10-27
22722860	723364	J10-27
24501057	724237	J10-17
25016383	716316	J10-16
25517947	718671	J10-19
25524005	817123	J10-61
25631448	720754	J10-44
25648693	723017	J10-40
25680782	720669	J10-27
25691949	723180	J10-40
25704001	723180	J10-40
25732397	724146	J10-44
3065575	717163	J10-21
3071437	717469	J10-47
3078511	717320	J10-21
3081052	717713	J10-30
321519BS	717718	J10-30
332364	716319	J10-16
363137	716315	J10-21
365718	717471	J10-48
367291	717034	J10-52
367292	717033	J10-52
3744999	516259	J10-37
3783006	702555	J10-41
378668	717716	J10-30
380382	718899	J10-42
3907444	702559	J10-41
3977775	717320	J10-21
3998009	717718	J10-30
411700	716339	J10-19
4234830	717719	J10-30
4533699	717219	J10-12
469716	717713	J10-30
469718	717716	J10-30
472434	718728	J10-24
4755299	702559	J10-41
480534	718728	J10-24
4876498	717212	J10-13
5482103	724111	J10-20
588546	717103	J10-44
5973400	718644	J10-24
5973823	718645	J10-24
5973996	718646	J10-24
6502625	720334	J10-27
7693140	717223	J10-12
7698976	717222	J10-12
8717859	717226	J10-12
8736586	717223	J10-12
8763591	717222	J10-12
88891731	717397	J10-31
88970494	723317	J10-28
88970747	720632	J10-22
88970767	723368	J10-23
94051993	718710	J10-27
94198687	718720	J10-27
9423101	723028	J10-42
9428196	716224	J10-44
9431530	720216	J10-36
9431911	717522	J10-62
9432137	527117	J10-61
9432552	527111	J10-61
9433056	720223	J10-35
9433155	720217	J10-36

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OEM INTERCHANGE by MANUFACTURER

OEM Number	Part Number	Page Number
GM (cont'd)		
9433156	720218	J10-36
9433186	724013	J10-62
9436175	52727	J10-60
9437486	527102	J10-60
9437643	723019	J10-63
9437938	52728	J10-60
9439576	527112	J10-61
9439719	527108	J10-60
9440392	527113	J10-61
94841764	716793	J10-32
94842841	716329	J10-19
94849113	716329	J10-19
94853733	720550	J10-27
94854203	720630	J10-34
94858509	720632	J10-22
95005064	716343	J10-20
95008221	720807	J10-19
9616231	716221	J10-63
9685057	718230	J10-21
9711304	717718	J10-30
9721917	717166	J10-31
9731301	716409	J10-12
9818648	52616	J10-21
9854717	717226	J10-12
9883583	52616	J10-21
Honda		
34301-692A-0000	716870	J10-32
75305-S0A-003	724147	J10-37
75521-611-0000	716790	J10-32
75522-611-0000	717611	J10-32
90107-SX0-003	720982	J10-33
90114-SE0-000	723088	J10-44
90505-SX0-003	720549	J10-23
90656-671-6310M1	716798	J10-32
90657-SA6-0030	718720	J10-27
90657-SB0-003	723091	J10-24
90661-SC7-003	716857	J10-33
90662-671-0030	716794	J10-33
90662-693-003	716855	J10-33
90664 671 0030	716328	J10-12
90668-688-0030	716858	J10-32
90668-SB0-003	718712	J10-27
90672-671-811	716848	J10-33
90675-SA6-0030	716852	J10-33
90675-SB3-003	718722	J10-27
90677-SE0-003	717646	J10-32
90683-693-0000	716856	J10-34
90683-SA5-003	720507	J10-27
90684-SA5-003	718711	J10-27
91500-SM4-999AH	718910	J10-43
91501-S04-003	720767	J10-22
91503-S0K-A01	723374	J10-23
91503-SZ3-003	720620	J10-23
91503-SZ5-003	720619	J10-23
91505-S9A-003	724604	J10-28
91512-SX0-003	720901	J10-23
91515-SR3-000	720536	J10-13
91518-S10-003	721016	J10-22
91518-SM4-003	720762	J10-22
91530-ST5-003	720766	J10-12
91560-SM4-003	724019	J10-20
91570-SK7-003ZF	721032	J10-24
Hyundai		
86593-24000	724197	J10-37
Isuzu		
894-226-4920	717616	J10-20
894-243-1900	718715	J10-27
894-298-1190	718711	J10-27
Kia		
MBF67-50-033	718726	J10-28
MG350-68AB1	723205	J10-22
Lexus		
90467-09101	720550	J10-27
90467-09143	720794	J10-27
90467-09145	720795	J10-27
Mazda		
1395-68-676	718715	J10-27
9924-90-512B	716672	J10-16
9926-50-635	718715	J10-27
9927-40-821	716681	J10-21
9927-40-825	717616	J10-20
9991-00-402	716850	J10-32
9991-00-403	716839	J10-44
9991-00-412	717611	J10-32
9991-00-501	716792	J10-32
9991-00-503	716794	J10-33
9991-00-601	716790	J10-32
BC1D-56-145	723209	J10-28
BF67-50-033	718726	J10-28
FB01-56-964	718722	J10-27
G030-68-885B38	716331	J10-16
G350-68-AB1	723205	J10-22
GA2A-56-694	716331	J10-16
GA2A-58-762	720537	J10-12
GD7A-50-EA1	724122	J10-26
H001-50-841	716857	J10-33
KA78-50-AF4	720989	J10-33
N304-13-356-A	718720	J10-27
Mercedes		
000-904-24-45	716804	J10-35
000-994-04-45	716805	J10-35
000-994-06-45	716809	J10-36
000-994-09-45	716811	J10-36
000-994-14-45	716807	J10-36
000-994-50-45	716812	J10-36
123-994-08-45	724094	J10-36
914031-00-4305	718952	J10-43
Mitsubishi		
480001	718899	J10-42
MB-098145	716864	J10-33
MB106212	716848	J10-33
MB-178894	717608	J10-20
MR200300	723208	J10-26
MR328954	720637	J10-23
MR478262	723207	J10-24
MR478263	723206	J10-38
MS-480001	717611	J10-32
MS-480002	716793	J10-32
MS-480012	716857	J10-33
MU000319	720901	J10-23
Nissan		
01281-00022	716795	J10-33
01281-00028	716864	J10-33
01281-00151	716848	J10-33
01281-00161	716848	J10-33
01281-00831	724030	J10-33
01553-00051	717610	J10-20
01553-00172	717620	J10-13
01553-01182	724028	J10-16
01553-01251	716327	J10-20
01553-03101	718713	J10-27
01553-09241	720796	J10-23
01553-09321	720637	J10-23
01553-09611	723186	J10-26
01553-S3500	716308	J10-21
01651-00481	716857	J10-33
10998-30880	718711	J10-27
11296-AG000	724027	J10-22
62319-0W000	723096	J10-33
63844-01A00	718723	J10-27
63844-01A99	718672	J10-28
63848-40Y00	723381	J10-27
63848-9E001	723295	J10-26
63876-95596	718722	J10-27
63878-01E10	723203	J10-28
65810-K2009	720967	J10-19
65832-F5000	716326	J10-37
65846-30F00	716326	J10-37
66814-01G00	718727	J10-23
66860-01W01	718710	J10-27
67771-22020	716680	J10-20
68425-H5000	716794	J10-33

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OEM INTERCHANGE by MANUFACTURER

OEM Number	Part Number	Page Number
Nissan (cont'd)		
74798-S9000	716857	J10-33
76906-T3000	716330	J10-19
78856-R4301	716856	J10-34
80832 6500	716328	J10-12
80833 8500	716328	J10-12
80874-0P000	723385	J10-34
80915-29A66	718715	J10-27
84915-0W000	720966	J10-20
90467-06054	717612	J10-24
96706-89901	716850	J10-32
96706-H9400	716848	J10-33
96706-K1300	716848	J10-33
96706-K1351	716848	J10-33
96706-P0105	716790	J10-32
96706-W1000	716846	J10-33
97606-B0700	717611	J10-32
Opel		
20-72-175	716811/12	J10-36
Subaru		
790184000	716848	J10-33
Toyota		
10116-41810	718736	J10-24
52161-20010	724451	J10-26
53879-60010	724203	J10-26
55799-12010	720938	J10-34
67771-01010	716343	J10-20
67771-06070	720546	J10-20
67771-12010F	717616	J10-20
67771-12050	720807	J10-19
67771-22010	716679	J10-20
67771-30090	720776	J10-19
67867-0C010	720965	J10-12
67867-12150	720965	J10-12
67868-02020	720965	J10-12
90084-26001	720771	J10-62
90084-26002	723117	J10-62
90189-04007	716867	J10-33
90189-04066	716855	J10-33
90189-05013	716793	J10-32
90189-06001	716864	J10-33
90189-06003	716845	J10-33
90189-06010	716790	J10-32
90189-06013	716846	J10-33
90189-06028	720630	J10-34
90189-06042	716857	J10-33
90189-06065	716846	J10-33
90189-06104	720985	J10-33
90189-06157	720986	J10-34
90189-06214	720987	J10-34
90269-04053	723128	J10-62
90467-05096-22	720508	J10-17
90467-06017-20	718720	J10-27
90467-07050	717620	J10-13
90467-07085	723126	J10-23
90467-07117	720627	J10-23
90467-07146	721033	J10-22
90467-07164	723119	J10-24
90467-07166	720785	J10-22
90467-07168	723317	J10-28
90467-07195	723191	J10-26
90467-07201	724461	J10-26
90467-08004	716329	J10-19
90467-08011	716329	J10-19
90467-08185	723186	J10-26
90467-08186	723104	J10-16
90467-09050	720632	J10-22
90467-09096	720386	J10-24
90467-09127	720629	J10-27
90467-09139	720548	J10-22
90467-09206	723250	J10-38
90467-10107	720786	J10-13
90467-10183	723368	J10-23
90467-10188	724053	J10-20
90467-11005	716330	J10-19
90467-A0008	724134	J10-18
93904-46320	718910	J10-43
Volvo		
1318908-9	723155	J10-33
946-418	716811	J10-36
979878-6	720525	J10-62
VW		
175-853-577	817106	J10-61
175-853-577A	817113	J10-62
175-853-695A	718743	J10-23
175-867-299	716357	J10-21
N15.422.2	716803	J10-35
N15.456.1	716812	J10-36
N90282401	716307	J10-17
N98905101	718230	J10-21

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D - TOOLS & SHOP SUPPLIES

D10A	ABRASIVES	D10A
D10B	DRILL BITS	D10B
D10C	CUTTING TOOLS	D10C
D11	HAND TOOLS	D11
D12	LIGHTING	D12
D13	WELDING	D13
D14	SHOP SUPPLIES	D14
D19*	SPECIAL ORDER TOOLS	D19
099*	SPECIAL ORDER ITEMS	099

***ELECTRONIC and AIR POWER TOOLS – EQUIPMENT – ACCESSORIES**

SEE INDEX ON PAGE D10C-45 INDEX

CALL: 1-888-722-4767
EXTENSION: 8142 or 8117

D-TOOLS & SHOP SUPPLIES

D10A-ABRASIVES

ABRASIVES D10A-1-17
3M Products D10A-7-8, 10, 14, 17
Bonded Abrasives D10A-11-13
Brake Rotor Surfacing Discs (3M) D10A-10
Bristle Disc D10A-17
Brushes
Miniature, Nylon/Steel D10A-2
Steel Power Tube Brushes D10A-2
Clean 'N Strip Discs (3M) D10A-14
Coated Abrasives D10A-5-10
Cut-Off Wheels D10A-12-13
Emery Cloth Rolls D10A-7
Emery Cloth Sheets D10A-7
Flap Disc's & Wheel's D10A-5-6, 14
Grinding Brushes D10A-3
Grinding Discs D10A-8, 10
Grinding Wheels D10A-11-12
Hand Pads D10A-16
Miscellaneous Abrasives D10A-16-17
Non-Woven Synthetic
Abrasives D10A-14-16
Posi-Grip Discs (ScotchBrite) . . . D10A-15
Roloc Discs (3M) D10A-17
Sanding Discs (3M) D10A-7
Sandpaper – Sheets D10A-6-8
Screencloth D10A-6
Steel Brushes D10A-2
Steel Wool D10A-16
Surface Preparation Discs . . . D10A-14-16
Twist-Lock Discs (Roloc) D10A-6, 15
Wire Wheels & Brushes D10A-1-3

D10B-DRILL BITS

DRILL BITS D10-18-26
Cobalt Heavy Duty Drills D10B-26
Core Drill D10B-24
Countersink Bits D10B-22
Double End Bits D10B-22
Dynalloy Drills D10B-20-25
Extension Drills D10B-22
Hex Shank Drills D10B-22
High Speed Steel Drills D10B-20-22
Hole Hog Drills D10B-24
Left Hand Drills D10B-25
Long Drills D10B-22
Masonry Drills D10B-22
Posi-Grip Drills D10B-23-24
Reamer D10B-25
Rotary Saw Drill D10B-24
Specialty Drills
Spade Wood D10B-25
Spiral Point Taps D10B-29
Spotweld Drills D10B-25
Tips & Techniques for Drilling . . . D10B-18
Titanium Nitride Drills D10B-19-20
Ultra Moly Muscle
"Quick Release Style" Drills D10B-24
Unibit Step Drills D10B-20, 26
Weldout™ Spotweld Drills D10B-25

D10C-CUTTING TOOLS

CUTTING TOOLS D10C-27-45
Air Saw Blades D10C-35
Arbors D10C-40-41
Bandsaw Blades D10C-36
Burs, Carbide D10C-34
Combo Drill Tap D10C-30
Cutting Tools . . . . . D10C-44 to 45
Files D10C-42-43
Hacksaw Blades & Frames . . D10C-34-35
Hex Dies D10C-28-29
Hole Saw D10C-41
Jig Saw Blades D10C-36
Knives D10C-45
Oil Drain Pan Rethreading Taps . D10C-31
Pilot Drills D10C-40-41
Pipe Thread Taps D10C-30
Reciprocating Saw Blades . . . D10C-36-40
Rod Saw D10C-35
Rotabroach D10C-40
Saw Blades D10C-35-40
Scraping Tools D10C-44
Snips D10C-43
Taps D10C-27-30
Tap & Die Sets D10C-30
Tap and Drill Assortment D10C-27
Taps & Die Carbon Steel D10C-27-30
Taps & Die High Speed Steel D10C-27-30
Taps and Die Tools D10C-30
Thread Repair Tools
Drill Out D10C-33
External Bolt Rethreading Tool . D10C-32
Extractor Tools D10C-31, 33
Internal Thread Restorers D10C-32
Super Out D10C-32
Universal - Combo. Int. & Ext. . D10C-31

D11-HAND TOOLS

Ball Drivers D11-5
Bit Holders D11-10
Bolt & Nut Extractors D11-1
Cable Crimpers D11-13-14
Cable Cutters D11-13
Chisels D11-11
Clamps D11-8-9
Crimpers D11-13-14
Crimping Tools D11-13-14
Crow Bar D11-11
Drive Sockets D11-2
Electrical Service Tools
A/C Sensor D11-14
Circuit Tester D11-14
Voltage Detector D11-14
Wire Piercing Guide D11-14
Gauges D11-12
Hammers D11-11
Hand Tools D11-3
Heat Guns D11-14
Hex Drivers, Magnetic D11-2, 10
Hex Keys D11-5-6
Hot Air Gun D11-14
Impact Sockets D11-2
Insert Bits D11-1, 10-11
Insert Bit Holders D11-10
Magnetizer/Demagnetizer D11-10
Multi-Grip Universal Socket D11-1
Nut Driver D11-4
Pick-Up Tools D11-15
Pipe Wrenches D11-4
Pliers D11-6-8
Pry Bar D11-11
Punches D11-11-12
Ratchets D11-3
Rulers D11-12
Screw Grab D11-10
Screwdriver Bits D11-10-11
Screwdrivers D11-9-10
Socket Sets D11-2
Strippers D11-13, 15
Tape Rulers D11-12
Torx Bits D11-1, 11
Vise-Grips D11-8
Wire Crimpers D11-13
Wire Cutters D11-13
Wire Stripper D11-13, 15
Wrenches D11-3-5

D12-LIGHTING

Alkaline Batteries D12-5
Angle Lights D12-3
Batteries D12-5
Bayco Lighting Products D12-3
Bulbs D12-1
Button Cell Battery D12-5
Extension Cords D12-2
Flashlight Bulbs D12-4
Flashlights D12-4
Fluorescent Lights D12-2-3
Halogen Bulbs D12-1
Lamp Handle D12-2
Lanterns D12-4
Light Bulbs D12-1
Lithium Batteries D12-5
Long Life Lamps D12-1
Super Service D12-1
Metal Guard D12-2
Penlite D12-4
Retractable Reels D12-3
Rough Service Bulbs
Standard & Frosted (not coated) . . D12-1
Tuff-Skin Shatterproof/Waterproof . D12-1
Tuff Skin Silicone Coated D12-1
Trouble Light Accessories D12-2
Trouble Lights D12-2
Utility Lights D12-3
Work Lights D12-3

D13-WELDING

Cable D13-6
Cool Gel® Heat Barrier Spray D13-8
Dynalloy Wire Solder D13-9
"MIG" Welding Wire D13-5
Mini Torch D13-10
Pencil flame Torch D13-10
Scavenger Welding Wire D13-5
Self-Igniting Torch D13-10
Solder, Paste D13-9
Solder, Wire D13-9
Soldering/Brazing Accessories
Bloc-It D13-8
C-Flux Paste D13-10
Dynalloy "A" Alum. Flux Powder . D13-10
Dynalloy Fluxall Soldering Flux . . D13-10
Silver Brazing Flux Paste D13-10
Super Blaster Torch D13-10
Welding Accessories
Anti-Spatter D13-8
Blankets D13-7
Brushes D13-6
Cable Connector Set D13-6
Cleaner Kit D13-7
Double-Lock Ground Clamp D13-6
Electrode Holder D13-6
Face Shields D13-11
Flash Glasses D13-7
Gloves D13-7
Goggles D13-7
Hammers D13-6
Lenses & Plates D13-7
Soapstone & Holder D13-7
Spark Lighter D13-7
Windows for Shields D13-11
Welding Rods
Patriot D13-1-5
Aluminum D13-3
Brazing D13-4A
Canisters D13-8
Cast Iron D13-3
Metal D13-2
Stainless Steel D13-3
Steel D13-2
Tool Steel D13-4

D14-SHOP SUPPLIES

Automotive Appearance Products . D14-11
Brooms D14-8-9
Brushes D14-7
Caulking Gun D14-10
Cleaning Supplies D14-7-9
Driveway Signal Products D14-16
Dust Brush/Pan D14-9
Dust Masks D14-20
Ear Plugs & Earmuff D14-21
First Aid Kits D14-22-23
Floor & Seat Protectors D14-14
Garage Exhaust Tubing D14-6
Gas Cans D14-16
Glasses & Goggles D14-21-22
Gloves D14-18-19
Hose Nozzles & Accessories D14-17
Markers D14-15
Mechanic's Wire D14-15
Mops D14-8
Music Wire D14-15
Paint Brushes & Supplies D14-10
Paint Stiks D14-15
Paper/Plastic Products &
Dispensers D14-12-14
Protective Clothing D14-18-19
Safety Cones & Flags D14-24
Safety Equipment D14-20-26
Shop Equipment D14-16-17
Shop Use Items D14-15
Signs D14-26
Skin Treatment D14-24
Squeegees D14-8, 11
Tapes D14-1-5

NOTES

STEEL WIRE WHEEL BRUSHES

STEM MOUNTED WIRE END BRUSHES

Crimped wire for light & medium duty, knot wire for heavy duty cleaning, finishing & polishing. Removes burrs and weld splatter, etc. Mounted on 1/4'' stems. Use on portable power tools.

PART NUMBER	STYLE	(A) DIA	WIRE. SIZE	(D) TRIM LGTH	MAX RPM
812709	Crimped wire [1]	1/2	.020	7/8	25,000
812710	Crimped wire [1]	3/4	.020	7/8	20,000
812153	Crimped wire [1]	1	.014	7/8	20,000
812152	Knot [2]	1-1/8	.020	7/8	20,000

STEM MOUNTED WIRE WHEEL BRUSHES

For carbon cleaning, polishing, weld cleaning, scale removal, rust & paint removal, rubber & plastic flash removal, deburring, ID pipe cleaning mounted on 1/4'' stems.
Use on portable power tools.

PART NUMBER	STYLE	(A) DIA	WIRE SIZE	(D) TRIM LENGTH	(B) FACE WIDTH	MAX RPM
812711	Cup [1]	1-3/4	.0118	3 / 4	--	13,000
812712	Circular flair [2]	3	.008	2	--	14,000
812713	Conflex narrow [3]	3	.008	--	3/8	20,000
812714	Conflex narrow [3]	3	.0118	--	3/8	20,000
812154	Conflex wide [4]	1-1/2	.0118	--	1/2	20,000
812719	Circular flair [2]	1-1/2	.006	1	--	20,000
812720	Conflex narrow [3]	2	.014	7/16	--	25,000
812721	Conflex narrow [3]	2-1/2	.014	11/16	--	20,000

EPOXY ENCAPSULED WIRE WHEEL

The wire tips are firmly held & supported producing an aggressive brushing action & longer life. For heavy duty - burr removal, weld scale, rust & cleaning in narrow or confined areas.

''Mule Skinner''

PART NUMBER	(A) DIA (INCHES)	WIRE SIZE	(B) FACE WIDTH	(C) ARBOR (INCHES)	MAX RPM
812715	2	.014	1/4	1/2	20,000
812716	3	.014	1/4	1/2	20,000

CRIMPED WIRE WHEELS

For cleaning rust, scale and dirt, deburring, edge blending, surface preparation & finishing. Light and medium duty work.

PART NUMBER	(A) DIA (INCHES)	WIRE SIZE	(B) FACE WIDTH	(C) ARBOR (INCHES)	MAX RPM
812896	2	.012	3/8	1/2, 3/8	20,000
812897	3	.012	5/8	1/2, 3/8	20,000
812898	3	.014	5/8	1/2, 3/8	20,000
812701	4	.014	1/2	3/8, 1/2	6,000
812702	6	.014	3/4	1/2, 5/8	6,000
812150*	6	.014	1	2	6,000
812899*	8	.012	1	2	4,000
812703*	8	.014	1-1/2	2	4,000

*** Order adapters separately.**

KNOT WIRE WHEELS

For high impact, heavy duty cleaning in severe applications, weld cleaning, removal of rubber & plastic flash.

PART NUMBER	(A) DIA (INCHES)	WIRE SIZE	(B) FACE WIDTH	(C) ARBOR (INCHES)	MAX RPM
812753	4	.014	1/4	5/8-11	20,000
812151	6	.023	1/2	1/2, 5/8	9000

CRIMPED WIRE CUP BRUSHES

For light and medium duty cleaning, roughening, & deburring of large metal surfaces. Removes weld scale, rust, paint and corrosion.

PART NUMBER	(A) DIA (INCHES)	WIRE SIZE	(B) TRIM LENGTH	(C) ARBOR (INCHES)	MAX RPM
812704	4	.020	1-3/8	5/8-11	9,000
812705	6	.020	1-1/8	5/8-11	6,000

KNOT WIRE CUP BRUSHES

For heavy duty cleaning, roughening, deburring on large metal surfaces. Removal of weld scale, corrosion, paint, rust on large surfaces. Provides high impact cutting action in severe applications. All have a single row of knot wire with one exception. Part No. 812708 has a double row of knot wire.

Double Row of Knot Wire
Part No. 812708

PART NUMBER	(A) DIA (INCHES)	WIRE SIZE	(B) TRIM LENGTH	(C) ARBOR (INCHES)	MAX RPM
812706	4	.023	1-1/4	5/8-11	9,000
812707	6	.023	1-3/8	5/8-11	6,000
812708*	6	.023	1-3/8	5/8-11	6,000

ARBOR ADAPTERS

PART NUMBER	SIZE
812750	1/2
812751	5/8
812752	3/4

Reduces wire wheels with 2'' arbor holes.

Sold in pairs.

THREADED DRIVE ARBOR

For adapting wire wheels with 1/2'' Arbor to portable power tools
1/2'' Diameter
1/4'' Shank

Part No. 812157

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STEEL and NYLON BRUSHES

POWER TUBE BRUSHES

GREAT FOR THOSE BLIND & HARD TO REACH AREAS

IDEAL FOR: Deburring, cleaning of drilled holes and internal threads. Cleaning and finishing internal diameters of pipes & tubes. Carbon removal. Used in drill presses, portable tools and lathes. Also used as hand tool.

MAXIMUM SAFE SPEED IS 3,450 RPM
Constructed of "HT" Steel Wire (High Tensile, Heat Treated)

– ROUND TYPE –

PART NUMBER	DIA. (INCHES)	WIRE SIZE	STEM DIA.	OVERALL LENGTH	BRUSH LENGTH
815168	1/4	.004	1/8	3-1/2	1
815169	1/2	.005	3/16	3-1/2	1
815170	5/8	.005	3/16	3-1/2	1
815171	3/4	.006	1/4	3-1/2	1

– DOUBLE SPIRAL TYPE –

PART NUMBER	DIA. (INCHES)	WIRE SIZE	OVERALL LENGTH	BRUSH LENGTH
815178	1/2	.004	5	2
815179	5/8	.005	5	2
815180	3/4	.006	5-1/2	2-1/2
815181	1	.010	5-1/2	2-1/2

NOTE: All Power Tube Brushes must be fully chucked before using.

MINIATURE BRUSHES

For light deburring, cleaning, or polishing. Used with high speed portable and flexible shaft tools. Cup & wheel brushes have a solid ring construction — each individual filament is wrapped around solid steel ring which ensures the filament is permanently anchored.

– CUP BRUSHES –

PART NUMBER	DIA.	WIRE SIZE	STEM DIA.	MAX. RPM	FILL TYPE
815164	9/16	.005	1/8	25,000	Wire
815165	9/16	--	1/8	25,000	Nylon

– END BRUSHES –

PART NUMBER	DIA.	WIRE SIZE	STEM DIA.	MAX. RPM	FILL TYPE
815166	3/16	.003	1/8	25,000	Wire
815167	3/16	--	1/8	25,000	Nylon

– WHEEL BRUSHES –

PART NUMBER	DIA.	WIRE SIZE	STEM DIA.	MAX. RPM	FILL TYPE
815162	3/4	.003	1/8	25,000	Wire
815163	3/4	--	1/8	25,000	Nylon

CONDENSER TUBE BRUSHES

STAINLESS STEEL SINGLE SPIRAL / DOUBLE STEM

PART NUMBER	SIZE (INCHES)
815225	1/2 x 4 x 12-24 Female Thread
815227	5/8 x 4 x 12-24 Female Thread
815229	3/4 x 4 x 12-24 Female Thread

TUBE FITTING BRUSHES

STAINLESS STEEL WIRE

The highest quality fitting brush, double spiral 4-ply wire construction. Solid plastic hand-fitting handle with convenient hole for hanging.

ID PLUMBING SIZES

PART NUMBER	SIZE	PART NUMBER	SIZE
815425	1/8	**815429**	5/8
815426	1/4	**815430**	3/4
815427	3/8	**815431**	1
815428	1/2		

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GRINDER BRUSHES and SCRATCH BRUSHES

MIGHTY MITES®

SMALL ANGLE GRINDER BRUSHES

● Roughening ● Deburring ● Cleaning ● Rust and paint removal ● Surface conditioning ● Weld splatter

- **Permanently marked thread size - easy to tell what brush fits what grinder.**
- **Quick mount hi-profile nut - perfect balance.**
- **All steel hub construction.**
- **'HT'' steel wire high tensile, heat treated) for long life.**
- **Solid ring construction - each wire held around solid steel ring.**

CRIMPED WIRE CUP

PART NUMBER	DIA. (INCHES)	WIRE SIZE	ARBOR THREAD SIZE.	TRIM LENGTH	FACE WIDTH	MAX. SAFE SPEED
815184	3	.014	10mm x 1.25	1	5/8	14,000
815186	3	.014	14mm x 2	1	5/8	14,000
815188	3	.014	5/8''-11 UNC	1	5/8	14,000

KNOT CUP

PART NUMBER	DIA. (INCHES)	WIRE SIZE	ARBOR THREAD SIZE.	TRIM LENGTH	FACE WIDTH	MAX. SAFE SPEED
815189	2-3/4	.020	10 mm x 1.25	3/4	3/8	14,000
815190	2-3/4	.020	10mm x 1.50	3/4	3/8	14,000
815191	2-3/4	.020	14mm x 2	3/4	3/8	14,000
815192	2-3/4	.020	1/2''-13 UNC	3/4	3/8	14,000
815193	2-3/4	.020	5/8''-11 UNC	3/4	3/8	14,000

KNOT WHEEL
(Stringer Bead Twist)

PART NUMBER	DIA. (INCHES)	WIRE SIZE	ARBOR THREAD SIZE.	TRIM LENGTH	FACE WIDTH	MAX. SAFE SPEED
815194	4	.020	10mm x 1.25*	7/8	3/16	20,000
815198	4	.020	5/8''-11 UNC	7/8	3/16	20,000

KNOT WHEEL
(Cable Twist)

PART NUMBER	DIA. (INCHES)	WIRE SIZE	ARBOR THREAD SIZE.	TRIM LENGTH	FACE WIDTH	MAX. SAFE SPEED
815201	4	.020	14mm x 2	7/8	1/4	20,000
815203	4	.020	5/8''-11 UNC	7/8	1/4	20,000

WIRE SCRATCH BRUSHES

14'' x 15/16'' Block Size
3 x 19 Rows of wire
Part No. 812155

10'' x 1-1/8'' Block Size
4 x 16 Rows of wire
Part No. 812156

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ABRASIVES and GRINDING

ABRASIVE AND GRINDING ASSORTMENT

Part No. 501662
40 pieces • 23 items
12071 steel tray
Includes mandrels & holders

811617	811686	812475	812498	815129
811618	811688	812479	812499	815137
811644	812460	812483	812725	815140
811645	812461	812491	812726	
811675	812466	812495	815120	

Numbers in assortment

Contains All You Need To Do Just About Any Type Of Grinding Or Surface Preparation.

TWIST-LOCK MINI GRINDING DISCS

Edge grinding, deburring & polishing.

MOUNTED FLAP WHEELS

For contoured surfaces and hard-to-reach areas.

MOUNTED GRINDING WHEELS

Ideal for weld grinding.

TWIST-LOCK SURFACE PREP DISCS

Removes rust, gasket residue, pre-paint finishing.

SAMPLES OF ITEMS IN USE

STRIP-IT TWIST-LOCK DISCS

Removes scale, paint, tar. Cleans stone, marble, etc.

CARTRIDGE ROLLS

Deburring, blending and finishing hard-to-reach areas.

TRIM-KUT DISCS

Edge grinding, surface prep & polishing.

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COATED ABRASIVES

ZIRCONIUM BLUE FLASH FLAP DISCS

Best used on flat or gently contoured surfaces for:

- Paint & rust removal.
- Die cast and weld grinding.
- Auto body finishing.
- Aluminum finishing.
- Deburring & masonry work.
- Wood & plastic work.

IMPORTANT: To obtain a similar surface finish select a flap disc which is 1 - 2 grades coarser than conventional disc.

TYPE 29

TYPE 27

AGGRESSOR

- Aluminum backing plate.

– ANGLED FACED - TYPE 29 –

PART NUMBER	WHEEL SIZE DIA (INCHES)	ARBOR HOLE	GRIT	MAX SPEED RPM
815131	4-1/2	5/8-11	36	13,000
815132	4-1/2	5/8-11	60	13,000
815133	4-1/2	5/8-11	80	13,000

JUMBO DENSITY

- 80% more life - fiberglass backing plate.

– ANGLED FACED - TYPE 29 –

PART NUMBER	WHEEL SIZE DIA (INCHES)	ARBOR HOLE	GRIT	MAX SPEED RPM
815375	4-1/2	7/8	36	13,300
815376	4-1/2	7/8	60	13,300
815377	4-1/2	7/8	80	13,300
815378	4-1/2	5/8-11	36	13,300
815379	4-1/2	5/8-11	60	13,300
815380	4-1/2	5/8-11	80	13,300

NON-SCRATCHING

- Fiberglass backing plate.

– ANGLED FACED - TYPE 29 –

PART NUMBER	WHEEL SIZE DIA (INCHES)	ARBOR HOLE	GRIT	MAX SPEED RPM
815350	4-1/2	7/8	36	13,300
815351	4-1/2	7/8	60	13,300
815352	4-1/2	7/8	80	13,300
815353	4-1/2	5/8-11	36	13,300
815354	4-1/2	5/8-11	60	13,300
815355	4-1/2	5/8-11	80	13,300
815356	7	7/8	36	8,600
815357	7	7/8	60	8,600
815358	7	7/8	80	8,600

Ideal for blending and finishing on contoured surfaces.
Blending welds on right angle sections.
Pipe/tube fabrication/stainless steel vessel fabrication.

- Unique construction gives flexible abrasive flaps.
- More flexible compared to resin fibre discs.
- Longer life compared to resin fibre discs.

– FLAT FACED - TYPE 27 –

PART NUMBER	WHEEL SIZE DIA (INCHES)	ARBOR HOLE	GRIT	MAX SPEED RPM
815359	4-1/2	7/8	36	13,300
815360	4-1/2	7/8	60	13,300
815361	4-1/2	7/8	80	13,300
815362	4-1/2	7/8	120	13,300
815363	4-1/2	5/8-11	36	13,300
815364	4-1/2	5/8-11	60	13,300
815365	4-1/2	5/8-11	80	13,300
815366	4-1/2	5/8-11	120	13,300
815367	7	7/8	36	8,600
815368	7	7/8	60	8,600
815369	7	7/8	80	8,600
815370	7	7/8	120	8,600

MINI - ZIRCONIUM BLUE FLASH FLAP DISCS

Polishing and finishing, chamfering, deburring, grinding, stock and weld removal, weld preparation, blending, beveling, edge grinding and grid line removal.

- Simultaneously grind and finish in one application.
- Consistent aggression throughout disc life.
- Grinds cool, reducing bluing and burning of work surface.
- Overlapping flap construction virtually eliminates edge wear.
- Coarser grits provide for rapid stock removal.
- Small diameters permit access to confined and hard-to-reach areas.
- Interrupted flap surface reduces glazing and loading.
- 20 times the life of cloth backed disc.
- Used on stainless steel, cast iron, brass, bronze, aluminum, titanium, inconel composites, fiberglass, plastic and much, much more.
- Used with straight or angled grinders and electric power tools.

USED BY

- Sheet metal fabrication.
- Aerospace.
- Foundries.
- Maintenance departments.
- Petrochemical.
- Food equipment.
- Appliance.
- Automotive.
- And much, much more...

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COATED ABRASIVES

TWIST-LOCK MINI FLAP DISC - ZIRCONIUM COATED

– FLAT –

- For confined and hard-to-reach areas.

PART NUMBER	SIZE DIA (INCHES)	GRIT	MAX SPEED RPM
815304	2	36	30,000
815305	2	60	30,000
815306	2	80	30,000
815307	2	120	30,000
815308	3	36	20,000
815309	3	60	20,000
815310	3	80	20,000
815311	3	120	20,000

2" TEST KIT
Part No. 815300
Each kit contains
(1) 36, 60, 80 & 120 grit disc
plus (1) disc holder pad

3" TEST KIT
Part No. 815301
Each kit contains
(1) 36, 60, 80 & 120 grit disc
plus (1) disc holder pad

– FLEXIBLE –

- For contoured and irregular surfaces.

PART NUMBER	SIZE DIA (INCHES)	GRIT	MAX SPEED RPM
815312	2	36	30,000
815313	2	60	30,000
815314	2	80	30,000
815315	2	120	30,000
815316	3	36	20,000
815317	3	60	20,000
815318	3	80	20,000
815319	3	120	20,000

2" TEST KIT
Part No. 815302
Each kit contains
(1) 36, 60, 80 & 120 grit disc
plus (1) disc holder pad

3" TEST KIT
Part No. 815303
Each kit contains
(1) 36, 60, 80 & 120 grit disc
plus (1) disc holder pad

– HOLDERS –

PART NUMBER	SIZE DIA (INCHES)
811617	2
811618	3

E-Z ABRASIVE MOUNTED FLAP WHEELS

Achieve a uniform finish on steel, aluminum, wood, plastic, acrylics, stainless steel & fiberglass.

- Excellent for contoured surfaces and hard to reach areas.
- Unique design assures smoother running at higher speeds.
- Special non-loading, aluminum oxide, resin bond cloth.

PART NUMBER	GRIT	SIZE	MAX RPM
815136	60	1 x 1	25,000
815137	80	1 x 1	25,000
815138	120	1 x 1	25,000
815324	60	1-1/2 x 1	25,000
815325	80	1-1/2 x 1	25,000
815326	120	1-1/2 x 1	25,000

PART NUMBER	GRIT	SIZE	MAX RPM
815139	60	2 x 1	25,000
812425	80	2 x 1	23,000
815140	120	2 x 1	23,000
815141	60	3 x 1	20,000
815142	80	3 x 1	20,000
815143	120	3 x 1	20,000

SILICONE CARBIDE SCREENCLOTH

Removes rust, corrosion, burrs, paint and grease on metal, wood, or plastic.

- Long lasting, reusable, use wet/dry.
- Heavy duty nylon fabric coated on both sides with Silicone Carbide abrasive.
- Open mesh prevents clogging, grit lasts longer.
- Excellent for cleaning brake linings.
- Polishes aluminum, steel & fiberglass.
- Use both sides for maximum economy.

Part No. 812198 6
180 Grit (9 x 11 sheets)

SILICONE CARBIDE SCREENCLOTH ASSORTMENT

Part No. 812440

Working & polishing grits, all in one easy-to-use, sturdy dispenser box.

Replacement Rolls

PART NUMBER	GRIT	SIZE	GRADE
812444	80	1-1/2 x 10 yd	Coarse
812445	120	1-1/2 x 10 yd	Medium
812446	180	1-1/2 x 10 yd	Fine

SILICONE CARBIDE SCREENCLOTH DISPENSER ROLLS

GRIT	PART NUMBER 1-1/2" x 25 ft.	PART NUMBER 1-1/2" x 25 yd.	GRADE
80	812442	812452	Coarse
120	812199	812451	Medium
180	812443	812450	Fine

FASTCUT WET or DRY SHEETS

(wet sanding with water)

Surface sanding, feather-edging, old finishes

PART NUMBER	GRIT	SIZE (INCHES)	
812175	600A	9 x 11	25
812189	400	9 x 11	25
812190	320	9 x 11	25
812191	220	9 x 11	25

- Special, long lasting silicone carbide coating.
- Sheets stay flexible and cut fast.

CARBORUNDUM: "Fastcut" Waterproof Paper, Silicone Carbon
NORTON: Speed wet or Tufbak Durite Paper
3M: Wet or Dry, Softback Tri-M-Ite Paper Type "W"

– ASSORTMENT AVAILABLE –
Part No. 812006
(10) - 600A grit (15) - 320 grit
(15) - 400 grit (10) - 220 grit
4 GRITS • 50 PIECES

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COATED ABRASIVES

EMERY CLOTH SHEETS

General purpose metal sanding.

PART NUMBER	GRIT	SIZE (INCHES)	QTY
812186	80	9 x 11	25
812185	120	9 x 11	25
812184	180	9 x 11	25

– ASSORTMENT AVAILABLE–
Part No. 812005
(9) - 80 grit (8) - 120 grit (8) - 180 grit
3 GRITS • 25 PIECES

- Quick rust removal.
- Made of long-lasting Aluminum Oxide.
- For dry use only.

EMERY CLOTH UTILITY ROLLS

Deburring, cleaning, removing rust and smoothing rough spots.

- Long lasting Aluminum Oxide.
- For dry use only.

GRIT	PART NUMBER 1" x 50 ft.	1" x 50 yd.	1-1/2" x 50 ft.	1-1/2" x 50 yd.	2" x 50 ft.	2" x 50 yd.
80	812338	811624	812139	811630	812346	811633
120	812195	811623	812138	811629	812196	811632
150	812339	811622	812343	811628	---	---
180	812340	811621	812137	811627	---	811631
240	812341	811620	---	811626	---	---
320	812342	---	812345	811625	---	---

CROCUS CLOTH SHEETS

Smooth polishing & finishing of all machined surfaces.

- Superfine crocus powder.
- Use dry or with oil as lubricant.

PART NUMBER	GRIT	DIA. (INCHES)	QTY
812187	FINE	9 x 11	25

CARBORUNDUM: Flexback Crocus Cloth
NORTON: Crocus Cloth
3M: Crystal Crocus Cloth

FASTCUT SANDING SHEETS

Shaping & finishing plastic filler and feather-edging, deburring metal, clean-up and wood finishing.

- Open coat resists loading.
- Aluminum oxide coated to paper backing.

PART NUMBER	GRIT	SIZE (INCHES)	QTY
812174	120	9 x 11	25
812188	80	9 x 11	25
811634	40	9 x 11	25
811638	80	3 x 8	100
811640	40	3-2/3 x 9	50

CARBORUNDUM: "Fastcut" Paper-Aloxite Open
NORTON: Adalox Paper-Open coat
3M: Production Cabinet Paper Open Coat

NON LOADING SANDPAPER

Excellent for dry sanding

- Specially treated with Zinc Stearate.

PART NUMBER	GRIT	DIA. (INCHES)	QTY
815158	180A	9 x 11	25
815161	100C	9 x 11	25

3M STIKIT GOLD DISCS – ROLLS

PART NUMBER	GRIT	DIA. (INCHES)	QTY
901417	P500	5	175/box
901419	P400	5	175/box
901420	P320	5	175/box
901421	P280	5	175/box
901422	P240	5	175/box
901423	P220	5	175/box
901424	P180	5	175/box
901425	P150	5	175/box
901426	P120	5	175/box
901427	P100	5	175/box
901428	P80	5	175/box

PART NUMBER	GRIT	DIA. (INCHES)	QTY
901435	320A	6	175/box
901439	180A	6	175/box

- Durable and long lasting.
- Available in a full range of grits in "A" weight, comes in roll form.
- Pressure sensitive adhesive for easy application and removal.

PLUMBERS ROLLS

Used to clean copper tubing and fittings.

E-Z CLEAN CLOTH ROLL

- Water resistant.
- Aluminum oxide double bonded to cloth backing for durability.
- Fast cleaning.
- Long lasting.
- 120-J grit.
- Packed in dispenser box.

Part No. 812447
1-1/2" x 10 yds.

GRIP-KUT MESH CLOTH ROLL

- 100% waterproof.
- Aluminum oxide on both sides provides long lasting sharp cutting.
- Open-mesh coated on a synthetic nylon backing.
- Reuseable, just rinse in water or tap against hard surface.
- 180 grit.
- Packed in dispenser box.

Part No. 812448
1-1/2" x 5 yds.

3M STIKIT GREEN DISC ROLLS

- More durable and longer lasting than most disc products.
- Pressure sensitive backing for easy application.
- Comes in roll form.

PART NUMBER	GRIT	DIA. (INCHES)	QTY
901506	80D	6	100

3M STIKIT DISC PAD

- Made for use withSTIKIT discs.
- Vinyl pad face provides good adhesion, and easy disc removal.
- Lightweight, shock resistant and well balanced.
- Maximum RPM is 7,000.

PART NUMBER	DIA (INCHES)	QTY
905576	6	ea

3M SANDING SHEETS

PRODUCTION PAPER SHEETS (Open Coat)

- Dry sand only by machine or by hand.
- Resists loading and works well for shaping and finishing plastic filler and feather-edging.

PART NUMBER	GRIT	DIA. (INCHES)	QTY
902135	80D	2-3/4 x 17-1/2	100/box

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COATED ABRASIVES

3M SANDING SHEETS

WET OR DRY TRI-M-ITE PAPER SHEETS

- Use wet or dry for sanding old finishes, fine feather-edging and surface sanding.
- Stays flexible and cuts fast.

Used on various disc machines for:
- Sanding old finishes.
- Fine feather-edging.
- Sanding primer surfaces.

PART NUMBER	GRIT	DIA. (INCHES)	QTY
902000	600A	9x11	50/box
902002	400A	9x11	50/box
902004	320A	9x11	50/box
902007	220A	9x11	50/box

BOLT ON FAST CUT GRINDING DISCS

- Closed coat - resists loading and glazing.
- Designed for fast cutting and uniform finishing.
- Used for metal or plastics, sanding and paint stripping.
- Maximum safe operating speed 5000 RPM.
- Aluminum oxide abrasive coated, to fiber backing.

PART NUMBER	QTY	GRIT	SIZE (INCHES)	HOLE SIZE (INCHES)
815330	5	24	4-1/2	7/8
815331	5	36	4-1/2	7/8
815332	5	50	4-1/2	7/8
815333	5	60	4-1/2	7/8
815334	5	80	4-1/2	7/8
815335	5	100	4-1/2	7/8
815336	5	120	4-1/2	7/8

PART NUMBER	QTY	GRIT	SIZE (INCHES)	HOLE SIZE (INCHES)
815337	5	36	5	7/8
815144	6	24	5	7/8
815145	6	120	7	7/8
815146	6	100	7	7/8
815147	6	80	7	7/8
815148	6	60	7	7/8
815149	6	50	7	7/8

PART NUMBER	QTY	GRIT	SIZE (INCHES)	HOLE SIZE (INCHES)
812192	6	36	7	7/8
812193	6	24	7	7/8
812194	6	16	7	7/8
812132	6	24	9	7/8
812133	6	36	9	7/8

SPIRAL BANDS

- Extra durable - inner cloth liner adheres to band.
- Eliminates slippage with cloth inner liner.
- Cuts cost - no tooling for operator.
- Eliminates lap marks.
- Fast cutting - leaves a smooth even superior finish.
- Aluminum oxide, x-weight cloth.
- Eliminates tedious, time consuming hand work in production, toolroom, maintenance and automotive applications.
- Used on portable drills, die grinders. straight shaft and angle grinders.
- Provides smooth chatter free operation.

Ideal for grinding, blending, stock removal, deburring, finishing, polishing, shaping, smoothing, on flat and contoured surfaces in hard-to-reach places.

Part No. 501702
49 pieces • 16 items • 12050 steel tray

815451	815464	815469	815478
815452	815465	815470	815480
815454	815466	815476	815481
815455	815468	815477	815482

Numbers in assortment

SIZE DIA. x LENGTH	GRIT	PART NUMBER	QTY
1/2 x 1/2	60	**815460**	20
1/2 x 1/2	80	**815461**	20
1/2 x 1/2	120	**815462**	20
3/4 x 1	36	**815463**	20
3/4 x 1	60	**815464**	20
3/4 x 1	80	**815465**	20
3/4 x 1	120	**815466**	20
1 x 1	36	**815467**	20
1 x 1	60	**815468**	20
1 x 1	80	**815469**	20
1 x 1	120	**815470**	20
1 x 1	180	**815471**	20

SIZE DIA. x LENGTH	GRIT	PART NUMBER	QTY
1 x 1-1/2	60	**815472**	20
1 x 1-1/2	80	**815473**	20
1 x 1-1/2	120	**815474**	20
1-1/2 x 1	36	**815475**	20
1-1/2 x 1	60	**815476**	20
1-1/2 x 1	80	**815477**	20
1-1/2 x 1	120	**815478**	20
2 x 1	36	**815479**	20
2 x 1	60	**815480**	20
2 x 1	80	**815481**	20
2 x 1	120	**815482**	20

SOLID RUBBER DRUMS

- Balanced for maximum performance.
- Controlled expansion.
- Constructed of 60 durometer live rubber.
- 1/4" shaft diameter.
- Tightening hex nut expands rubber and locks on bands for snug fit.

Used with spiral bands.

SIZE DIA. X LENGTH	RPM'S MAX.	PART NUMBER	QTY
1/2 x 1/2	30,000	**815450**	1
3/4 x 1	19,000	**815451**	1
1 x 1	18,000	**815452**	1

SIZE DIA. X LENGTH	RPM'S MAX.	PART NUMBER	QTY
1 x 1-1/2	10,000	**815453**	1
1-1/2 x 1	14,000	**815454**	1
2 x 1	11,000	**815455**	1

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COATED ABRASIVES

CARTRIDGE ROLLS

Used on portable drills, die grinders, straight shaft and angle grinders.

FEATURES / BENEFITS

- Aluminum Oxide resin bond cloth.
- Multi-layer coiled construction.
- Exposes sharp new cutting abrasives as each layer wears.
- 26,000 max. rpm's.
- Superior quality glue - stops loose ends.
- Ideal for hard-to-reach places.

APPLICATIONS

- Ideal for finishing operations.
- Irregular concaves, contours, dead-end holes, channels.
- Deburring, blending tool mark removal.
- Flash removal.

– STRAIGHT –

GRIT	DIA.	OVERALL LENGTH	ARBOR	PART NUMBER	QTY	USE MANDREL NUMBER
120	3/8	1-1/2	1/8	**812475**	25	**812499**
80	3/8	1-1/2	1/8	**812476**	25	**812499**
60	3/8	1-1/2	1/8	**812477**	25	**812499**
120	1/2	1	1/8	**812478**	25	**812498**
80	1/2	1	1/8	**812479**	25	**812498**
60	1/2	1	1/8	**812480**	25	**812498**
120	1/2	1-1/2	1/8	**812481**	25	**812499**
80	1/2	1-1/2	1/8	**812482**	25	**812499**
60	1/2	1-1/2	1/8	**812483**	25	**812499**

– FULL TAPER –

GRIT	DIA.	OVERALL LENGTH	ARBOR	PART NUMBER	QTY	USE MANDREL NUMBER
120	3/8	1	1/8	**812490**	20	**812498**
80	3/8	1	1/8	**812491**	20	**812498**
60	3/8	1	1/8	**812492**	20	**812498**
120	1/2	1-1/2	1/8	**812493**	20	**812499**
80	1/2	1-1/2	1/8	**812494**	20	**812499**
60	1/2	1-1/2	1/8	**812495**	20	**812499**

CARTRIDGE ROLL MANDRELS

PILOT DIA.	SHANK DIA.	PILOT LENGTH	PART NUMBER		SHANK LENGTH
1/8	1/4	3/4	**812498**	1	1-1/8
1/8	1/4	1	**812499**	1	1-1/8

TRIM-KUT DISCS

Edge grinding, weld and brazing surface preparation, remove paint, body filler, rust and corrosion, deburring and polishing.

- Self trimming - constant new cutting surface.
- Trim-Kut is designed to run cooler and work faster than any other type of sanding discs.
- Tough aluminum oxide grain is impregnated into durable plastic (polyamide) backing.
- Extremely lightweight for power tools.
- Use all the way to the core.
- No tooling spin-on and spin-off. That Quick!
- Used with high speed pneumatic tools, electric angle grinders, and low speed electric drills.
- Works on wood, metal, fiberglass, glass, stone, plastics, ceramics, non-ferrous metals, and composites.
- Trim down feature eliminates need for smaller disc for hard to reach areas.

PART NUMBER	DIAMETER INCHES	GRIT	MAX RPM	QTY
812458	3	24 Ex. Coarse	21,000	5
812460	3	36 Coarse	21,000	5
812461	3	60 Medium	21,000	5
812462	3	120 Fine	21,000	5
812459	5	24 Ex. Coarse	12,000	5
812463	5	36 Coarse	12,000	5
812464	5	60 Medium	12,000	5
812465	5	120 Fine	12,000	5

ALL SIZES AVAILABLE IN A SUPER VALUE PAK

25 per box
plus 1/4" mandrel

1/4" mandrel, used with any 1/4" drill chuck

Part No. 812466

7/16-20 adapter for pistol grip air tool

Part No. 812467

5/8-11 adapter

Part No. 812468

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COATED ABRASIVES

TWIST-LOCK MINI GRINDING DISCS

Edge grinding, weld and brazing surface preparation, remove paint, body filler, rust and corrosion, deburring and polishing.

- **Environmently friendly - manufactured with non carcinogenic bonding agents.**
- **Resin fibre discs outlast and outperforms cloth discs.**
- **Resist stretching, shedding and grain loss.**
- **Maintain their flexibility to work in contours.**
- **Better cutting action, self sharpening, efficient grinding.**
- **Improved productivity by reducing change over and down time.**
- **Reduce heat and loading, extend disc life.**
- **120 & 100 grit used for brake rotors.**
- **36 & 24 grit used to clean up welds.**
- **Aluminum oxide grain to fibre backed substrates.**
- **Outperforms, outlasts cloth 2 & 3 ply discs.**

PART NUMBER	QTY	DIA. INCHES	GRIT	MAX RPM	APPLICATION GUIDE
811752*	25	2	120	25,000	General purpose
811750*	25	2	80	25,000	General purpose
811685*	10	2	50	25,000	Blending, rust removal
811686*	10	2	36	25,000	Weld removal, grinding, deburring
811687*	10	2	24	25,000	Weld removal, grinding, deburring
811688†	10	3	120	20,000	Smooth sanding/polishing wood, plastics & fiberglass
811689†	10	3	100	20,000	Deburring/blending ferrous & non-ferrous metals
					Produces non-directional scratch patterns on surface of brake rotors
811690†	10	3	50	20,000	Blending, rust removal
811691†	10	3	36	20,000	Weld removal, grinding, deburring
811692†	10	3	24	20,000	Weld removal, grinding, deburring

***2" use holder no. 811617** **†3" use holder no. 811618**

ALL SIZES AVAILABLE IN A SUPER VALUE PAK
25 per box

3M ROLOC™ GRINDING DISCS

For fast removal of surface imperfections, rust, scale, excess weld material in tight, restricted areas.

- **Quick change, threaded fastener mounting system. 1/2 turn on, 1/2 turn off.**
- **Also works on twist-lock disc holders.**
- **Use with any 1/4" drill or air tool.**
- **Available in two sizes with three different grades.**
- **Discs are color coded: on backing plate Grade 50 - green, Grade 36 - brown, Grade 24 - black**

Part No. 501632
32 pieces • 8 items
12061 steel tray

901396	901406	905539
901397	901407	905540
901398	901408	

Numbers in assortment

PART NUMBER	GRIT/ GRADE	DIA.	DISC HOLDER	MAX RPM	QTY
901396	50	2"	**905539***	20,000	25
901397	36	2"	**905539***	20,000	25
901398	24	2"	**905539***	20,000	25
901406	50	3"	**905540***	18,000	25
901407	36	3"	**905540***	18,000	25
901408	24	3"	**905540***	18,000	25

***1/4" shaft diameter**

3M ROLOC™ BRAKE ROTOR SURFACING DISCS

Designed to produce a non-directional scratch pattern as a final step after turning brake rotors.

- **Helps eliminate brake squeal.**
- **Improves stopping power.**
- **May be used while brake rotor is on or off of brake lathe.**
- **Disc pad with 1/4" shank attaches to any 1/4" drill or air tool.**
- **120 Fine Grit - best suited for conditioning rotors.**
- **Regalite sanding disc carbonate mineral lasts longer and produces faster, consistent cuts.**

Starter Kit

Part No. 901410
Includes 1 backup disc pad and 9 Regalite Roloc Discs

Disc Refills

Part No. 901411
Pack of 12 discs

FIBER DISCS

Grinding and Blending

- Aluminum oxide grain.
- General purpose.
- Closed coat structure for more material removal and better finishing.

METAL
Ferrous and/or non-ferrous metals.

SIZE	GRIT	PART NUMBER	PK. PER BOX
4-1/2 x 7/8	**24**	**811501**	25
4-1/2 x 7/8	**36**	**811502**	25
4-1/2 x 7/8	**60**	**811503**	25
7 x 7/8	**36**	**811504**	25

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THOR TYPE 27 DEPRESSED CENTER GRINDING WHEELS

THOR grinding wheels are formulated to deliver the highest possible productivity and performance, whether it is used for beveling, weld or edge grinding applications.

- Special aluminum oxide grain
- Externally reinforced with fiberglass layers to provide ultimate safety.
- Fast, burr-free cutting.
- Specifically designed for use on right angle grinders

Made in USA

• GRINDING APPLICATIONS •

These wheels are for general purpose grinding where metal needs to be removed.

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	UNHUBBED PART NUMBER	QTY
4	1/4	5/8	15,000	**A24N**	Ferrous Metals, Fast Cut	**811693**	25
4-1/2	1/4	7/8	13,300	**A24N**	Ferrous Metals, Fast Cut	**811694**	25
4-1/2	1/4	7/8	13,300	**A24R**	Ferrous Metals, Long Life	**811695**	25
4-1/2	1/4	7/8	13,300	**AL36N**	Aluminum, Brass, Copper	**811696**	25
5	1/4	7/8	12,200	**A24N**	Ferrous Metals, Fast Cut	**811711**	25•
5	1/4	7/8	12,200	**A24R**	Ferrous Metals, Long Life	**811697**	25
5	1/4	7/8	12,200	**AL36N**	Aluminum, Brass, Copper	**811712**	25•
7	1/4	7/8	8,500	**A24N**	Ferrous Metals, Fast Cut	**811713**	25•
7	1/4	7/8	8,500	**AL36N**	Aluminum, Brass, Copper	**811714**	25•

• NOT SOS LABEL

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	HEX HUB PART NUMBER	QTY
4-1/2	1/4	5/8-11	13,300	**A24N**	Ferrous Metals, Fast Cut	**811705**	25
4-1/2	1/4	5/8-11	13,300	**A24R**	Ferrous Metals, Long Life	**811706**	25
4-1/2	1/4	5/8-11	13,300	**AL36N**	Aluminum, Brass, Copper	**811716**	25•
7	1/4	5/8-11	8,500	**A24R**	Ferrous Metals, Long Life	**811707**	25
7	1/4	5/8-11	8,500	**AL36N**	Aluminum, Brass, Copper	**811715**	25•

• NOT SOS LABEL

• GRINDING/CUTTING APPLICATIONS •

These wheels are specifically designed to do combination cutting and light grinding within the same application eliminating the need to change wheels or tools. Primarily used in the pipeline industry.

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	PART NUMBER	QTY
4-1/2	1/8	7/8	13,300	A30R	Ferrous Metals, Long Life	811717	25•
6	1/8	7/8	10,200	A30R	Ferrous Metals, Long Life	811718	25•

• NOT SOS LABEL

5/8-11 REUSEABLE ADAPTER

For Right Angle Grinders
Fits both Type 27 & 1 Wheels
with 7/8" Hole.

Part No. 822000

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BONDED ABRASIVES

HEAVY DUTY MOUNTED GRINDING WHEELS

- Most popular for weld grinding of ferrous & non-ferrous material.
- 1/4'' shaft fits most portable tools.
- Made from Aluminum Oxide abrasive in a vitrified bond.

PART NUMBER	ABRASIVE SHAPE & SIZE: ABRASIVE SHAPE NO.	DIA (INCHES)	THICKNESS (INCHES)	MANDREL SIZE: DIA (INCHES)	LENGTH (INCHES)
812725	A-1	3/4	2-1/2	1/4	1-1/2
812726	A-3	1	2-3/4	1/4	1-1/2
812729	A-5	3/4	1-1/8	1/4	1-1/2
812727	A-11	7/8	2	1/4	1-1/2
812738	A-15	1/4	1-1/16	1/4	1-1/2
812728	A-21	1	1	1/4	1-1/2
815119	A-31	1-3/8	1	1/4	1-1/2
815120	A-36	1-5/8	3/8	1/4	1-1/2
812739	A-39	3/4	3/4	1/4	1-1/2
815121	B-52	3/8	3/4	1/8	1-1/2
815122	B-81	3/4	3/16	1/8	1-1/2
815123	W-163	1/4	1/2	1/8	1-1/2
815124	W-182	1/2	1/8	1/8	1-1/2
815125	W-185	1/2	1/2	1/8	1-1/2
815126	W-215	1	1/8	1/8	1-1/2
815127	W-220	1	1	1/4	1-1/2
815128	W-222	1	2	1/4	1-1/2
815129	W-235	1-1/2	1/4	1/4	1-1/2
815130	W-236	1-1/2	1/2	1/4	1-1/2

Part No. 812007
38 pieces • 12 items
12017 steel tray

812726	815120	815125	815128
812727	815121	815126	815129
812728	815123	815127	815130

Numbers in assortment

812725 812726 812729 812727 812738

812728 815119 815120 812739 815121

815122 815123 815124 815125 815126

815127 815128 815129 815130

HEAVY DUTY GRINDING WHEELS

ENGINEERED FOR RAPID CUTTING AND LONG LIFE

Do not use grinding wheels that have been dropped, chipped or cracked. 6, 7 & 8 wheels come complete with telescopic bushing for 1/2'', 5/8'', 3/4'' & 1'' shafts.

For Use On All Stationary Grinders

FINE GRIT	MEDIUM GRIT	COARSE GRIT	DIA METER & WIDTH (INCHES)	MAX RPM
812181	**812182**	**812183**	6 x 3/4	4138
812310	**812311**	**812312**	6 x 1	4138
	812314	**812315**	7 x 1	3600
	812317	**812318**	8 x 1	3600
812305*	**812306***	**812307***	10 x 1	2483

***10'' wheels have 1-1/4'' arbor & comes with 3/4'' - 1'' reduction bushings.**

GRINDING WHEEL DRESSER

SOLID and DURABLE CONSTRUCTION

Part No. 811665

Rpl. Wheel Order Part No. 811666

- **Designed for dressing, truing, sharpening and removing glaze from solid abrasive wheels.**
- **Used on wheels up to 10'' diameter.**

MASONRY CUT OFF WHEELS

SILICONE CARBIDE

PART NUMBER	DIA (INCHES)	THICK (INCHES)	MAX SAFE RPM	HOLE SIZE (INCHES)
815108	12	1/8	5,100	1
815109	14	1/8	4,400	1

3M GREEN CORPS CUT-OFF WHEELS

Use to cut auto body sheet metal, frame rails, exhaust work, clamps and rusted bolts.

- High performance, long life.
- For all utility type cut-off tools
- Available in two thicknesses.
- Do not use without guards.

SIZE	PART NUMBER	PK. PER BOX
3" x 1/32" x 3/8"	**901989**	5
3" x 1/16" x 3/8"	**901990**	5

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ZEUS CUT-OFF WHEELS

ZEUS cut-off wheels are designed to cut faster, cooler and freer requiring less power. Designed to be flexible under stressful and binding applications, these wheels are ideal for maintenance departments, welding shops, automotive shops and metal fabrication.

- Special aluminum oxide grain
- Externally reinforced with fiberglass layers to provide ultimate safety.
- Fast, burr-free cutting.
- Specifically designed for use on right angle grinders

Made in USA

TYPE 1 Wheels for ELECTRIC and AIR GRINDERS

Small diameter cut-off wheels are designed to perform on a variety of metal applications.

Unsurpassed in quality and performance these wheels are made from Premium Ceramic and Zirconia Grain Mix and are contaminate INOX Free.

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	PART NUMBER	QTY
3	.035	3/8	25,450	**SGA60U**	S/S & Alloys, Fast Cutting	**811670**	50
3	1/16	3/8	25,450	**SGA46U**	S/S & Alloys, Long Lasting	**811671**	50

S/S= Stainless Steel

When dependability and flexibility are a must, these fast, clean straight cutting and long lasting wheels are tops in the industry.

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	PART NUMBER	QTY
3	1/16	3/8	25,450	**A46T**	Ferrous Metals	**811720**	10 •
3	1/8	3/8	25,000	**A36T**	Ferrous Metals	**812435**	1 •
3	.035	3/8	25,450	**TA60T**	Ferrous Metals & S/S	**811721**	50
3	1/16	3/8	25,450	**TA46T**	Ferrous Metals & S/S	**811682**	50
4	.035	3/8	19,000	**TA60T**	Ferrous Metals & S/S	**811672**	50
4	1/16	3/8	19,000	**TA46T**	Ferrous Metals & S/S	**811673**	50

S/S= Stainless Steel • NOT SOS LABEL

TYPE 1 WHEELS for PORTABLE CHOP SAWS

The following high performance cut-off wheels have been developed for low horsepower chop saws to perform on a wide variety of metals and tough job applications. All wheels are externally reinforced for increased safety and unsurpassed performance.

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	PART NUMBER	QTY
14	3/32	1	4,366	**A46T**	Metal Studding & Thin Rebar	**811801**	10 •
14	3/32	1	4,366	**A36R**	Ferrous Metals & Heavy Rebar	**811674**	10

S/S= Stainless Steel • NOT SOS LABEL

TYPE 1 WHEELS for PORTABLE HIGH SPEED SAWS

Manufactured to perform under the toughest job applications. These wheels are externally reinforced with extra heavy fiberglass for additional strength, protecting the wheel against increased side load pressures.

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	PART NUMBER	QTY
12	1/8	20MM	6,360	**A24R**	Ferrous Metals, Long Life	**811664**	10 •
14	1/8	1	5,460	**A24R**	Ferrous Metals, Long Life	**811683**	10 •
14	1/8	20MM	5,460	**A24R**	Ferrous Metals, Long Life	**811684**	10 •

• NOT SOS LABEL

TYPE 1 WHEELS for ANGLE GRINDERS and CIRCULAR SAWS

These wheels provide effortless cutting and deliver the most cost efficient cutting solutions.

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	PART NUMBER	QTY
4	.040	7/8	15,000	**TA60T**	Ferrous Metals & S/S	**811662**	25
4-1/2	.045	7/8	13,300	**TA60U**	Ferrous Metals & S/S	**811667**	25
5	.045	7/8	12,200	**TA60U**	Ferrous Metals & S/S	**811668**	25
6	.045	7/8	10,200	**TA60U**	Ferrous Metals & S/S	**811669**	25

S/S= Stainless Steel

DEPRESSED CENTER TYPE 27 WHEELS for RIGHT ANGLE GRINDERS

Use these wheels for multiple product applications. Using your right angle grinder for cutting, these depressed center wheels will allow you to reach the most difficult cutting positions producing fast, burr-free cuts.

SIZE "A" DIA.	"B" WIDTH	"C" BORE	MAX RPM	GRAIN/ GRIT	USE	DEPRESSED CENTER PART NUMBER	QTY
4	.040	5/8	15,000	**TA60T**	Ferrous Metals, Long Life	**811698**	25
4-1/2	.045	7/8	13,300	**TA60U**	Ferrous Metals & S/S	**811699**	25
4-1/2	.045	7/8	13,300	**SGA60U**	S/S & High Tensile Alloys	**811702**	25
4-1/2	.045	7/8	13,300	**AL46N**	Aluminum, Brass, Copper	**811703**	25
5	.045	7/8	12,200	**TA60U**	Ferrous Metals & S/S	**811700**	25
6	.045	7/8	10,200	**TA60U**	Ferrous Metals & S/S	**811701**	25
7	.040	7/8	8,500	**TA60T**	Ferrous Metals, Long Life	**811704**	25

S/S= Stainless Steel

5/8-11 REUSEABLE ADAPTER

For Right Angle Grinders
Fits both Type 27 & 1 Wheels
with 7/8" Hole.

Part No. 822000

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NON-WOVEN ABRASIVES

100% NON-WOVEN FLAP WHEELS

Used for metal finishing, oxidation and coating removal, decorative finishes on different metals, deburring.

- Constructed of non-woven fiber with abrasive grain.
- Waterproof - may be used with lubricants.
- Resists loading and over-cutting.
- Material breaks down evenly providing consistent finishes.
- Ideal for operations where critical tolerances may not be disturbed.
- Mounted on 1/4" mandrel.
- Used on straight die grinder.

PART NUMBER	GRIT	SIZE	MAX RPM
815385	Extra Fine	2 x 1	12,000
815386	Fine	2 x 1	12,000
815387	Medium	2 x 1	12,000
815388	Coarse	2 x 1	12,000
815389	Extra Fine	2 x 2	12,000
815390	Fine	2 x 2	12,000

PART NUMBER	GRIT	SIZE	MAX RPM
815391	Medium	2 x 2	12,000
815392	Coarse	2 x 2	12,000
815393	Extra Fine	3 x 2	7,500
815394	Fine	3 x 2	7,500
815395	Medium	3 x 2	7,500
815396	Coarse	3 x 2	7,500

INTERLEAF FLAP WHEELS

Used for metal finishing, oxidation and coating removal, decorative finishes on different metals, deburring and grain finishing.

- Alternating flaps of non-woven fiber and aluminum oxide coated abrasive arranged radially.
- Less conformable than woven flap wheels.
- Removes more stock.
- Breaks down evenly providing consistent finishes.
- Provides blending action while leaving final finish.
- Mounted on 1/4" mandrel.
- Used on small straight die grinder.

PART NUMBER	GRIT	SIZE	MAX RPM
815400	60 Coarse	2 x 1	12,000
815401	120 Medium	2 x 1	12,000
815402	180 Fine	2 x 1	12,000
815403	240 Extra Fine	2 x 1	12,000
815404	60 Coarse	2 x 2	12,000
815405	120 Medium	2 x 2	12,000

PART NUMBER	GRIT	SIZE	MAX RPM
815406	180 Fine	2 x 2	12,000
815407	240 Extra Fine	2 x 2	12,000
815408	60 Coarse	3 x 2	7,500
815409	120 Medium	3 x 2	7,500
815410	180 Fine	3 x 2	7,500
815411	240 Extra Fine	3 x 2	7,500

3M CLEAN 'N STRIP DISCS

For deburring, removing paint, rust or scale, conditioning metal, for cleaning pinchwelds, weatherstrip channels and drip moldings, for removing paint from "dings" and "chips".

- Use on side for fast surface cleaning instead of wire brushes or sandpaper.
- Tough, abrasive impregnated material resists gouging, conforms to contours.
- 1/4" diameter mandrel shaft fits all 1/4" or 3/8" electric or air tool (for use under 6,000 r.p.m.). 2" overall mandrel length.

PART NUMBER	DESCRIPTION	QTY
907460	4" dia. disc*	3
907491	1/4" dia. mandrel	1

***Discs and Mandrels sold separately.**

SURFACE PREP DISCS WITH AN EDGE

Easy blending of irregular shapes, corners and inside radius.

- Reaches into corners and curves.
- Interchanges with Roloc style.
- Eliminates added finishing steps by hand.
- Provides a consistent finish on both flat and irregular surfaces.

NOTE: Must Be Used With Special Disc Holder

PART NUMBER	DIA.	GRAIN	GRADE	COLOR	MAX RPM	QTY
811371	2	Aluminum oxide	Coarse	Brown	18,000	10
811372	2	Aluminum oxide	Medium	Maroon	18,000	10
811373	2	Aluminum oxide	Very Fine	Blue	18,000	10
811471	3	Aluminum oxide	Coarse	Brown	12,000	5
811472	3	Aluminum oxide	Medium	Maroon	12,000	5
811473	3	Aluminum oxide	Very Fine	Blue	12,000	5
Holders	2"	811357	3"	811360	Holders (have 1/4" shank)	

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NON-WOVEN ABRASIVES

SURFACE PREPARATION DISCS

Surface Preparation Discs are ideally suited for pre-paint finishing, removing rust, oxidation, and flashings and removing gasket residue from engine blocks, heads, valve covers and transmission housings.

- **Available in three popular styles: Posi-Grip, Quick-Lock and Twist-Lock.**
- **Bonded aluminum oxide grain provides constant uniform cutting action.**
- **Tough, reinforced nylon web backing insures long service life.**
- **Special abrasive coating and bonding resin resists heat build-up.**
- **Available in both 3M brand or value priced brand (except Quick-Lock).**

POSI-GRIP

HOOK and LOOP (VELCRO) STYLE MOUNTING SYSTEM

Best for mild contours and flat finishing applications.
Interchanges with 3M Scotchbrite Discs.

– STEEL PARTS –

PART NUMBER	3M NUMBER	DIA. (INCHES)	GRIT/ COLOR	DISC HOLDER	MAXIMUM RPM	QTY
811603	907457	2	medium/maroon	811607*	23,000	25
811605	907453	2	coarse/brown	811607*	23,000	25
811659	907456	3	medium/maroon	811661*	20,000	25
811660	907455	3	coarse/brown	811661*	20,000	25
811604	907451	4	medium/maroon	811608*	18,000	10
811606	907450	4	coarse/brown	811608*	18,000	10

***1/4" shaft diameter** — **Disc Holder - Sold 1 Per Box**

– ALUMINUM PARTS –

3M NUMBER	DIA. (INCHES)	GRIT/ COLOR	DISC HOLDER	3M DISC HOLDER	QTY
907509	2	fine (SFN) gray	811607	907494	25
907508	2	medium (VFN) blue	811607	907494	25
907507	3	fine (SFN) gray	811661	907493	25
907506	3	medium (VFN) blue	811661	907493	25
907505	4	fine (SFN) gray	811608	907492	10
907504	4	medium (VFN) blue	811608	907492	10

(SFN) Super Fine **(VFN) Very Fine** — **Disc Holder - Sold 1 Per Box**

TWIST-LOCK

THREADED FASTENER ATTACHMENT SYSTEM

Best for sharp contours, angles and edges. Discs have hard nylon threaded fasteners anchored in nylon web.
Twist-Locks interchange with 3M Roloc™ discs.

– STEEL PARTS TWIST-LOCK TEST KITS –

Part No. 811655	Part No. 811656	Part No. 811657
(3) - 2" med. discs	(3) - 3" med. discs	(2) - 4" med. discs
(3) - 2"coarse discs	(3) - 3"coarse discs	(2) - 4"coarse discs
(1) disc holder	(1) disc holder	(1) disc holder

– STEEL PARTS –

PART NUMBER	3M NUMBER	DIA. (INCHES)	GRIT/ COLOR	DISC HOLDER	MAXIMUM RPM	QTY
811644†	907481	2	medium/maroon	811617*	20,000	25
811645†	907480	2	coarse/brown	811617*	20,000	25
811646	907486	3	medium/maroon	811618*	18,000	25
811647	907485	3	coarse/brown	811618*	18,000	25
811648	907483	4	medium/maroon	811619*	15,000	10
811649	907482	4	coarse/brown	811619*	15,000	10

***1/4" shaft diameter** **†Top sellers** — **Disc Holder - Sold 1 Per Box**

– ALUMINUM PARTS –

3M NUMBER	DIA. (INCHES)	GRIT/ COLOR	DISC HOLDER	QTY
907516	2	fine (SFN) gray	811617	25
907515	2	medium (VFN) blue	811617	25
907514	3	fine (SFN) gray	811618	25
907513	3	medium (VFN) blue	811618	25
907512	4	fine (SFN) gray	811619	10
907511	4	medium (VFN) blue	811619	10

(SFN) Super Fine **(VFN) Very Fine** — **Disc Holder - Sold 1 Per Box**

GASKET CLEANER

Cleans all hard to reach gasket surfaces.

Use with a die grinder to quickly clean gasket surfaces on Dodge pickups, oil pans, water pumps and other inaccessible applications. The tool is equipped with a floating guide shaft so the user can steer the abrasive pad around the gasket surface. Replaceable abrasive pad works in seconds.

Replacement Pad
Part No. 214012

Part No. 214011

TWIST-LOCK DISCS ASSORTMENTS

APPLICATIONS

- **Remove gasket residue from: engine blocks, heads, valve covers and transmission housings.**
- **Pre-paint finishing of automotive metals.**
- **Remove or blend out parting lines.**
- **Remove rust, corrosion, oxidation & flashing.**
- **Blend-out coated abrasive scratches.**
- **Surface polishing and refinement.**
- **Impart a satin finish on extruded aluminum.**

FEATURES / BENEFITS

- **Thick layer of Aluminum Oxide Grain bonded to one side of a tough, reinforced, non-woven nylon web backing.**
- **Resists loading and high heat build-up.**
- **Produces uniform finish.**
- **Longer period of use.**
- **Time saver.**
- **Quick 1/2 turn on 1/2 turn off.**

FOR ALUMINUM

FOR STEEL

– FOR STEEL & ALUMINUM –

Part No. 501635
23 pieces • 15 items
12051 steel tray

811617	811646	907512
811618	811647	907513
811619	811648	907514
811644	811649	907515
811645	907511	907516

Numbers in assortment

For Safety Always Wear Goggles and Face Shield when Grinding & Sanding

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NON-WOVEN and MISCELLANEOUS ABRASIVES

STRIP-IT DISCS

APPLICATIONS

- Removal of rusts, oxides and scale, paint, polyurethane & tar.
- Removes coatings such as paint and varnish without loading.
- Ideal for cleaning stone, concrete or marble.
- Great for shipyard weld preparation and coating removal applications.

FEATURES / BENEFITS

- Strip-It's open abrasive surface runs cool and prevents loading.
- Just like 3M Clean 'N Strip.
- Will not overcut workpiece and leaves surface free of contaminants.
- Nylon web combined with silicone and resin.
- Flexible for hard to reach and irregular contours.

STRIP-IT TWIST-LOCK DISC

- Twist-Lock button centers and securely fastens disc.
- Used on die grinders.

SIZE	COLOR	PART NUMBER	QTY	HOLDER NUMBER
2	Black	**811675**	2	**811617**
3	Black	**811676**	2	**811618**

STRIP-IT SPINDLE MOUNTED DISC

- Disc is premounted on 1/4" spindle.
- Used on drill.

SIZE DIA.xTHKNS.xARBOR	COLOR	PART NUMBER	QTY
4 x 1/2 x 1/4	Black	**811681**	2

STRIP-IT RIGHT ANGLE DISC

- Disc is bonded to fiberglass backing for more demanding applications.
- Used on right angle grinders.

SIZE DIA.xARBOR	COLOR	PART NUMBER	QTY	MAX. RPM'S
4 x 5/8	Black	**811677**	2	12,400
4-1/2 x 7/8	Black	**811678**	2	11,000
5 x 7/8	Black	**811679**	2	9,800
7 x 7/8	Black	**811680**	1	7,000

SURFACE CONDITIONING HAND PADS

- Bonded aluminum oxide grain provides constant, long-lasting, cutting and polishing action.
- Replaces steel wool with no rusting, splintering or contamination.
- Tough, heavy duty non-woven material outlasts paper-backed abrasives. Can be used wet or dry; washable and reusable.
- Adaptable to both hand or machine finishing.

113262 **Extra coarse (gray) -** very fast material removal and heavy duty cleaning. Out-cuts all other pads. Can be used to create a decorative scratch finish.

113222 **Medium coarse (green) -** a general duty pad. Ideal for scuffing acrylics and blending paint. Well suited for light duty cleaning, finishing, rust removal and light oxide removal.

113227 **Medium fine (maroon) -** an ideal general purpose pad. For hand blending, cleaning and finishing. Removes rust and corrosion, imparts a satin finish on extruded aluminum. Can be used to clean up printed circuit boards. Use to scuff surface before applying paint or primer/surfacer. Excellent for used car reconditioning, cleaning upholstery, headliners, door pads, chrome & cleaning whitewall tires.

113234 **Fine (gray) -** especially suited for light cleaning and fine finishing of all metals, plastics and fiberglass surfaces. Removes fine burrs on hreaded parts, cleans glass, molds and polishes dies. Ideal for rubbing down primer and sealer coats in woodworking. Also for final sanding of primer/surfacer before applying auto body paint finishes.

– HAND PAD TEST KIT –
Part No. 113299
(2) - extra coarse (2) - medium fine
(2) - medium coarse (2) - fine

PART NUMBER	DESCRIPTION	COLOR	INTERCHANGE 3M	NORTON	ANDERSON	QTY
113262	Extra Coarse	Gray	07446	851	65451	25
113222	Medium Coarse (general purpose)	Green	N/A	668	61768	25
113227	Medium Fine (general purpose)	Maroon	07447	707	60000	25
113234	Fine	Gray*	07448	635	60247	25

***Silicone Carbide**

STEEL WOOL

Clean tools, remove splatters, restores aluminum, clean, polish & remove stains, brighten metal, eliminate rust, strip paint, degloss surfaces, sand wood or metal and so on...

- HUNDREDS OF USES!
- The choice of professionals for cleaning, polishing & refinishing.
- Made in USA, manufactured to the highest quality standards for over 100 years.
- 16 pads per package.

PART NUMBER	GRADE
415210	#0000 - Finishing
415211	#000 - Polishing
415212	#00 - Metal Finishing
415213	#0 - General Purpose
415214	#1 - Automotive
415215	#2 - Paint & Varnish Removal
415216	#3 - Cleaning & Stripping
415217	#4 - Heavy Duty Stripping

BRONZE WOOL

Used for stripping, sanding, smoothing & polishing.

PART NUMBER	GRADE
415222	Fine
415223	Medium
415224	Coarse

- Essential maintenance item for marine and industrial use.
- Won't splinter or rust, resist shedding.
- 3 pads per package.

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MISCELLANEOUS ABRASIVES

3M ROLOC™ BRISTLE DISCS

- **Extra tough plastic bristle brush.**
- **Sweeps away gasketing material and contamination while continually exposing fresh abrasive.**
- **High maximum operating speeds (MOS) allow for use on die grinders and pistol grip grinders. (1" - MOS 30,000) (2" - MOS 25,000 RPM) (3" - MOS 15,000 RPM).**

PART NUMBER	GRIT	DIA.	COLOR	USE ON	QTY
917530	Coarse	1"	Green	Steel	10
917531	Medium	1"	Yellow	Alum/Steel	10
917532	Fine	1"	White	Alum/Steel	10

1" Disc Holder - Order No. 905538

PART NUMBER	GRIT	DIA.	COLOR	USE ON	QTY
907524	Coarse	2"	Green	Steel	10
907525	Medium	2"	Yellow	Alum/Steel	10
907528	Fine	2"	White	Alum/Steel	10

2" Disc Holder - Order No. 905539

PART NUMBER	GRIT	DIA.	COLOR	USE ON	QTY
907526	Coarse	3"	Green	Steel	10
907527	Medium	3"	Yellow	Alum/Steel	10
907529	Fine	3"	White	Alum/Steel	10

3" Disc Holder - Order No. 905540

Part No. 501630
10 pieces • 6 items
12061 steel tray

907524 907526 907539
907525 907527 907540

Numbers in assortment

No more scrapers!
- Bristles ride over surface removing old gasket without gouging.

No more wire brushes!
- Eliminates dangerous loose wires flying back at the technician.

No more chemical strippers!
- Safer for other engine parts and the environment than chemical strippers.

SCOTCH-BRITE™ ROLOC™ BRISTLE DISC VS. THE COMPETITION

FEATURES	ADVANTAGE	BENEFIT
Unitized Seamless Construction	Allows operation at die grinder max. operating speed.	Tech. can use light weight tool of choice - die grinder.
	Vise grip hold on bristles.	Safe operation no flying wires.
	Open construction - non-loading.	Saves time of running dull & loaded disc.
	Extended life outlasting competitive discs.	Saves money.
Soft Bristle Design	Rides over gasketing surface removing only gasket.	Saves cost of rework from damage to gasketing surface.
	Tough on gasket not on gasketing surface - won't gouge.	Saves rework resulting from gouging on surface.
	Removes gasket while riding over surface, no metal shavings.	Saves time and money of rework.
	Remove gasket material without hazardous waste & E.P.A. concern.	Saves cost, safer shop operations.

3M™ 4-1/2" BRISTLE DISCS

Used for coating removal, weld preparation, cleaning, scuffing, burr removal.

- **Patented abrasive-filled bristles apply a continuous, fresh supply of sharp 3M™ Regalite™ mineral to the workpiece. Resists loading with coatings, dirt, and debris for longer life and consistent performance.**
- **Unique bristle shape resists excessive edge wear to help extend disc performance.**
- **Flexible bristles conform to the part and clean without removing base material. Helps reduce damage and rework.**
- **Uniform concentration of Regalite mineral provides a higher cut rate than wire brushes for a faster, more uniform finish. Lowers operational costs.**
- **Cool running, resists heat build-up to help reduce potential for tempering or damaging the work surface.**
- **Integral threaded core spins quickly onto 5/8"-11 threaded shafts on electric or pneumatic right angle grinders.**

PART NUMBER	GRIT	COLOR
939037	120 Fine	White
939029	80 Medium	Yellow
939011	50 Coarse	Green
Max. Oper. RPM's 12,000		

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DRILLING TIPS

TIPS AND TECHNIQUES

Overcoming problem areas, as well as sound principles of drill usage.

DRILLING PROBLEMS

PROBLEM	DIAGNOSIS	SOLUTION
BROKEN DRILL	1. Flutes clogged up with chips, drill binds in hole, common in deep holes.	- Use Drills with wider flutes and/or faster helix angle. - Consider polished flutes. - Withdraw drill at regular intervals to clear chips. - If chips are not broken up, consider heavier feeds, or chip breaker design.
	2. Drill binding due to worn outer corners.	- Repoint or replace drill. - Check for excessive speed, or incorrect coolant, excessive run out as drill enters work.
	3. Work insecurely held.	- Use adequate holding or clamping device.
	4. Excessive feed.	- Reduce feed.
	5. Improper point.	- Check for correct lip clearance. - Use proper type of drill and point for application.
	6. Drill is dull.	- Replace before dulling occurs. Check feeds, speeds, and No. 5 for premature dulling.
BROKEN TANG	1. Shank or socket damaged.	- Repair or replace.
	2. Drill not properly seated in socket.	- Check for positive secure fit.
CHIPS NOT BREAKING UP	1. Insufficient feed.	- Increase feed.
	2. Improper style of drill and/or point.	- Consider use of chip breaker design drill and/or chip breaker point grind.
DAMAGED POINT	1. Using hard object to tap drill into point.	- Use soft lead, brass, plastic, etc. hammer.
	2. Dropping, mishandling drill.	- Handle with care.
OVERSIZE HOLE	1. Drill point off center.	- Repoint or replace with properly pointed drill.
	2. Machine spindle not rigid or not running true.	- Repair, if possible; consider use of bushing.
	3. Work piece loose and/or vibrating.	- Tighten and hold securely.
ROUGH HOLE	1. Incorrect point grind and/or dull drill.	- Repoint or replace with proper pointed drill.
	2. Excessive feed.	- Reduce feed.
	3. Incorrect or insufficient coolant.	- Correct and adjust.
POOR TOOL LIFE	1. Coolant not reaching point or incorrect or insufficient coolant.	- Correct and adjust.
	2. Speed too high and/or feed too low.	- Review and adjust.
	3. Wrong type of point and/or drill for application.	- Review requirements and conditions.
WEB SPLITS	1. Insufficient lip clearance.	- Repoint or replace with properly pointed drill.
	2. Point thinned too much.	- Repoint or replace with properly pointed drill.
	3. Excessive feed.	- Reduce feed.
CHIPPED LIPS	1. Excessive lip clearance and/or heel relief.	- Repoint or replace with pointed drill.
BROKEN OUTER CORNERS	1. Insufficient or incorrect coolant.	- Correct and adjust.
	2. Excessive speed.	- Reduce speed.
	3. Scale, hard spots encountered in material.	- No final remedy if this condition is prevalent; lower feeds and speeds may help.

FEEDS & SPEEDS

Different drilling conditions make it impossible to develop any rigid rules for feeds and speeds. The following tables contain guidelines which can be utilized when drilling standard materials. Also, the following "rules of thumb" can be used to determine proper feeds and speeds for drilling ferrous materials (note: varying conditions can easily require adjustments):

Feed equals .001" per revolution for every 1/16" of drill diameter, plus or minus .001" on the total.

Speed equals 80 surface feet per minute in 100 Brinell hardness material, and the speed should be reduced 10 surface feet per minute for each additional 50 points Brinell hardness.

Feed and speed rates should be reduced up to 45 to 50% when drilling holes deeper than 4 drill diameters.

RECOMMENDED FEEDS FOR VARIOUS DIAMETER DRILLS

DIAMETER OF DRILL (INCHES)	FEED (INCHES PER REVOLUTION)
Under 1/8	.001 to .003
1/8 to 1/4	.002 to .006
1/4 to 1/2	.004 to .010
1/2 to 1	.007 to .015
1 and over	.015 to .025

NOTE: It is best to start with a moderate speed and feed, increasing either one, or both, after observing the action and condition of the drill.

RECOMMENDED SPEEDS FOR STANDARD MATERIAL WITH H.S.S. DRILLS

MATERIAL	RECOMMENDED SPEED (SFM)
Aluminum and its Alloys	200-300
Brass and Bronze (ordinary)	150-300
Bronze (High Tensile)	70-150
Die Castings (Zinc Base)	300-400
Iron — Cast (soft)	75-125
Cast (medium hard)	50-100
Hard Chilled	10-20
Malleable	80-90
Magnesium and its Alloys	250-400
Monel Metal or High-Nickel Steel	30-50
Plastics or Similar Materials	100-300
Steel —	
Mild .2 carbon to .3 carbon	80-110
Steel .4 carbon to .5 carbon	70-80
Tool 1.2 carbon	50-60
Forgings	40-50
Alloy — 300 to 400 Brinell	20-30
High Tensile (Heat Treated)	
35 to 40 Rockwell "C"	30-40
40 to 45 Rockwell "C"	25-35
45 to 50 Rockwell "C"	15-25
50 to 55 Rockwell "C"	7-15
Stainless Steel	
Free Machining Grades	30-80
Work Hardening Grades	15-50
Titanium Alloy Sheet	50-60
Titanium Alloys	
Ti-75A (Commercially Pure)	50-60
RS-120	40-60
Ti-150A	40-50
Ti-140A	30-40
RC-130B	30-40
MST 6A1-4 Va.	20-35
MST 3A1-5 Cr.	10-20

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TITANIUM NITRIDE DRILLS

INTRODUCING THE REVOLUTION IN DRILLING HOLES

TITANIUM NITRIDE DRILLS

500% longer life.
50% faster.
You can drill more holes - faster!
Heavy duty construction.
Designed for industry, they stand up to the toughest conditions. Made from heavy duty, high speed steel, they are ideal for hard metals such as tool steel, work hardened stainless and other difficult to drill materials.
Ultimate quality and performance.
A super hard and smooth titanium coating.
Greater savings.
Extended life, faster cutting rates and improved performance add up to a substantial dollar savings. Plus, a Titanium Nitride drill can be resharpened.

TITANIUM NITRIDE COATED DRILLS ARE 500% LONGER LASTING THAN ORDINARY DRILLS!!

- Titanium drill bits last up to 6 times longer than standard high speed steel bits.

- Provides 75% faster penetration.

- Reduces downward pressure required to drill hole.

- Freer cutting - requires 25% less power to finish hole.

- Provides holes closer to size with improved hole finish.

FRACTIONAL SIZES

PART NUMBER	DIAMETER INCHES	DECIMAL EQUIVALENT INCHES	OVERALL LENGTH INCHES
814303	1/16	.0625	1-7/8
814304	5/64	.0781	2
814305	3/32	.0938	2-1/4
814306	7/64	.1094	2-5/8
814307	1/8	.1250	2-3/4
814308	9/64	.1406	2-7/8
814309	5/32	.1562	3-1/8
814310	11/64	.1719	3-1/4
814311	3/16	.1875	3-1/2
814312	13/64	.2031	3-5/8
814313	7/32	.2188	3-3/4
814314	15/64	.2344	3-7/8
814315	1/4	.2500	4
814316	17/64	.2656	4-1/8
814317	9/32	.2812	4-1/4
814318	19/64	.2969	4-3/8
814319	5/16	.3125	4-1/2
814320	21/64	.3281	4-5/8
814321	11/32	.3438	4-3/4
814322	23/64	.3594	4-7/8
814323	3/8	.3750	5
814324	25/64	.3906	5-1/8
814325	13/32	.4062	5-1/4
814326	27/64	.4219	5-3/8
814327	7/16	.4375	5-1/2
814328	29/64	.4531	5-5/8
814329	15/32	.4688	5-3/4
814330	31/64	.4844	5-7/8
814331	1/2	.5000	6

TITANIUM NITRIDE DRILL SETS

- **Titanium nitride coating provides a super hard surface with high lubricity.**
- **High speed steel.**
- **Ideal for hard metals, work hardened stainless, and other difficult to drill materials.**
- **135° split point.**
- **Ultimate high performance drills.**

Part No. 814300
7 piece starter set
Contains 7 drills
Sizes: 1/16", 1/8", 3/16", 1/4", 5/16", 3/8" and 1/2"
Packed in 12096 index

Part No. 814302
15 piece set
Contains 15 drills
Sizes: 1/16" to 1/2" by 32nds
Packed in 12096 index

Part No. 814301
13 piece set
Contains 13 drills
Sizes: 1/16" to 1/4" by 64ths
Packed in 12095 index

Part No. 814001
29 piece set
Contains 29 drills
Sizes: 1/16" to 1/2" by 64ths
Packed in 12097 index

Part No. 814002
100 piece set
Contains 100 drills
29 sizes
Sizes: 1/16" to 1/2" by 64ths
Packed in drill dispenser 12072

3/8" REDUCED SHANK

PART NUMBER	DIAMETER INCHES	OVERALL LENGTH INCHES	FLUTE LENGTH INCHES
814450	25/64	5-1/8	3-3/4
814451	13/32	5-1/4	3-7/8
814452	27/64	5-3/8	3-15/16
814453	7/16	5-1/2	4-1/16
814454	29/64	5-5/8	4-3/16
814455	15/32	5-3/4	4-5/16
814456	31/64	5-7/8	4-3/8
814457	1/2	6	4-1/2

- **135° split point.**
- **No center punch needed.**
- **Fits all 3/8 drills.**

1/2" REDUCED SHANK

PART NUMBER	DIAMETER INCHES	OVERALL LENGTH INCHES	FLUTE LENGTH INCHES
814458	9/16	6	3-7/8
814459	5/8	6	3-7/8
814460	11/16	6	3-7/8
814461	3/4	6	3-7/8
814462	7/8	6	3-7/8
814463	1	6	3-7/8

- **118° point.**
- **Requires minimum feed pressure.**
- **Fits all drills and drill presses with 1/2" chucks.**
- **Center easily.**
- **Ideal for machine shops, garages, farm and highway maintenance shops.**

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TITANIUM NITRIDE and DYNALLOY TWIST DRILLS

UNIBIT STEP DRILLS

- **Multiple hole sizes saves money, one bit can replace up to 13 different twist drills.**
- **Self starting tip means no skidding of the bit, no need for center punching.**
- **Enlarges holes quickly, saving time needed to change twist drill bits.**
- **Automatic deburring action means smooth, round holes and perfect hole sizing, time after time.**
- **Easy to sharpen, using ordinary grinding stone.**

– Two Styles Available –

Multi-Hole Style: Incorporates specially designed cutting steps, of progressively larger diameters, making it possible to drill up to as many as thirteen different hole sizes with a single bit.
Single Hole Style: Allows you to drill 7/8" diameter holes in tight confined areas, with little effort. Works in spots regular length drill bits won't fit.

Drill perfectly round holes of varying diameters in metal and plastics.

TITANIUM NITRIDE COATING

Extends drill life by 500%, and increases cutting rates by 50%. Titanium provides a superhead surface with high lubricity.

Greatly simplifies auto accessory installations.

Ideal for rust proofing applications.

Sure starts even on curved surfaces.

Cuts quickly through dense metal.

PART NUMBER	ILLUSTRATION	NO. OF HOLE SIZES	DIAMETER	STEP DEPTH	SHANK LENGTH	POINT	APPLICATION
814470		13	1/8 thru 1/2 in 1/32 increments	1/8	1/4	Self-starting.	All common drilling needs.
814471		8	9/16 thru 1 in 1/16 increments	1/8	3/8	For hole enlarging. Requires 1/2" or larger pilot hole.	All common drilling needs. With No. 814470, will drill 99% of most common diameter holes.
814472		9	1/4 thru 3/4 in 1/16 increments	1/8	3/8	Self-starting.	Ideal for cutting medium size holes.
814473		1	7/8		3/8	Self-starting.	Perfect size for 1/2" conduit. Ideal for draw-bolt hole and pilot light hole.

DYNALLOY GOLD TWIST DRILLS

- **135° self-centering split point.**
  - No center punching required.
  - Provides faster starts.
  - Eliminates work hardening.
  - Eliminates wandering when cutting rounded material.
- **Precision flutes.**
  - Permits rapid chip removal.
  - Reduces chip build-up and chip welding.
  - Provides cooler operation.
- **Heavy duty construction.**
  - Prevents excessive breakage.
  - Provides longer life.
  - Heavy duty web for precision drilling of thick material.
- **Surface treatment.**
  - Adds anti-friction and anti-weld properties to Dynalloy steel.

STRAIGHT SHANK FRACTIONAL SIZES

- **135° self-centering split point.**
- **High speed steel drills.**

Part No. 813010
13 piece set
Sizes: 1/16" to 1/4" by 64ths
Packed in 12095 index

Part No. 813012
29 piece set
Sizes: 1/16" to 1/2" by 64ths
Packed in 12097 index

Part No. 813011
15 piece set
Sizes: 1/16" to 1/2" by 32nds
Packed in 12096 index

Part No. 813017
100 piece set
29 sizes
Sizes: 1/16" to 1/2" by 64ths
Packed in drill dispenser 12072

Part No. 813024
50 pieces • 16 sizes (see chart) • 12050 steel tray

PART NUMBER	DRILL DIAMETER INCHES	DECIMAL EQUIVALENT INCHES	OVERALL LENGTH INCHES	QTY
813501*	1/16	.0625	1-7/8	3
813502	5/64	.0781	2	3
813503*	3/32	.0937	2-1/4	3
813504*	7/64	.1094	2-5/8	3
813505*	1/8	.1250	2-3/4	3
813506*	9/64	.1406	2-7/8	3
813507*	5/32	.1562	3-1/8	3
813508	11/64	.1719	3-1/4	3
813509*	3/16	.1875	3-1/2	3
813510*	13/64	.2031	3-5/8	3
813511*	7/32	.2187	3-3/4	3
813512*	15/64	.2344	3-7/8	3
813513*	1/4	.2500	4	3
813514*	17/64	.2656	4-1/8	3
813515*	9/32	.2812	4-1/4	3
813516*	19/64	.2969	4-3/8	3
813517*	5/16	.3125	4-1/2	3
813518	21/64	.3281	4-5/8	3
813519	11/32	.3437	4-3/4	3
813520	23/64	.3594	4-7/8	3
813521*	3/8	.3750	5	3
813522	25/64	.3906	5-1/8	3
813523	13/32	.4062	5-1/4	3
813524	27/64	.4219	5-3/8	3
813525	7/16	.4375	5-1/2	3
813526	29/64	.4531	5-5/8	3
813527	15/32	.4687	5-3/4	3
813528	31/64	.4844	5-7/8	3
813529	1/2	.5000	6	3

***These numbers are contained in assortment 813024.**

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DYNALLOY TWIST DRILLS

MASTER COMBINATION DRILL INDEX

Part No. 813016
98 piece set
Sizes: 1/16" to 1/2" by 64ths,
No. sizes: 1 to 43,
Letter sizes: A to Z
Packed in 12082 master index

LETTER SIZES

PART NUMBER	LETTER SIZE	DECIMAL EQUIVALENT INCHES
813574	A	.234
813575	B	.238
813576	C	.242
813577	D	.246
813578	E	.250
813579	F	.257
813580	G	.261
813581	H	.266
813582	I	.272
813583	J	.277
813584	K	.281
813585	L	.290
813586	M	.295

PART NUMBER	LETTER SIZE	DECIMAL EQUIVALENT INCHES
813587	N	.302
813588	O	.316
813589	P	.323
813590	Q	.332
813591	R	.339
813592	S	.348
813593	T	.358
813594	U	.368
813595	V	.377
813596	W	.386
813597	X	.397
813598	Y	.404
813599	Z	.413

Part No. 813019
80 piece set
26 sizes
Letter sizes: A to Z
Packed in drill dispenser 12085

Part No. 813013
26 piece set
Letter sizes: A to Z
Packed in 12098 index

WIRE GAUGE (NUMBER) SIZES

PART NUMBER	WIRE GAUGE SIZE	DECIMAL EQUIVALENT INCHES
813531	1	.2280
813532	2	.2210
813533	3	.2130
813534	4	.2090
813535	5	.2055
813536	6	.2040
813537	7	.2010
813538	8	.1990
813539	9	.1960
813540	10	.1935
813541	11	.1910
813542	12	.1890
813543	13	.1850
813544	14	.1820
813545	15	.1800
813546	16	.1770
813547	17	.1730
813548	18	.1695
813549	19	.1660
813550	20	.1610
813551	21	.1590
813552	22	.1570
813553	23	.1540

PART NUMBER	WIRE GAUGE SIZE	DECIMAL EQUIVALENT INCHES
813554	24	.1520
813555	25	.1495
813556	26	.1470
813557	27	.1440
813558	28	.1405
813559	29	.1360
813560	30	.1285
813561	31	.1200
813562	32	.1160
813563	33	.1130
813564	34	.1110
813565	35	.1100
813566	36	.1065
813567	37	.1040
813568	38	.1015
813569	39	.0995
813570	40	.0980
813571	41	.0960
813572	42	.0935
813573	43	.0890
813760	44	.0860
813761	45	.0820
813762	46	.0810

WIRE PART NUMBER	DECIMAL GAUGE SIZE	EQUIVALENT INCHES
813763	47	.0785
813764	48	.0760
813765	49	.0730
813766	50	.0700
813767	51	.0670
813768	52	.0635
813769	53	.0595
813770	54	.0550
813771	55	.0520
813772	56	.0465
813773	57	.0430
813774	58	.0420
813775	59	.0410
813776	60	.0400
813777	61	.0390
813778	62	.0380
813779	63	.0370
813780	64	.0360
813781	65	.0350
813782	66	.0330
813783	67	.0320
813784	68	.0310

Part No. 813018
127 piece set
43 sizes
Sizes: 1 to 43
Packed in drill dispenser 12084

Part No. 813014
43 piece set
Sizes: 1 to 43
Packed in 12099 index

METRIC DYNALLOY TWIST DRILLS

PART NUMBER	DRILL DIA. MM	DRILL DIA. DEC. EQUIV.	OVERALL LGTH. MM	OVERALL LGTH. INCHES	QTY
813927	1.00	.0394	41	1-5/8	3
813928	1.50	.0591	48	1-7/8	3
813929	2.00	.0787	54	2-1/8	3
813930	2.50	.0984	60	2-3/8	3
813931	3.00	.1181	70	2-3/4	3
813932	3.50	.1378	73	2-7/8	3
813933	4.00	.1575	83	3-1/4	3
813934	4.50	.1772	86	3-3/8	3
813935	5.00	.1968	92	3-5/8	3
813936	5.50	.2165	95	3-3/4	3

PART NUMBER	DRILL DIA. MM	DRILL DIA. DEC. EQUIV.	OVERALL LGTH. MM	OVERALL LGTH. INCHES	QTY
813937	6.00	.2362	102	4	3
813938	6.50	.2559	105	4-1/8	1
813939	7.00	.2756	105	4-1/8	1
813940	7.50	.2953	111	4-3/8	1
813941	8.00	.3150	114	4-1/2	1
813942	8.50	.3346	121	4-3/4	1
813943	9.00	.3543	124	4-7/8	1
813944	9.50	.3740	127	5	1
813945	10.00	.3937	130	5-1/8	1

813025 shown

Part No. 813025
11 sizes
1mm to 6mm
.50mm increments

Part No. 813026
19 sizes
1mm to 10mm
.50mm increments

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DRILLS and DYNALLOY DRILLS

COMBINED DRILL and COUNTERSINK BITS

- Double-ended for double the wear, double the life.
- Drill ends of equal diameter 118° point.

PART NUMBER	DRILL SIZE INCHES	SHANK SIZE INCHES	OVERALL LENGTH INCHES	QTY
813989	3/64	1/8	1-1/4	3
813990	5/64	3/16	1-7/8	3
813991	7/64	1/4	2	3
813630	1/8	5/16	2-1/8	3
813992	3/16	7/16	2-3/4	3

DOUBLE-END STRAIGHT SHANK

- 135° Self-centering split point.
- Extra sharp point always handy.
- Fits drill chuck without damage.
- Stubby length reduces breakage.
- Ideal for drilling sheet metal 1/4" thick or less.

PART NUMBER	DRILL SIZE INCHES	DEC. EQUIV.	OVERALL LENGTH INCHES	QTY
813625	1/8	.1250	2	12
813626	3/16	.1875	2-3/16	3
813624	1/4	.2500	2-1/2	6
813627	30	.1285	2	3
813628	20	.1610	2-1/8	3
813629	11	.1910	2-1/4	3

BODY SHOP TIP
#30 Bit creates the perfect size hole for 1/8" blind rivets.

REDUCED SHANK DRILLS

1/4" REDUCED SHANK
135° Self-Centering Split Point

PART NUMBER	DIAMETER INCHES	DEC. EQUIV.	OVERALL LENGTH
813600	9/32	.2812	2-11/16
813601	5/16	.3125	2-13/16
813602	11/32	.3438	3
813603	3/8	.3750	3-1/8
813604	13/32	.4062	3-5/16
813605	7/16	.4375	3-7/16
813606	15/32	.4688	3-5/8
813607	1/2	.5000	3-3/4

3/8" REDUCED SHANK

PART NUMBER	DIAMETER INCHES	DEC. EQUIV.	OVERALL LENGTH
813651	7/16	.4375	5-1/2
813652	15/32	.4687	5-3/4
813653	1/2	.5000	6
813654	17/32	.5312	6
813655	9/16	.5625	6
813656	19/32	.5937	6
813657	5/8	.6250	6

DON'T FORGET "CUTTING FOAM"
Drill bits will last longer. Part No. 811244

1/2" REDUCED SHANK
3" Twist Length

PART NUMBER	DIAMETER INCHES	DEC. EQUIV.	OVERALL LENGTH
813608	17/32	.5312	6
813609	9/16	.5625	6
813610	19/32	.5938	6
813611	5/8	.6250	6
813612	21/32	.6562	6
813613	11/16	.6875	6
813614	23/32	.7188	6
813615	3/4	.7500	6
813616	25/32	.7813	6
813617	13/16	.8125	6
813618	27/32	.8438	6
813619	7/8	.8750	6
813620	29/32	.9063	6
813621	15/16	.9375	6
813622	31/32	.9688	6
813623	1	1.000	6

EXTRA LONG AIRCRAFT EXTENSION DRILLS

- 12" Overall length.
- 135° Self-centering split point
- No center punch required; eliminates wandering.

PART NUMBER	DRILL DIA. INCHES	FLUTE LENGTH INCHES
813993	1/8	1-5/8
813994	3/16	2-5/16
813995	1/4	2-3/4
813996	9/32	2-15/16
813988	5/16	3-3/16
813997	3/8	3-5/8
813998	7/16	4-1/16
813999	1/2	4-1/2

DYNALLOY MASONRY DRILL

Tungsten Carbide Tip is Specially Designed For the Drilling of: Tile, Brick, Granite, Concrete, and Similar Hard Wearing Material.

PART NUMBER	DRILL DIA. INCHES	SHANK DIA. INCHES	LENGTH
813658	3/16	3/16	3-1/2
813659	1/4	1/4	4-1/4
813660	5/16	1/4	6
813661	3/8	1/4	6
813662	7/16	7/16	6-1/4
813663	1/2	3/8	6-3/4
813664	5/8	3/8	6
813665	3/4	1/2	6

HEX SHANK DRILL BITS

- Fits all cordless drills and screwdrivers.
- 1/4" hex shank for fast bit changes.
- Durable high speed steel quickly penetrates wood, metal and plastic.
- Hardened and tempered for long life.

PART NUMBER	DIAMETER INCHES	OVERALL LENGTH	FLUTE LENGTH IN.
813715	3/32	2-3/4	1-3/16
813716	7/64	2-7/8	1-1/4
813717	1/8	3	1-5/16
813718	9/64	3-1/16	1-7/16
813719	5/32	3-3/16	1-1/2

Assortment Available

Part No. 813023
5 piece set
12028 plastic tray

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DYNALLOY POSI-GRIP DRILLS

DYNALLOY POSI-GRIP DRILLS

Used for demanding maintenance and portable drilling functions in various grades of stainless steel and other hard metal drilling applications.

3 Flats on 3/16'' and larger shank give positive chuck-grip, and *virtually eliminates drill/chuck slippage.*

- **Special hi-molybdenum tool steel, gold surface treated for maximum lubricity.**
- **Mechanics/maintenance length reduces potential for breaking.**
- **Premium grade M-7 steel for longer life and heat resistance.**

– ASSORTMENTS AVAILABLE –

Part No. 814006
13 piece set
Sizes: 1/16" to 1/4"
by 64ths.
packed in 12095 index

Part No. 814007
15 piece set
Sizes: 1/16" to 1/2"
by 32nds.
packed in
12096 index

Part No. 814008
29 piece set
Sizes: 1/16" to 1/2"
by 64ths.
packed in
12097 index

DIAMETER	OVERALL LENGTH	FLUTE LENGTH	PKG QTY 1	PKG QTY 3	PKG QTY 6	PKG QTY 12
1/16	1-7/8	7/8	**814700**	---	**814700-6**	**814700-12**
5/64	2	1	**814701**	---	**814701-6**	**814701-12**
3/32	2-1/4	1-1/4	**814702**	---	**814702-6**	**814702-12**
7/64	2-3/8	1-5/16	**814703**	---	**814703-6**	**814703-12**
1/8	2-1/2	1-7/16	**814704**	---	**814704-6**	**814704-12**
9/64	2-5/8	1-9/16	**814705**	---	**814705-6**	**814705-12**
5/32	2-3/4	1-11/16	**814706**	---	**814706-6**	**814706-12**
11/64	2-7/8	1-13/16	**814707**		**814707-6**	**814707-12**
3/16	3	1-7/8	**814708**	---	**814708-6**	**814708-12**
13/64	3-1/8	1-15/16	**814709**	---	**814709-6**	**814709-12**
7/32	3-1/4	2	**814710**	---	**814710-6**	**814710-12**
15/64	3-3/8	2-1/16	**814711**	---	**814711-6**	**814711-12**
1/4	3-1/2	2	**814712**	---	**814712-6**	**814712-12**
17/64	3-5/8	2-1/8	**814713**	---	**814713-6**	**814713-12**
9/32	3-3/4	2-1/4	**814714**	---	**814714-6**	**814714-12**
19/64	3-7/8	2-3/8	**814715**	---	**814715-6**	**814715-12**
5/16	4	2-1/2	**814716**	**814716-3**	**814716-6**	---
21/64	4-1/16	2-9/16	**814717**	**814717-3**	**814717-6**	---
11/32	4-1/8	2-5/8	**814718**	**814718-3**	**814718-6**	---
23/64	4-3/16	2-11/16	**814719**	**814719-3**	**814719-6**	---
3/8	4-1/4	2-11/16	**814720**	**814720-3**	**814720-6**	---
25/64*	4-5/16	2-3/4	**814721**	**814721-3**	**814721-6**	---
13/32*	4-3/8	2-13/16	**814722**	**814722-3**	**814722-6**	---
27/64	4-7/16	2-7/8	**814723**	**814723-3**	**814723-6**	---
7/16	4-1/2	2-15/16	**814724**	**814724-3**	**814724-6**	---
29/64	4-5/8	3	**814725**	**814725-3**	**814725-6**	---
15/32	4-3/4	3-1/8	**814726**	**814726-3**	**814726-6**	---
31/64	4-7/8	3-1/4	**814727**	**814727-3**	**814727-6**	---
1/2	5	3-3/8	**814728**	**814728-3**	**814728-6**	---

***Will fit 3/8 chuck.**

Part No. 814009
29 piece set
Sizes: 1/16" to 1/2" by 64ths.
packed in 12072 cabinet

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ULTRA MOLY MUSCLE DRILL BITS, DYNALLOY TWIST and SPECIALTY DRILLS

ULTRA-MOLY MUSCLE DRILL BITS - "QUICK RELEASE STYLE"

no center punch needed!

For Safety Always Wear Goggles and Face Shield when Grinding & Sanding

Recommended use in work hardening grades of stainless steel & other hard metal drill applications.

- **Body & clearance are treated for maximum lubricity.**
- **Especially designed for hand held drills.**
- **Quick release eases changing of cutting tools.**

PROUDLY MADE IN THE USA

1/4" MECHANIC LENGTH HEX SHANK

POCKET/BELT POUCH
Part No. 826201
Contains sizes: 1/16" to 1/4"
7 piece • 7 items • soft pouch

826211	826213	826215	826217
826212	826214	826216	

Numbers in assortment

Part No. 826202
Quick Release adapter included
Contains sizes: 1/16" to 1/2"
12 piece • 12 items • hard plastic case

826210	826213	826216	826221
826211	826214	826217	826223
826212	826215	826219	826225

Numbers in assortment

DIAMETER	OVERALL LENGTH	PKG QTY 1	PKG QTY 6
1/16	2-5/8	**826211**	**826211-6**
3/32	3-1/4	**826212**	**826212-6**
1/8	3-1/2	**826213**	**826213-6**
5/32	3-1/2	**826214**	**826214-6**
3/16	3-3/4	**826215**	**826215-6**
7/32	4	**826216**	**826216-6**
1/4	4-1/4	**826217**	**826217-6**
9/32	3-13/16	**826218**	**826218-6**
5/16	4	**826219**	**826219-6**
11/32	4-7/32	**826220**	**826220-6**
3/8	4-1/4	**826221**	**826221-6**
13/32	4-1/2	**826222**	**826222-6**
7/16	4-1/2	**826223**	**826223-6**
15/32	4-7/8	**826224**	**826224-6**
1/2	5	**826225**	**826225-6**

Part No. 826210
Quick Release Adapter

DYNALLOY POSI-GRIP DRILLS *(3/8" REDUCED SHANK)*

- **3 flats on shank prevent drill/chuck slippage.**
- **Maintenance/mechanics length-decreases breakage potential.**

Part No. 814011
6 pieces • 6 items
12048 plastic tray

814729	814731	814733
814730	814732	814734

Numbers in assortment

DIAMETER	PART NUMBER	OVERALL LENGTH	FLUTE LENGTH
27/64	**814729**	4-7/16	2-7/8
7/16	**814730**	4-1/2	2-15/16
29/64	**814731**	4-5/8	3
15/32	**814732**	4-3/4	3-1/8
31/64	**814733**	4-7/8	3-1/4
1/2	**814734**	5	3-3/8

DYNALLOY POSI-GRIP DRILLS *(1/2" REDUCED SHANK - S & D DRILLS)*

- **3 flats on shank, prevent drill/chuck slippage.**
- **135° split point up to 3/4 inch, larger sizes have 118° split point.**
- **Overall length 6 inches.**
- **Also called silver and deming drills.**

Part No. 814012
8 pieces • 8 items
12148 steel index

814758	814766	814774	814782
814762	814770	814778	814786

Numbers in assortment

DIAMETER	PART NUMBER	DIAMETER	PART NUMBER	DIAMETER	PART NUMBER	DIAMETER	PART NUMBER
33/64	**814755**	11/16	**814766**	55/64	**814777**	1-1/16	**814788**
17/32	**814756**	45/64	**814767**	7/8	**814778**	1-3/32	**814789**
35/64	**814757**	23/32	**814768**	57/64	**814779**	1-1/8	**814790**
9/16	**814758**	47/64	**814769**	29/32	**814780**	1-5/32	**814791**
37/64	**814759**	3/4	**814770**	59/64	**814781**	1-3/16	**814792**
19/32	**814760**	49/64	**814771**	15/16	**814782**	1-7/32	**814793**
39/64	**814761**	25/32	**814772**	61/64	**814783**	1-1/4	**814794**
5/8	**814762**	51/64	**814773**	31/32	**814784**	1-5/16	**814795**
41/64	**814763**	13/16	**814774**	63/64	**814785**	1-3/8	**814796**
21/32	**814764**	53/64	**814775**	1	**814786**	1-7/16	**814797**
43/64	**814765**	27/32	**814776**	1-1/32	**814787**	1-1/2	**814798**

HOLE HOG™ POSI-GRIP CORE DRILLS

Enlarges existing holes by as much as 160%.

- **Made from hi-molybdenum tool steel.**
- **Gold surface treated body for maximum lubricity.**
- **3 flats on 1/2" diameter reduced shank - prevents drill/chuck slippage.**
- **4 flute design.**
- **Special design point prevents catching and hogging-in when used on thinner materials such as truck frames.**
- **10 times longer life in truck frame drilling than standard silver and deming drills.**

Part No. 814013
6 pieces • 6 items
12080 plastic tray

814735	814737	814739
814736	814738	814740

Numbers in assortment

DIAMETER	PART NUMBER	MINIMUM STARTING HOLE SIZE	OVERALL LENGTH	FLUTE LENGTH
3/8*	**814735**	1/4	4-5/16	1-7/8
1/2	**814736**	5/16	4-5/16	1-7/8
9/16	**814737**	3/8	4-5/16	1-7/8
5/8	**814738**	25/64	4-5/16	1-7/8
11/16	**814739**	7/16	4-5/16	1-7/8
3/4	**814740**	15/32	4-5/16	1-7/8

*** has a 3/8 diameter shank**

ROTARY SAW BITS

Used for drywall cutouts.

DIAMETER	PART NUMBER	OVERALL LENGTH
#32	**814752**	2-1/4
1/4 x 3/16	**814753**	2-1/2
1/4	**814754**	4

- **High speed steel, parabolic triple flute.**
- **1/4" sizes, fits 1/4" chuck on standard routers.**
- **Saves time and money. Use 1 instead of 10 ordinary drills.**
- **Short size 1/4" drill has 3/16" flute for close cuts around outlet boxes.**
- **Long size 1/4" ideal for doors and windows.**
- **#32 size has thicker core to reduce breakage.**
- **Replaces Zip® bits.**

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SPECIALTY DRILLS, DRILL KITS and DYNALLOY E-Z REAMER

WELDOUT™ SPOTWELD DRILLS

Designed to effectively cut auto body panel spot welds.

DRILL DIAMETER MM	PART NUMBER	APPROX SPOTWELD SIZE, INCHES	OVERALL LENGTH INCHES	FLAT LENGTH INCHES
6.5	**814741**	1/4	1-9/16	.44
6.5	**814742**	1/4	1-29/64	.44
6.5	**814743**	1/4	1-3/4	None
6.5*	**814744**	1/4	3-5/8	None
8.0	**814745**	5/16	1-9/16	.44
8.0	**814746**	5/16	1-29/64	.44

DRILL DIAMETER MM	PART NUMBER	APPROX SPOTWELD SIZE, INCHES	OVERALL LENGTH INCHES	FLAT LENGTH INCHES
8.0	**814747**	5/16	1-11/16	.75
8.0	**814748**	5/16	1-3/4	None
8.0*	**814749**	5/16	3-5/8	None
10.0	**814750**	3/8	1-3/4	None
10.0*	**814751**	3/8	3-5/8	None

***twin end**

- **Cobalt high speed steel, more abrasion resistant.**
- **Spur point designed to cut through the weld on one panel while leaving second panel free of holes.**
- **Long wearing cutting edges.**
- **Sizes without flats are for use in standard air powered drill motors.**

SPADE WOOD BORING DRILLS

SIZE	PART NUMBER
1/4	**814575**
5/16	**814576**
3/8	**814577**
7/16	**814578**
1/2	**814579**
9/16	**814580**

SIZE	PART NUMBER
5/8	**814581**
11/16	**814582**
3/4	**814583**
13/16	**814584**
7/8	**814585**
15/16	**814586**

SIZE	PART NUMBER
1	**814587**
1-1/8	**814588**
1-1/4	**814589**
1-3/8	**814590**
1-1/2	**814591**

Part No. 814010
9 pieces • 9 items
12048 plastic tray

814575 814577 814579 814581 814583
814576 814578 814580 814582

Numbers in assortment

- **1/4" shank diameter, 6" long.**
- **Built-in hole for pulling wires back.**
- **Faster, smoother cuts with precision ground spur and cutting edges.**

LEFT HAND* DYNALLOY TWIST DRILLS

- **Left hand rotation helps loosen screw and provide firm bite for extractor.**
- **Ideal for use with screw extractors.**
- **118° point.**
- **Use to aid in removal of broken studs and bolts.**
- **Loose broken studs will often unscrew while using left hand drill.**
- **High speed alloy steel.**
- **Straight shank — jobber length.**
- **Polished flutes for improved chip removal.**

PART NUMBER	DIAMETER	DEC. EQUIV.	OVERALL LENGTH	FLUTE LENGTH	QTY
813790	1/16	.0625	1-7/8	7/8	1
813791	3/32	.0937	2-1/4	1-1/4	1
813631	1/8	.1250	2-3/4	1-5/8	3
813632	5/32	.1562	3-1/8	2	3
813633	3/16	.1875	3-1/2	2-5/16	3
813634	7/32	.2188	3-3/4	2-1/2	3
813635	1/4	.2500	4	2-3/4	3
813792	9/32	.2812	4-1/4	2-15/16	1
813636	5/16	.3125	4-1/2	3-3/16	3
813793	11/32	.3437	4-3/4	3-7/16	1
813637	3/8	.3750	5	3-5/8	3
813794	13/32	.4062	5-1/4	3-7/8	1
813795	7/16	.4375	5-1/2	4-1/16	1
813796	15/32	.4687	5-3/4	4-5/16	1
813797	1/2	.5000	6	4-1/2	1

*** These drills must be used with a reversible drill turning in the proper direction.**

813015
7 piece set
Includes 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"
Packed in 12096 Index

813045
15 piece set
All sizes included
Packed in 12096 Index

DYNALLOY E-Z REAMER

Reams safely through the thickest steel stock! The only tool that can cut through truck frames safely & rapidly!

Outperforms Ordinary Reamers 10 to 1

APPLICATIONS

- **5th Wheel Mounting.**
- **Spring Hangers.**
- **Fuel Tank Mounting.**
- **Tool Box Mounting.**
- **Weighted bumper mounting on cranes.**
- **Installing teeth on front end of loader buckets.**
- **Enlarging misaligned holes.**
- **Accessory Mounting.**
- **Enlarging spring center bolt holes.**
- **Tow Hook Mounting.**

FEATURES / BENEFITS

- **Specially developed to produce new holes or enlarge existing holes.**
- **Drill truck frames in minutes instead of hours. Specially engineered incline plane makes the difference.**
- **Use heavy duty 1/2" or larger drill with at least 4.5 amps, best results obtained if motor is 6 to 15 amps. High amps provide constant torque with even speed.**
- **Tougher alloy steel increases tool life.**
- **SAFER – Mechanics are convinced problems – NON-EXISTENT with the Dynalloy E-Z Reamer. Tool Guard Collar protects tool and drill.**
- **EASIER – Any mechanic can operate the Dynalloy E-Z Reamer. Because less effort or pressure is required.**

Part No. 814014
8 pieces • 8 items
12116 steel tray

113140 114144
113141 113151
113142 113152
113143 113153

Numbers in assortment

PART NUMBER	DIAMETER	OVERALL LENGTH	TAPER LEAD	SHANK LENGTH	SHANK DIAMETER	FLUTE LENGTH	FLUTES	HELIX ANGLE	COLLAR DIAMETER	COLLAR THICKNESS
113140	3/8	4-3/4	8°	1-1/2	1/2	3-1/4	4	20°	1/2	5/16
113141	7/16	4-3/4	8°	1-1/2	1/2	3-1/4	4	20°	9/16	5/16
113151	1/2	5-3/4	8°	1-1/2	1/2	3-3/8	5	20°	5/8	5/16
113142	9/16	5-3/4	8°	1-1/2	1/2	3-3/8	5	20°	11/16	5/16
113152	5/8	6-3/16	8°	1-1/2	1/2	3-7/8	5	20°	3/4	5/16
113153	3/4	6-3/4	8°	1-1/2	1/2	4-1/4	5	20°	7/8	5/16
113143	7/8	7-1/8	8°	1-1/2	1/2	4-7/8	5	20°	1	5/16
113144	1	7-3/16	8°	1-1/2	1/2	4-3/4	5	20°	1-1/8	5/16

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COBALT HEAVY DUTY and UNIBIT STEP DRILLS

COBALT HEAVY DUTY DRILLS

Part No. 814020
13 piece set
Sizes: 1/16" to 1/4"
by 64ths.
packed in 12095 index

PROUDLY MADE IN THE USA

Part No. 814021
15 piece set
Sizes: 1/16" to 1/2"
by 32nds.
packed in 12096 index

Part No. 814022
29 piece set
Sizes: 1/16" to 1/2"
by 64ths.
packed in 12097 index

Part No. 814023
29 piece set
Sizes: 1/16" to 1/2"
by 64ths.
packed in
12072 cabinet

Used for drilling holes in hard, tough materials such as stainless steel, titanium, high temperature and high strength alloys.

135° Split Point for faster starting.

- **Heavy duty construction made to Type J air craft specifications.**
- **High red hardness of cobalt permits speeds 30% greater than high speed steel drills.**
- **Cobalt M-42 with gold finish.**

DIAMETER	OVERALL LENGTH	FLUTE LENGTH	PKG QTY 1	PKG QTY 3	PKG QTY 6	PKG QTY 12
1/16	1-7/8	7/8	**814200**		**814200-6**	**814200-12**
5/64	2	1	**814201**		**814201-6**	**814201-12**
3/32	2-1/4	1-1/4	**814202**		**814202-6**	**814202-12**
7/64	2-5/8	1-1/2	**814203**		**814203-6**	**814203-12**
1/8	2-3/4	1-5/8	**814204**		**814204-6**	**814204-12**
9/64	2-7/8	1-3/4	**814205**		**814205-6**	**814205-12**
5/32	3-1/8	2	**814206**		**814206-6**	**814206-12**
11/64	3-1/4	2-1/8	**814207**		**814207-6**	**814207-12**
3/16	3-1/2	2-5/16	**814208**		**814208-6**	**814208-12**
13/64	3-5/8	2-7/16	**814209**		**814209-6**	**814209-12**
7/32	3-3/4	2-1/2	**814210**		**814210-6**	**814210-12**
15/64	3-7/8	2-5/8	**814211**		**814211-6**	**814211-12**
1/4	4	2-3/4	**814212**		**814212-6**	**814212-12**
17/64	4-1/8	2-7/8	**814213**		**814213-6**	**814213-12**
9/32	4-1/4	2-15/16	**814214**		**814214-6**	**814214-12**
19/64	4-3/8	3-1/16	**814215**		**814215-6**	**814215-12**
5/16	4-1/2	3-3/16	**814216**	**814216-3**	**814216-6**	
21/64	4-5/8	3-5/16	**814217**	**814217-3**	**814217-6**	
11/32	4-3/4	3-7/16	**814218**	**814218-3**	**814218-6**	
23/64	4-7/8	3-1/2	**814219**	**814219-3**	**814219-6**	
3/8	5	3-5/8	**814220**	**814220-3**	**814220-6**	
25/64	5-1/8	3-3/4	**814221**	**814221-3**	**814221-6**	
13/32	5-1/4	3-7/8	**814222**	**814222-3**	**814222-6**	
27/64	5-3/8	3-15/16	**814223**	**814223-3**	**814223-6**	
7/16	5-1/2	4-1/16	**814224**	**814224-3**	**814224-6**	
29/64	5-5/8	4-3/16	**814225**	**814225-3**	**814225-6**	
15/32	5-3/4	4-5/16	**814226**	**814226-3**	**814226-6**	
31/64	5-7/8	4-3/8	**814227**	**814227-3**	**814227-6**	
1/2	6	4-1/2	**814228**	**814228-3**	**814228-6**	

UNIBIT STEP DRILLS

Drill perfectly round holes of varying diameters in metal and plastics. Great for rust proofing, accessory installation and all-purpose drilling.

– Two Styles Available –

Multi-Hole Style: Incorporates specially designed cutting steps, of progressively larger diameters, making it possible to drill up to as many as thirteen different hole sizes with a single bit.
Single Hole Style: Allows you to drill 3/8" or 1/2" diameter holes in tight confined areas, with little effort. Works in spots regular length drill bits won't fit.

- **Enlarges holes quickly and efficiently.**
- **Self-Starting tip.**
- **Produces smooth, rounded holes - automatic deburring action.**
- **Saves MONEY! One bit can replace up to 13 different twist drill bits.**
- **Saves TIME! Eliminates the down time needed to change drill bits.**
- **No "skidding" of bit. No need to center punch metal.**
- **Perfect hole sizing, time after time.**

PART NUMBER	ILLUSTRATION	SELF-STARTING BIT DESIGN	MAX. MAT. THICKNESS (INCHES)	HOLE DIA.	SHANK SIZE (INCHES)	NO. OF DIA. ON BIT	DRILLING APPLICATIONS
813640 MULTI-HOLE		Yes	1/8	1/8 to 1/2 1/32 Increments	1/4	13	All around drilling of steel, fiberglass, plastic and aluminum.
813642 MULTI-HOLE		Yes	3/8	3/16 to 1/2 1/16 Increments	1/4	6	All around drilling of steel, fiberglass, plastic and aluminum.
813643 MULTI-HOLE		Yes	1/8	1/4 to 3/4 1/16 Increments	3/8	9	All around drilling of steel, fiberglass, plastic and aluminum.
813644 SINGLE-HOLE		Yes	N/A	1/2	1/4	1	Rust proofing, drilling frames for pulling attachments & trailer hitch installations.
813645 SINGLE-HOLE		Yes	N/A	3/8	1/4	1	Rust proofing, drilling frames for pulling attachments & trailer hitch installations.
813646 METRIC MULTI-HOLE		Yes	3/16	4mm to 12mm	1/4	9	All around drilling of steel, fiberglass, plastic and aluminum.
813647 METRIC MULTI-HOLE		Yes	3/16	6mm to 18mm	3/8	7	All around drilling of steel, fiberglass, plastic and aluminum.

Greatly simplifies auto accessory installations.

Ideal for rust proofing applications.

Sure starts even on curved surfaces.

Cuts quickly through dense metal.

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TAP and DIES

DYNALLOY TAPS

- Heat treated and tempered for long life, clean accurate threads.
- Carbon tool steel, hard-chrome finish.
- Long-lasting - chrome finish resists rust and tarnish.
- Right hand threads, USS and SAE.
- Each tap marked permanently with drill size.
- 3 types - plug, taper, and bottoming.
- Assorted Imports.

ULTRA-CUT TAPS

- Made in the USA.
- Triple heat treated M7 steel.
- Outlasts carbon steel 10 to 1.
- Gold surface treated for maximum lubricity.
- Precision ground threads for the ultimate in accuracy and performance.
- Right hand threads, USS and SAE.
- Each tap marked permanently with drill size.
- 3 types - plug, taper, and bottoming.

TYPES OF TAPS

PLUG
3 to 5 threads chamfered. General use when tapping to bottom of hole is not critical. (This is the most widely used type of tap.)

TAPER
8 to 10 threads chamfered for easy thread starting in tough materials.

BOTTOMING
1-1/2 threads chamfered. Use after threads have been started for tapping to bottom of hole.

– Taps available separately or in sets. –

TAP & DRILL ASSORTMENT

- SAVES TIME: Proper size "Tap & Drill Combos" are now right at your fingertips.
- COMPLETE SET: 9 of the most used plug style taps with the correct size drill.
- HIGH STRENGTH Index protects taps and drills from costly damage when not in use.
- EASY ACCESS: Compact design fits in tool box drawer. It's just 4" x 7" x 1-1/4".
- FULL COVERAGE: Order National Coarse (USS) or National Fine (SAE) in either Ultra-Cut or Dynalloy.

18 Pieces Each Set

NATIONAL COARSE (USS)

9 taps • 9 drills • 12107 index

DYNALLOY ASST. Part No. 813027

PART NUMBER	TAP SIZE	PART NUMBER	DRILL SIZE
813809	6-32	813566	#36
813810	8-32	813559	#29
813811	10-24	813555	#25
813812	10-32	813551	#21
813814	1/4-20	813537	#7
813815	5/16-18	813579	"F"
813816	3/8-16	813517	5/16
813817	7/16-14	813594	"U"
813818	1/2-13	813524	27/64

9 taps • 9 drills • 12107 index

ULTRA-CUT ASST. Part No. 813032 (Includes Spiral Point Taps)

PART NUMBER	TAP SIZE	PART NUMBER	DRILL SIZE
814505	6-32	813566	#36
814507	8-32	813559	#29
814509	10-24	813555	#25
814510	10-32	813551	#21
814513	1/4-20	813537	#7
814515	5/16-18	813579	"F"
814517	3/8-16	813517	5/16
814519	7/16-14	813594	"U"
814521	1/2-13	813524	27/64

NATIONAL FINE (SAE)

9 taps • 9 drills • 12108 index

DYNALLOY ASST. Part No. 813028

PART NUMBER	TAP SIZE	PART NUMBER	DRILL SIZE
813894	6-40	813563	#33
813895	8-36	813559	#29
813811	10-24	813555	#25
813812	10-32	813551	#21
813844	1/4-28	813533	#3
813845	5/16-24	813582	"I"
813846	3/8-24	813590	"Q"
813847	7/16-20	813522	25/64
813848	1/2-20	813526	29/64

9 taps • 9 drills • 12108 index

ULTRA-CUT ASST. Part No. 813033 (Includes Spiral Point Taps)

PART NUMBER	TAP SIZE	PART NUMBER	DRILL SIZE
814506	6-40	813563	#33
814508	8-36	813559	#29
814509	10-24	813555	#25
814510	10-32	813551	#21
814514	1/4-28	813533	#3
814516	5/16-24	813582	"I"
814518	3/8-24	813590	"Q"
814520	7/16-20	813522	25/64
814522	1/2-20	813526	29/64

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DYNALLOY TAPS

TAPS - MACHINE SCREW and FRACTIONAL

*Sets consists of one (1) each: Plug, Taper, and Bottoming Tap
†Order drills separately.

SIZE	PLUG STYLE PART NO.	TAPER STYLE PART NO.	BOTTOMING STYLE PART NO.	SETS* PART NO.	DRILL SIZE REQUIRED†
4-40 USS	**813807**	---	**813800**	---	#44
4-48 SAE	**813808**	---	**813801**	---	#43
6-32 USS	**813809**	---	**813802**	---	#36
6-40 SAE	**813894**	--	---	---	#33
8-32 USS	**813810**	--	**813803**	---	#29
8-36 SAE	**813895**	---	---	---	#29
10-24 USS	**813811**	---	**813804**	---	#25
10-32 SAE	**813812**	---	**813805**	---	#21
12-24 USS	**813813**	---	**813806**	---	#16
1/4-20 USS	**813814**	**813824**	**813834**	**813874**	#7
1/4-28 SAE	**813844**	**813854**	**813864**	**813884**	#3
5/16-18 USS	**813815**	**813825**	**813835**	**813875**	F
5/16-24 SAE	**813845**	**813855**	**813865**	**813885**	I
3/8-16 USS	**813816**	**813826**	**813836**	**813876**	5/16
3/8-24 SAE	**813846**	**813856**	**813866**	**813886**	Q
7/16-14 USS	**813817**	**813827**	**813837**	**813877**	U
7/16-20 SAE	**813847**	**813857**	**813867**	**813887**	25/64
1/2-13 USS	**813818**	**813828**	**813838**	**813878**	27/64
1/2-20 SAE	**813848**	**813858**	**813868**	**813888**	29/64
9/16-12 USS	**813819**	**813829**	**813839**	**813879**	31/64
9/16-18 SAE	**813849**	**813859**	**813869**	**813889**	33/64
5/8-11 USS	**813820**	**813830**	**813840**	**813880**	17/32
5/8-18 SAE	**813850**	**813860**	**813870**	**813890**	37/64
3/4-10 USS	**813821**	**813831**	**813841**	**813881**	21/32
3/4-16 SAE	**813851**	**813861**	**813871**	**813891**	11/16
7/8-9 USS	**813822**	**813832**	**813842**	**813882**	49/64
7/8-14 SAE	**813852**	**813862**	**813872**	**813892**	13/16
1-8 USS	**813823**	**813833**	**813843**	**813883**	7/8
1-14 SAE	**813853**	**813863**	**813873**	**813893**	15/16

TAPS - METRIC/PLUG STYLE

- **Heat treated and tempered carbon tool steel.**
- **Hard-chrome finish.**
- **Each tap permanently marked with tap and drill size.**
- **Used to cut metric, automotive, and machinery threads.**

SIZE	PART NO.	DRILL SIZE REQUIRED†	SIZE	PART NO.	DRILL SIZE REQUIRED†
5mm x .80	**813953**	11/64	10mm x 1.50	**813961**	11/32
6mm x 1.00	**813954**	13/64	12mm x 1.25	**813962**	13/32
7mm x 1.00	**813956**	15/64	12mm x 1.50	**813963**	13/32
8mm x 1.25	**813957**	17/64	12mm x 1.75	**813964**	27/64
8mm x 1.00	**813958**	21/64	14mm x 1.25	**813966**	33/64
9mm x 1.25	**813959**	5/16	14mm x 1.50	**813967**	15/32
10mm x 1.00	**813952**	23/64	14mm x 2.00	**813965**	15/32
10mm x 1.25	**813960**	S			

†Order drills separately.

HEX DIES

- **Made in U.S.A.**
- **High quality carbon tool steel.**
- **Permanently marked with size and starting side.**
- **Hard-chrome finish.**
- **Right hand threads.**

MACHINE SCREW SIZES			FRACTIONAL SIZES				METRIC SIZES		
SIZE	O.D. INCHES	PART NO.	SIZE INCHES	O.D. INCHES	USS PART NO.	SAE PART NO.	SIZE	O.D. INCHES	PART NO.
4-40	1	**813901**	1/4	1	**813907**	**813917**	M3 x .50	1	**813968**
6-32	1	**813902**	5/16	1	**813908**	**813918**	M8 x 1.25	1	**813974**
8-32	1	**813903**	3/8	1	**813909**	**813919**	M10 x 1.25	1	**813977**
10-24	1	**813904**	7/16	1	**813910**	**813920**	M10 x 1.50	1	**813978**
10-32	1	**813905**	1/2	1	**813911**	**813921**	M11 x 1.50	1	**813979**
12-24	1	**813906**	9/16	1-7/16	**813912**	**813922**	M12 x 1.25	1	**813983**
--	--	---	5/8	1-7/16	**813913**	**813923**	M12 x 1.50	1	**813980**
--	--	---	3/4	1-7/16	**813914**	**813924**	M14 x 2.00	1	**813982**

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ULTRA-CUT TAPS and DIES

HIGH SPEED STEEL TAPS - MACHINE SCREW and FRACTIONAL

SIZE	PLUG STYLE PART NO.	TAPER STYLE PART NO.	BOTTOMING STYLE PART NO.	SETS* PART NO.	DRILL SIZE REQUIRED†
4-40 USS	**814800**	**814820**	**814840**	**814860**	#44
5-40 USS	**814801**	**814821**	**814841**	**814861**	#43
6-32 USS	**814802**	**814822**	**814842**	**814862**	#36
6-40 SAE	**814803**	**814823**	**814843**	**814863**	#33
8-32 USS	**814804**	**814824**	**814844**	**814864**	#29
8-36 SAE	**814805**	**814825**	**814845**	**814865**	#29
10-24 USS	**814806**	**814826**	**814846**	**814866**	#25
10-32 SAE	**814807**	**814827**	**814847**	**814867**	#21
12-24 USS	**814808**	**814828**	**814848**	**814868**	#16
12-28 SAE	**814809**	**814829**	**814849**	**814869**	#16
1/4-20 USS	**814810**	**814830**	**814850**	**814870**	#7
1/4-28 SAE	**814811**	**814831**	**814851**	**814871**	#3
5/16-18 USS	**814812**	**814832**	**814852**	**814872**	F
5/16-24 SAE	**814813**	**814833**	**814853**	**814873**	I
3/8-16 USS	**814814**	**814834**	**814854**	**814874**	5/16
3/8-24 SAE	**814815**	**814835**	**814855**	**814875**	Q
7/16-14 USS	**814816**	**814836**	**814856**	**814876**	U
7/16-20 SAE	**814817**	**814837**	**814857**	**814877**	25/64
1/2-13 USS	**814818**	**814838**	**814858**	**814878**	27/64
1/2-20 SAE	**814819**	**814839**	**814859**	**814879**	29/64
9/16-12 USS	**814880**	**814899**	**814918**	**814937**	31/64
9/16-18 SAE	**814881**	**814900**	**814919**	**814938**	33/64
5/8-11 USS	**814882**	**814901**	**814920**	**814939**	17/32
5/8-18 SAE	**814883**	**814902**	**814921**	**814940**	37/64
3/4-10 USS	**814884**	**814903**	**814922**	**814941**	21/32
3/4-16 SAE	**814885**	**814904**	**814923**	**814942**	11/16
7/8-9 USS	**814886**	**814905**	**814924**	**814943**	49/64
7/8-14 SAE	**814887**	**814906**	**814925**	**814944**	13/16
1-8 USS	**814888**	**814907**	**814926**	**814945**	7/8
1-12	**814889**	**814908**	**814927**	**814946**	59/64
1-14 SAE	**814890**	**814909**	**814928**	**814947**	15/16
1-1/8-7 USS	**814891**	**814910**	**814929**	**814948**	63/64
1-1/8-12 SAE	**814892**	**814911**	**814930**	**814949**	1-3/64
1-1/4-7 USS	**814893**	**814912**	**814931**	**814950**	1-7/64
1-1/4-12 SAE	**814894**	**814913**	**814932**	**814951**	1-11/64
1-3/8-6 USS	**814895**	**814914**	**814933**	**814952**	1-7/32
1-3/8-12 SAE	**814896**	**814915**	**814934**	**814953**	1-19/64
1-1/2-6 USS	**814897**	**814916**	**814935**	**814954**	1-11/32
1-1/2-12 SAE	**814898**	**814917**	**814936**	**814955**	1-27/64

***Sets consists of one (1) each: Plug, Taper and Bottoming Tap**
†Order drills separately.

3 Flutes - sizes 4-40 thru 6-40

4 Flutes - sizes 8-32 thru 1/2-20, 9/16-12 thru 1-1/4-7, 1-3/8-6, and 1-1/2-6

6 Flutes - sizes 1-3/8-12 and 1-1/2-12

HIGH SPEED STEEL - SPIRAL POINT TAPS

USS (COARSE) SIZES SIZE	PART NO.	SAE (FINE) SIZES SIZE	PART NO.	METRIC SIZES SIZE	PART NO.
4-40	**814500**	4-48	**814501**	2.5 x .45	**814535**
--	**---**	4-36	**814502**	3 x .50	**814536**
5-40	**814503**	5-44	**814504**	3.5 x .60	**814537**
6-32	**814505**	6-40	**814506**	4 x .70	**814538**
8-32	**814507**	8-36	**814508**	5 x .80	**814539**
10-24	**814509**	10-32	**814510**	6 x 1.00	**814540**
12-24	**814511**	12-28	**814512**	8 x 1.25	**814541**
1/4-20	**814513**	1/4-28	**814514**	10 x 1.50	**814542**
5/16-18	**814515**	5/16-24	**814516**	12 x 1.75	**814543**
3/8-16	**814517**	3/8-24	**814518**	--	**---**
7/16-14	**814519**	7/16-20	**814520**	--	**---**
1/2-13	**814521**	1/2-20	**814522**	--	**---**
5/8-11	**814523**	5/8-18	**814524**	--	**---**
3/4-10	**814525**	3/4-16	**814526**	--	**---**

- **Made in the USA.**
- **Triple heat treated M7 steel.**
- **Outlasts carbon steel 10 to 1.**
- **Gold surface treated for maximum lubricity.**
- **Spiral point drives chips ahead of the tap, which permits higher speeds and faster cutting with less torque.**
- **Precision ground threads for the ultimate in accuracy and performance.**
- **Plug style.**

HIGH SPEED STEEL - HEX DIES

- **Made in the USA.**
- **Triple heat treated M7 steel.**
- **Outlasts carbon steel 10 to 1.**
- **Gold surface treated for maximum lubricity.**
- **Precision ground threads for the ultimate in accuracy and performance.**

USS (COARSE) SIZES SIZE	O.D.	PART NO.	SAE (FINE) SIZES SIZE	O.D.	PART NO.
4-40	1	**814550**	10-32	1	**814554**
6-32	1	**814551**	1/4-28	1	**814557**
8-32	1	**814552**	5/16-24	1	**814559**
10-24	1	**814553**	3/8-24	1	**814561**
12-24	1	**814555**	7/16-20	1	**814563**
1/4-20	1	**814556**	1/2-20	1	**814565**
5/16-18	1	**814558**	9/16-18	1-7/16	**814567**

USS (COARSE) SIZES SIZE	O.D.	PART NO.	SAE (FINE) SIZES SIZE	O.D.	PART NO.
3/8-16	1	**814560**	5/8-18	1-7/16	**814569**
7/16-14	1	**814562**	3/4-16	1-7/16	**814571**
1/2-13	1	**814564**	--	--	**---**
9/16-12	1-7/16	**814566**	--	--	**---**
5/8-11	1-7/16	**814568**	--	--	**---**
3/4-10	1-7/16	**814570**	--	--	**---**

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ULTRA-CUT TAPS, SPECIAL TAPS, DIES, TOOLS and TAP & DIE SETS

COMBINATION DRILL-TAP

High speed steel drills and taps in one operation.

- **Eliminates loose, sloppy holes because wrong size drill was used.**
- **Reduced shank minimizes breakage due to overrun.**
- **Only 1 setup required.**
- **Provides precision tapped holes in one - 2 stage process.**

Part No. 814435
6 pieces • 6 items
12048 plastic tray

814425	814428	814431
814426	814430	814432

Numbers in assortment

Part No. 814436
5 pieces • 5 items
12048 plastic tray

814430	814432	814434
814431	814433	

Numbers in assortment

THREAD SIZE	PART NUMBER	DRILL SIZE MM	THREAD LENGTH MM	OVERALL LENGTH MM
6-32*	**814425**	2.7	12	51
8-32	**814426**	3.5	12	64
10-24	**814427**	3.9	15	72
10-32	**814428**	3.9	15	72
12-24	**814429**	4.5	16	77
1/4-20	**814430**	5.1	18	83
5/16-18	**814431**	6.5	21	94
3/8-16	**814432**	8.0	22	104
7/16-14	**814433**	9.2	25	107
1/2-13	**814434**	10.8	29	114

*** Not a reduced shank**

PIPE THREAD TAPS

Ground Threads • Carbon Tool Steel

- **Cuts internal threads in pipes.**
- **Ideal where extremely tight fit is required.**
- **Drill size permanently marked on each tap.**

PART NUMBER	TAP SIZE NPT INCHES	USE DRILL SIZE	PART NUMBER	TAP SIZE NPT INCHES	USE DRILL SIZE
813701	1/8-27	11/32	**813706**	1" - 11-1/2	1-5/32
813702	1/4-18	7/16	**813707**	1-1/4" - 11-1/2	1-1/2
813703	3/8-18	37/64	**813708**	1-1/2" - 11-1/2	1-47/64
813704	1/2-14	23/32	**813709**	2" - 11-1/2	2-7/32
813705	3/4-14	59/64			

TAP AND REAMER WRENCHES

- **Professional quality.**
- **Rugged, long lasting construction.**
- **Hardened and heat treated steel jaws.**
- **Adjusts easily by turning handles.**

PART NUMBER	FOR TAP SIZE INCHES
813135	No. 4 m/s - 1/2
813136	1/4 - 3/4
813137	1/2 - 1-1/8

DIE STOCK

- **Professional quality.**
- **Chrome steel handles.**
- **3-jaw self centering adjustable guides.**
- **Assures straight threads and easy handles.**

PART NUMBER	FOR DIES INCHES
813134	1-1/2 Round & 1-7/16 Hex O.D.

TAP SOCKET SET

Part No. 213653

- **Ideal for use in areas where a T-handle won't fit.**
- **Set of 8 sockets fits all number and fractional standard taps thru 1/2".**
- **Also fits 1/8" NPT taps and metric taps thru 12mm.**

TAP & DIE SETS

- **Made of tough tool steel, hard chrome finish.**
- **Made in USA.**
- **Hardened and tempered to cut smooth threads.**

27 PIECE MECHANIC SETS

KIT CONTAINS:

1 Die Stock for 1" round or hex
1 Tap Wrench for 4MS-1/2"
1 T-Handle Tap Wrench for 1/4" - 1/2"
1 Screw Pitch Gauge for 9 to 40 U.S. (fractional set)
1 Metric Thread Gauge for 0.45 to 2.50mm (metric set)
1 Screwdriver - No.5

FRACTIONAL SET
Part No. 813030
11 taps • 11 one inch hex dies

METRIC SET
Part No. 813035
11 taps • 11 one inch hex dies

THREAD	SIZE AND THREADS PER INCH				
NC	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13
NF	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20
NPT	1/8-27				

SIZE AND PITCH			
3mm-.60	6mm-1.00	9mm-1.25	12mm-1.75
4mm-.70	7mm-1.00	10mm-1.50	1/8-28 BSP
5mm-.80	8mm-1.25	12mm-1.50	

40 PIECE MECHANIC SETS

KIT CONTAINS:

1 Die Stock for 1" round or hex
1 Tap Wrench for 4MS-1/2"
1 T-Handle Tap Wrench for No. 0 - 1/4"
1 T-Handle Tap Wrench for 1/4" - 1/2"
1 Screw Pitch Gauge for 9 to 40 U.S. (fractional set)
1 Metric Thread Gauge for 0.45 to 2.50mm (metric set)
1 Screwdriver - No.5

FRACTIONAL SET
Part No. 813031
17 taps • 17 one inch hex dies

METRIC SET
Part No. 813036
17 taps • 17 one inch hex dies

THREAD	SIZE AND THREADS PER INCH					
NC	4-40	6-32	8-32	10-24	12-24	1/4-20
NC	5/16-18	3/8-16	7/16-14	1/2-13		
NF	10-32	1/4-28	5/16-24	3/8-24	7/16-20	1/2-20
NPT	1/8-27					

SIZE AND PITCH				
3mm-.60	5mm-.80	8mm-1.25	10mm-1.25	12mm-1.50
3mm-.60	5mm-.90	9mm-1.00	10mm-1.50	12mm-1.75
4mm-.70	6mm-1.00	9mm-1.25	11mm-1.50	1/8-28 BSP
4mm-.75	7mm-1.00			

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THREAD REPAIR TOOLS

MASTER RETHREADING SET

- Repairs fractional or metric threads.
- Taps and dies are hex-shaped for use with a socket or wrench.
- Rethreading tools are color coded for quick, visual identification.
- 40 piece set contains: 7 NC Coarse Die sizes, 7 NF Fine Die sizes, 6 Metric Die sizes, 6 NC Tap sizes, 6 NF Tap sizes, 6 Metric Tap sizes, one SAE (8 sizes) and one metric (8 sizes) rethreader file.

Part No. 813221

EXTRACTOR TOOLS

5 assorted screw extractors for removing screw or bolt sizes 3/16" to 3/4". Each extractor is permanently marked with suggested drill size.

Part No. 11375

EXTERNAL THREAD RESTORING FILE

- Restores damaged external threads.
- Use for either right or left hand threads.

PART NUMBER	THREAD SIZE PER INCH
813131	11, 12, 13, 14, 16, 18, 20, 24

OIL DRAIN PAN RETHREADING KIT

PART NUMBER	SIZE
813848	1/2"-20 SAE
813962	12mm x 1.25
813963	12mm x 1.50
813964	12mm x 1.75
813966	14mm x 1.25
813967	14mm x 1.50

Part No. 323420
6 pieces • 6 items
12028 plastic tray

813848 813963 813966
813962 813964 813967

Numbers in assortment

Actual "cutting" taps for drain pan repair.

UNIVERSAL THREAD REPAIR - COMBINATION INTERNAL/EXTERNAL

Part No. 813390

PART NUMBER	CONTENTS	HEAVY DUTY SET METRIC	FRACTIONAL
813390	3 pc set	(1) External 4-18mm	5/32"-11/16"
		(2) Internal 8-16mm	5/16"-5/8"

Part No. 813393

Mini Kit package size: 5-13/16" L, 4-1/16" W, 13/16" H

PART NUMBER	CONTENTS	ECONOMY SET (MINI KIT) METRIC	FRACTIONAL
813393	3 pc set	(1) External 4-13mm	5/32"-1/2"
		(2) Internal 5-12mm	#12-1/2"

*Mini Kit - weight less than 1 lb.

Ideal for maintaining plumbing, construction, agriculture, car repair and many other applications where components have damaged threads. Compare the cost of disassembling the part in order to repair a component, with the instant repair performed by these thread restorers.

- Automatically adjust to any thread diameter & pitch.
- No prior measurement of threads.
- Use on left or righ handed threads.
- Use on both inch and metric.

Part No. 813390

Part No. 813393

EXTERNAL BOLT RETHREADING TOOL

- Quickly adjusts to any diameter.
- Blades automatically adapt to any thread pitch.
- Will adjust themselves into the thread grooves.
- Can be used on L/H or R/H threads.
- Can be used on metric/standard threads.

PART NUMBER	ADJUSTMENT MINIMUM	MAXIMUM
813785	5/32 - 11/16	4mm - 18mm
813758	11/16 - 1-1/2	17mm - 38mm
813786	1-1/4 - 5	32mm - 128mm

Replaces Many Dies

TYPICAL EXAMPLES OF USE:

REPLACEMENT BLADES & ACCESSORIES

PART NUMBER	DESCRIPTION
813757	Replacement blade for 813785
813759	Replacement blade for 813758
813789	Replacement blade for 813786
813387	Used only with 813786. Enables the rethreader to glide over key-way, slots, grooves or channels. For Repairing of threaded shafts with a slot for key or tab washer.

813386 shown here

ASSORTMENTS AVAILABLE

PART NUMBER	CONTENTS	
813755	2 pc. set:	(1) each 813785 & 813758
813385	4 pc. set:	(1) each 813785, 813757-blade
		(1) each 813758, 813759-blade

PART NUMBER	CONTENTS	
813386	8 pc. set:	(1) each 813785, 813757-blade
		(1) each 813758, 813759-blade
		(1) each 813786, 813789-blade
	extension rod, internal thread cleaner in a plastic case.	

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THREAD REPAIR TOOLS and EXTRACTORS

INTERNAL THREAD RESTORERS

- Quickly adjusts to any thread diameter and pitch within the size range of the tool.
- A major advantage over taps is the ability to enter below the first damaged grooves, often at the bottom of the thread, and work in a outward direction.
- Applicable to all kinds of thread: inch, metric right-hand or left-hand, fine or coarse.
- The blade, made of high speed steel (62RC), is guided by the existing undamaged thread to regroove the damaged section.

PART NUMBER	ADJUSTMENT I.D. RANGE INCH	MM	PIPES BSP/NPT
813375	1/2 - 5/8	12mm - 16mm	1/4 - 3/8
813376	11/16 - 13/16	16mm - 20mm	3/8 - 1/2
813377	7/8 - 1-1/4	22mm - 32mm	1/2 - 7/8
813378	1-1/4 - 2-1/8	32mm - 54mm	7/8 - 1-3/4

Replaces Many Taps

TYPICAL EXAMPLES OF USE:

REPLACEMENT BLADES & ACCESSORIES

PART NUMBER	DESCRIPTION
813379	Replacement blade for 813375
813380	Replacement blade for 813376
813381	Replacement blade for 813377
813389	Replacement blade for 813378
813388	Internal Thread Cleaner Tool

ASSORTMENTS AVAILABLE

PART NUMBER	CONTENTS
813383	(1) each 813375, 813376, 813377 with a spare blade for each
813384	(1) each 813375, 813376, 813377, 813378 with a spare blade for each

813384 shown here

SUPER OUT

BOLT AND SCREW EXTRACTORS.

PART NUMBER	INDIVIDUAL SIZES USE DRILL SIZE	BOLT SIZE MAXIMUM
113290	1/8	1/4
113291	5/32	5/16
113292	15/64	3/8
113293	9/32	1/2
113294	3/8	5/8

- Made of a special, hardened, shock-resistant tool steel.
- Works on both left and right hand threads.
- Cuts straight into bolts, eliminating wedging.
- Five sizes remove 1/4" to 5/8" bolts and screws.

Part No. 113224
5 piece set, packed in a protective case

SUPREME EXTRACTORS

Double edge engagement with the fastener for a non-slip grip • Saves expensive components

- Universal - remove right or left handed thread.
- May be used clockwise or counter clockwise.
- Unique tapered flute style.
- Hex drive shaft - easily attaches to an adjustable, box or socket wrench for added torque.
- 4 cutting facets - each facet has a double edge.
- Won't damage threads.
- Special tempered CrV steel with a hardened center punch for increased drilling accuracy.
- Damaged free removal of broken screws & bolts.

Part No. 213750
(shown here)

PART NUMBER	SIZE	DESCRIPTION	A/F INCH	DRILL DIA. INCH MIN	MAX	SCREW SIZES INCH MIN	MAX
213751	1	Screw Extractor	1/4	1/8	3/16	3/16	1/4
213752	2	Screw Extractor	3/8	3/16	9/32	5/16	3/8
213753	3	Screw Extractor	1/2	1/4	3/8	7/16	1/2
213754	4	Screw Extractor	5/8	11/32	1/2	1/2	9/16
213755	5	Screw Extractor	3/4	7/16	5/8	5/8	3/4
213750	1-5	Screw extractor 5 pc. set in vinyl pouch					

INSTRUCTIONS

- Choose the proper size Supreme Screw Extractor by placing it over the damaged bolt or stripped screw.
- Hit with a hammer to engage the center punch.
- Using a drill, make a small hole.
- When finished, reseat the Supreme Extractor over the damaged component.
- Now you are ready to remove the damaged bolt or screw.
- If added torque is necessary, attach a wrench to back out the screw.

Setting the extractor with a tap wrench

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EXTRACTORS

X-OUT™ Damaged Screw Remover *Industrial Series*

When a screwdriver can't remove the screw, use X-OUT™

Have you damaged or rounded off the head of a screw when inserting or removing them? X-Out™ is designed to remove such a problem screw. It plows onto the head of the screw and turns the screw out with the power of the hand drill.

- **Constructed of M-2 high quality tool steel.**
- **Remove damaged screws fast and easy.**
- **Time savings - no hole drilling required.**
- **Reusable time and time again.**
- **Save money on unnecessary repair.**
- **Used on Phillips, Slotted, Torx, Robinson, Oneway screws, etc.**
- **Made in USA.**
- **Removes screw sizes #6 thru #14.**
- **Chemical and gunk free.**

New Design

Part No. 213714
3 bit set
with case

COMPATIBLE WITH QUICK CONNECT CHUCK SYSTEMS.

SUGGESTED APPLICATION:

- Chuck the **X-Out™** into standard 3/8 inch variable speed power drill, set for reverse mode. For faster results use a standard 1/4" quick bit holder (not provided).
- Place the tip of the **X-Out™** onto the center of the damaged fastener. Apply firm pressure in the direction of the damaged screw or fastener. Power the drill to the lowest level possible. Maintain a firm pressure towards the screw or fastener. The screw will begin to turn out.

proGRABIT® Broken Bolt & Damaged Screw Remover *Industrial Series*

ProGrabit is a drill and extractor in one tool that removes screws or bolts with any type of damaged head, from any material. No more guesswork in matching drill size with extractor, as with manual tools. ProGrabit's quick connect chuck capability increases its ease of use. Simply drill, then flip and extract.

- **Serrated edges bite into damaged screws without slipping.**
- **Drills into Grade 8 or 10.9 class bolts.**
- **Self-centering, tip prevents "walking" or "wandering".**
- **Overcomes even rusted screws, free spinning screws and screws up to 4" long.**

TYPICAL APPLICATIONS
● **Automotive** ● **Home building/remodeling/restoration**
● **Furniture restoration** ● **General maintenance** ● **Small engine repair**

Part No. 213707
4 bit set
with case

DRILL-OUT® POWER EXTRACTORS *Industrial Series*

A unique removal tool that is a drill and extractor in one!

- **Removes broken bolts, screws and studs in a fraction of the time.**
- **Left hand drill bit* often loosens bolts while drilling.**
- **Self-centering drill point for fast accurate drilling.**
- **Efficient design making it fast, reliable and reusable.**
- **Heat treated high-speed steel drills Grade 8 fasteners.**

EASY TIME SAVING OPERATION!

DRILL-OUT® Micro Power Extractor

Use on small size fasteners, often found in electrical and aviation applications, and motorcycle repair.

Removes #5, #6, #8, #10, #12, and 1/4" sizes and 3mm, 4mm, 5mm and 6mm sizes.

Part No. 213705
4 piece set with case

DRILL-OUT® Power Extractor

Use on common size fasteners, up to and including Grade 8, Class 10.9 steel and stainless steel.

Removes 1/4", 5/16", 3/8" and 1/2" sizes and 6mm, 8mm, 10mm and 12mm sizes.

Part No. 213604
4 piece set with case

**** Designed to be used in a variable speed drill, set in reverse.***

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CARBIDE BURS

CARBIDE BURS (Rotary Files)

Used in maintenance operations , foundries, manufacturing, aircraft industry, pattern shops.
Removes heavy stock welds, excess metal, deburrs, smooths and finishes. Elongates holes and slots.

- Ideal for hard to reach areas.
- Outlasts steel burs 100 times longer.
- Saves money - less changing of burs.
- Highly recommended for long production runs.
- Works on all types of materials, hard or soft, equally well.
- Used with flexible shaft or stationary shaft machines, portable electric or air tools.
- Double cut design — allows rapid stock removal, and can be run at slower than normal speeds.
- Carbide bur brazed on steel shanks.
- Average RPM's 23, 400 depending on style and diameter.

CYLINDER "A"

HEAD DIA. X LENGTH	PART NUMBER	SHANK DIA.
1/4 x 1/2	**814600**	1/8
1/4 x 5/8	**814601**	1/4
3/8 x 3/4	**814602**	1/4
1/2 x 1	**814603***	1/4
5/8 x 1	**814604**	1/4

CYLINDER W/BALL NOSE "C"

HEAD DIA. X LENGTH	PART NUMBER	SHANK DIA.
1/4 x 1/2	**814623**	1/8
1/4 x 5/8	**814605**	1/4
3/8 x 3/4	**814606***	1/4
1/2 x 1	**814607***	1/4

BALL SHAPE "D"

HEAD DIA. X LENGTH	PART NUMBER	SHANK DIA.
1/4 x 1/2	**814608**	1/8
1/4 x 1/4	**814609**	1/4
5/16 x 5/16	**814610**	1/4
1/2 x 1/2	**814611***	1/4

EGG SHAPE "E"

HEAD DIA. X LENGTH	PART NUMBER	SHANK DIA.
1/4 x 3/8	**814612**	1/4
3/8 x 5/8	**814613**	1/4
1/2 x 7/8	**814614**	1/4

ROUND TREE SHAPE "F"

HEAD DIA. X LENGTH	PART NUMBER	SHANK DIA.
1/4 x 1/2	**814615**	1/8
1/4 x 5/8	**814616**	1/4
3/8 x 3/4	**814617***	1/4
1/2 x 1	**814618***	1/4

POINTED TREE SHAPE "G"

HEAD DIA. X LENGTH	PART NUMBER	SHANK DIA.
1/4 x 1/2	**814619**	1/8
1/4 x 5/8	**814620**	1/4
3/8 x 3/4	**814621***	1/4
1/2 x 1	**814622**	1/4

– ASSORTMENT AVAILABLE–

8 PIECES PACKED IN A STURDY WOODEN BOX.

Part No. 814005

*** Included in assortment.**

14° INCLUDED ANGLE "L"

HEAD DIA. X LENGTH	PART NUMBER	SHANK DIA.
1/4 x 5/8	**814624**	1/4
3/8 x 1-1/16	**814625**	1/4
1/2 x 1-1/8	**814626***	1/4

CONE SHAPE "M"

HEAD DIA. X LENGTH	PART NUMBER	SHANK DIA.	INCL. ANGLE
1/4 x 1/2	**814627**	1/8	22°
1/4 x 3/4	**814628**	1/4	14°
1/2 x 7/8	**814629**	1/4	28°

TRIPLETOOTH™ HACKSAW BLADES

ONE BLADE DOES IT ALL

32TPI
Gets the cut started…

24TPI
Allows for more aggressive strokes and…

18TPI
Completes the cutting stroke…

Designed for a Variety of Cutting Applications
It's unique construction eliminates the need for three different blades.
CUT THICK, THIN, HARD OR SOFT MATERIALS

PROUDLY MADE IN THE USA

Part No. 113333 10

The NEW 18/24/32 TRIPLE TOOTH™ Hacksaw Blade
It's like having three blades in one

Lead off with 32tpi, 24tpi in the middle, and the 18tpi finishes the cut. Depending on the material...you have the option of isolating one section of the blade or utilizing maximum cutting efficiency with all three.

USE ON THE FOLLOWING:

- Conduit
- Stainless Steel
- Angle Iron
- Copper Tubing
- Structural Material
- Machinable Metal
- Plastics
- Wood
- And more...

- Unique tooth design combines 3 different cutting edges in one 12 inch blade.
- 3 popular tooth configurations, 18, 24 & 32 teeth per inch together.
- Bi-Metal construction with 8% cobalt alloy resists heat build up to keep the teeth sharp.
- Provides straight, accurate cuts and resists walking or slipping, unlike other hacksaw blades.

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HACKSAW FRAMES and SAW BLADES

LOW PROFILE HACKSAW FRAME

- Frame has 4" pipe clearance combined with sloped front for access in tight work spaces.
- 1-piece I-beam construction and high-tension design for strength and durability.
- Contoured handle for cutting comfort.
- Comes with 18 TPI blade.
- Lever tension control.

Part No. 113311

CLOSE QUARTER HACKSAW FRAME

- Fits into tight spots.
- Ideal for cutting overhead or behind walls.
- Comes with 6 x 3/4" x .014 x 32T blade.
- Replacement blade order: Part No. 113305

Part No. 114547

STANDARD HACKSAW FRAME

- For tight spots and through holes.
- Cuts flush — Die cast handle.
- Baked enamel finish.

Part No. 11374

HIGH TENSION HACKSAW FRAME

- Lightweight with lever tension control.
- Storage in head for 10 Super-Flex II blades.
- Tightens blade to 30,000 PSI to prevent twisting.
- Can be used as a jab and compass saw.
- Provides easy starting and fast cutting.
- Soft front end grip.

Part No. 113310

MINI HACKSAW FRAME

Part No. 113312

- Versatile - cuts bolts, pipe, tubing, conduit, sheet metal, wire, cable, fiberboard & plastic.
- Designed for hard to reach areas.
- Rugged heavy duty aluminum handle.
- Comes with 10" bi-metal blade.
- Replacement blades available in 12".

SUPER-FLEX II HACKSAW BLADES

The world's toughest high speed bi-metal steel blade.
• Shatterproof • Flexible • Made in U.S.A.

- Bi-metal alloy steel, is spring tempered, to eliminate snapping and shattering.
- Made from super hard, high speed steel, giving it the edge in cutting steel, plastic, wood, etc.
- Electron-Beam welding fuses the Hi-speed cutting edge and the Flex back together. This process provides a blade life longer than any other blade made.

PART NUMBER	SIZE INCHES	TEETH PER INCH	MATERIAL THICKNESS	QTY
113301	12	18	Over 3/16	10
113302	12	24	1/16 to 3/16	10
113303	12	32	Thin sheet up to 1/16	10

TOOTH SELECTION:
To select proper pitch (Teeth per inch), three teeth minimum must be in contact with the work at all times.

The only hacksaw blade backed by a Lifetime Guarantee. Should this blade shatter under any conditions, we will replace it FREE.

SHOP ASSORTMENT
Part No. 501622
31 pieces • 4 items
12090 steel tray

113301 113303
113302 113310

Numbers in assortment

TOOL BOX ASSORTMENT
Part No. 113304
15 pieces • 3 items

113301 113302 113303

Numbers in assortment

GRIT-EDGE 12" ROD SAW BLADE

The blade with the cutting edge.

Easily cuts ceramic tile, fiberglass, slate, hardened tool steel, marble, glass, cast iron, stranded cable, fiber reinforced cement, composites.

Part No. 812116

- Cuts materials that other blades can't even scratch.
- Tungsten carbide chips permanently bonded to alloy steel rod.
- Cuts in any direction.
- Outperforms ordinary blades.
- Super tough cutting edge — no teeth to dull, blunt, chip or break.
- Fits standard hacksaw frames.

AIR SAW BLADES

Used in body shop repair, muffler and exhaust work and sun roof installation.

PART NUMBER	LENGTH INCHES	WIDTH INCHES	TK	TEETH PER INCH	QTY
114501	4	1/2	.025	18	5
114502	4	1/2	.025	24	5
114503	4	1/2	.025	32	5

- Bi-metal alloy steel is spring tempered to eliminate snapping and shattering. Virtually unbreakable.
- Matrix edge of 8% cobalt - withstands more heat and lasts longer.
- Tooth RC hardness ranges from 66-68 which allows operation at high speeds of 5,000 to 10,000 strokes per minute.
- Fits Snap-On #AT-190, Mac Tools, Florida Pneumatic, Husky #H4995, Chicago Pneumatic #CP-880 & CP-881, Devilbiss #ATP50, and Ingersoll Rand #IR429.
- Blades cut straight and curved surfaces including pipe, steel (up to 22 gauge), aluminum, fiberglass and plastic.

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SAW BLADES

PORTABLE BANDSAW BLADES

MATRIX II HIGH SPEED BI-METAL BLADES.

Fast Cutting – Long Lasting – Shock Resistant.
Out performs carbon blades Ten to One!

- **Electron-Beam welded Matrix cutting edge to alloy shock resistant back, provides maximum durability.**
- **Made from cobalt alloy to tackle the most demanding cutting job.**
- **Matrix cutting edge resists heat in excess of 1000°F.**
- **Two sizes fit virtually all portable bandsaws made.**

PORTABLE BANDSAW MACHINE LISTING

BRAND NAME	MODEL NUMBERS	BLADE SIZE LENGTH	WIDTH	THICKNESS
Milwaukee	6230, 6225, 6226	3' 8-7/8	1/2	.020
Porter Cable	721, 724, 725, 726, 736,	3' 8-7/8	1/2	.020
	728	4' 5-3/4	1/2	.020
Greenlee	530	3' 8-7/8	1/2	.020
	521, 531	4' 5-3/4	1/2	.020
Rigid	941, 942, 943	3' 8-7/8	1/2	.020
	944	4' 5-3/4	1/2	.020
Black & Decker	3122, 3123	3' 8-7/8	1/2	.020

PART NUMBER	BLADE SIZE LENGTH	WIDTH	THICKNESS	TEETH PER INCH
113464	3' 8-7/8	1/2	.020	10
113465	3' 8-7/8	1/2	.020	14
113466	3' 8-7/8	1/2	.020	18
113467	4' 5-3/4	1/2	.020	10
113468	4' 5-3/4	1/2	.020	14
113469	4' 5-3/4	1/2	.020	18

STATIONARY BANDSAW BLADES AVAILABLE THROUGH THE SPECIAL ORDER DEPT.

CARBON FLEXBACK BLADES

Cutting wood, plastics, aluminum and mild steel.

- **Made from carbon steel.**
- **Two thicknesses**
- **Withstands heat up to to 800°F.**
- **General purpose blade.**
- **Ideal for plant maintenance.**
- **Standard raker style tooth.**

PART NUMBER	BLADE SIZE LENGTH	WIDTH	THICKNESS	TEETH PER INCH	MACHINE LISTING
113473	5' 4-1/2	1/2	.025	10	Rigid 945
113474	5' 4-1/2	1/2	.025	14	Rigid 945
113477	5' 4-1/2	1/2	.025	18	Rigid 945

JIG SAW / SABER SAW BLADES

Fits: Skil, Milwaukee, B & D, Stanley, Craftsman, and most U.S. and Foreign made jig saws.

- **Bi-metal blades.**
- **Shatterproof.**
- **Tough...sharp.**
- **Made in the U.S.A.**

PART NUMBER	LENGTH x WIDTH x THICK. INCH	TEETH PER INCH	RECOMMENDED USE
113438	3-5/8 x 3/8 x .037	14	Steel & non-ferrous 1/8" up, plastic, asbestos, hard rubber, fiber
113439	3-5/8 x 3/8 x .037	18	Metal, 18 gauge to 1/8"
113440	3-5/8 x 3/8 x .037	24	Metal 18 gauge & under
113441	4 x 5/16 x .050	6	Wood, plastic, composite material, fast cutting
114496	4 x 5/16 x .050	10	Wood, very smooth/clean cut
114499*	4 x 5/16 x .050	10	Formica, laminate, plastic, chip free down cutting
114497	4-1/2 x 3/8 x .050	6	Wood, fast cut, rough cut
114498	4-1/2 x 3/8 x .050	10	Wood, nail-embedded

All blades are packed 2. *Not included in assortments.

TOOL BOX ASSORTMENT

Part No. 113442
7 piece set
Packed in a plastic pouch.

Numbers in assortment

SHOP ASSORTMENT

Part No. 501624
35 pieces • 7 items
12116 steel tray

113438	**113441**	**114498**
113439	**114496**	
113440	**114497**	

Numbers in assortment

HEAVY DUTY RECIPROCATING SAW BLADES

PART NUMBER	L x W x T INCH	TEETH PER INCH	SHAPE	RECOMMENDED USE
114483	6 x 3/4 x .050	10/ 14		Heavy gauge metal 3/16"-3/4" / 5-20mm, inc. rescue operations
114487	8 x 3/4 x .050	10/ 14		Heavy gauge metal 3/16"-3/4" / 5-20mm

All heavy duty reciprocating saw blades are packed 2.

44% thicker than standard blades.

- **More rugged and more durable in tough, metal cutting applications.**
- **Blades won't whip from side to side.**
- **Blades won't fail from tooth chippage.**

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SAW BLADES

RECIPROCATING SAW BLADES (SAWZALL)

Fits: Most U.S. and Foreign made saws.

FEATURES

- **Bi-metal construction.**
- **Matrix II type alloy high speed steel cutting edge (8% cobalt edge).**
- **Tooth hardness Rc 65-66.**
- **Precision teeth.**

BENEFITS

- **Cuts tough materials including nail-embedded wood.**
- **Longer life.**
- **Retains tooth sharpness longer.**
- **Increases productivity.**
- **Faster cutting.**

ADVANTAGES

- **Shatterproof.**
- **Shock resistant teeth.**
- **High wear resistance.**
- **High heat resistance.**

PART NUMBER	L x W x T INCH	TEETH PER INCH	SHAPE	RECOMMENDED USE
114475†	6 x 3/4 x .050	6		Plaster, plaster board
114476	6 x 3/4 x .050	6		Rough work in wood*, fast cutting used in remolding and demolition work
114477	12 x 3/4 x .050	6		
114478	6 x 3/4 x .035	6		Wood*, all composition material
114479	6 x 3/4 x .035	10		Wood*, compositions, plastic, cast aluminum & non-ferrous metals
114480	12 x 3/4 x .050	10/14		All woods*, plastic cast aluminum &

PART NUMBER	L x W x T INCH	TEETH PER INCH	SHAPE	RECOMMENDED USE
114481	4 x 3/4 x .035	14		Heavy gauge metal 1/4-1/2, 6-13mm
113430	6 x 3/4 x .035	14		Hard rubber, fiber & angle iron
114482	4 x 3/4 x .035	18		Heavy gauge metal 1/8-1/4, 3.2-6mm
113431	6 x 3/4 x .035	18		Conduit & tubing, opening wood crates*, removing wood siding or shingles.
113432	6 x 3/4 x .035	24		Metal & galvanized pipe 18 gauge & under

†V-tooth 60° angle. *Including nail-embedded wood.

All reciprocating saw blades are packed 5.

For Safety Always Wear Goggles and Face Shield when Grinding & Sanding

Part No. 501602
16 pieces • 8 items
12116 steel tray

113430	**114477**	**114481**
113431	**114479**	**114482**
114475	**114480**	

Numbers in assortment

MASTER-GRIT® RECIPROCATING BLADES

Specially designed for abrasives.

- **Master-Grit® tungsten carbide grit edge looks different from regular blades because it is different. It is specially designed for cutting tough abrasives like fiberglass, granite, cement, plywood, cast iron, and the list goes on.**
- **Recommended use: cast iron, fiberglass, ceramic wall tile, clay pipe, stone, brick, plaster, marble.**

PART NUMBER	LENGTH x WIDTH x THICK. INCH	QTY
114530	6 x 3/4 x .032	2
114531	8 x 3/4 x .040	2
114532	10 x 3/4 x .050	2

TRI-FOLD HAND SAW

Designed to cut: drywall, plaster, wood & metal.

- **Holds blades securely.**
- **Convenient blade storage**
  Safely fold blade into handle.
- **Compact design**
  Fits easily into pocket or tool box.
- **Replaceable blades**
  Uses any standard reciprocating saw blade 6" or smaller.
- **Rugged design**
  Heavy-duty aluminum handle has a comfortable hand grip.
- **Multi-purpose**
  Push button design locks blade into three different positions for multiple cutting applications.

Includes:
(one) plaster &
(one) general purpose blade

Part No. 114546

CARBIDE TIPPED RECIPROCATING BLADES

For materials that eat up other carbide blades.

- **Carbide tipped reciprocating blades last 10 times longer than standard bi-metal blades in the applications listed.**
- **The triple-chip ground teeth provides 25% faster cutting than standard carbide blades.**
- **Recommended use: fiberglass, cement board, particle board, plywood, pressure-treated wood, abrasive plastics, rubber, cast aluminum, composite, GasBrick, all hard woods.**

PART NUMBER	LENGTH x WIDTH x THICK. INCH	CUTS	DESCRIPTION	TEETH PER INCH	QTY
114535	6 x 3/4 x .050	Curves/Contours	Contour Back	6	1
114536	6 x 3/4 x .050	Straight	Straight Back	6	1
114537	8 x 3/4 x .050	Straight	Straight Back	3	1

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SAW BLADES

DEMOLITION RECIPROCATING SAW BLADES

Used for rescue, demolition and rehab work.

- **77% thicker than standard blades.**
- **Eliminates blade side to side whipping.**
- **Cuts cleanly through angle iron, wood, and metal pipe - all at the same time.**
- **Edge material from M-2 high speed steel.**
- **Bi-metal blade construction.**
- **Cuts stronger, faster and longer than other blades.**

PART NUMBER	L x W x T INCH	TEETH PER INCH	SHAPE	RECOMMENDED USE
114525	6 x 7/8 x .062	6		Demolition work in nail-embedded wood, metal, wood. Fire and rescue.
114526	9 x 7/8 x .062	6		
114527	9 x 7/8 x .062	10/ 14		
114528	12 x 7/8 x .062	6		

All demolition saw blades are packed 2 per pack.

D10C

LAZER RECIPROCATING SAW BLADES

For heavy metal cutting.

- **Longer lasting**
  Lasts 45% longer than the leading competitor's blade.
- **Greater strength and durability**
  Unique blade geometry reinforces traditional weak areas, creating stronger and more durable blades.
- **Shatter resistant Bi-metal blades bend and resist breaking and extend blade life.**
- **Optimized performance**
  Thicker (.042) and wider (1") blades minimize whipping for straighter and smoother cuts.
- **Cobalt cutting edge Is electron beam welded to bi-metal backer for greater wear resistance and longer life.**

PART NUMBER	L x W x THK	TEETH PER INCH	RECOMMENDED USE
114550	6 x 1 x .042	8	Angle iron, steel pipe to 3/16
114551	6 x 1 x .042	10	Rebar, steel rod, black pipe to 3/16-1/2
114552	6 x 1 x .042	14	Steel rod, black pipe to 3/32-3/8
114553	6 x 1 x .042	18	Copper pipe, black pipe to 1/16-1/4
114554	9 x 1 x .042	8	Angle iron, steel pipe to 3/16
114555	9 x 1 x .042	10	Rebar, steel rod, black pipe to 3/16-1/2
114556	9 x 1 x .042	14	Steel rod, black pipe to 3/32-3/8
114557	9 x 1 x .042	18	Copper pipe, black pipe to 1/16-1/4
114558	12 x 1 x .042	8	Angle iron, steel pipe to 3/16
114559	12 x 1 x .042	10	Rebar, steel rod, black pipe to 3/16-1/2
114560	12 x 1 x .042	14	Steel rod, black pipe to 3/32-3/8
114561	12 x 1 x .042	18	Copper pipe, black pipe to 1/16-1/4

All Lazer blades are packed 2 per pack.

PVC/ABS PLASTIC PIPE HAND SAWS & BLADES

Breezes through any diameter of plastic pipe, wood, and even nail embedded wood.

- **2" wide blade.**
- **Hardened teeth.**
- **Lightweight heavy-duty aluminum handle.**
- **Rigid carbon steel blade.**
- **Large comfortable handgrip for maximum finger clearance even with gloves.**

PART NUMBER	DESCRIPTION	TEETH PER INCH
114540	Handle & 12" Blade	10
114541	Handle & 18" Blade	10
114542*	Handle & 21" Blade	10
114543	12" Replacement Blade	10
114544	18" Replacement Blade	10

*** To be discontinued**

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SAW BLADES

THE ANATOMY OF THE METAL DEVIL™ CIRCULAR SAW BLADES

The secret to the Morse Metal Devil's ability to quickly and smoothly cut through tough metals lies in it's unique combination on manufacturing quality, metallurgy and blade configuration. Teeth are arranged in varying numbers around a hardened steel inner plate. Each tooth is tipped with a unique combination of tungsten carbide and titanium carbide. These tips are brazed to the plate and arranged in a manner to assure longer life and smoother cutting action.

The unique metallurgy of the carbide tips and hardened steel inner plate combined with the configuration of the teeth.

A FASTER WAY TO CUT...
The Morse Metal Devil™ cuts through steel, iron and aluminum with hardly any frictional drag. Consequently, the time savings are dramatic and important to anyone trying to get more done in less time.
CUT THROUGH SOLID STEEL PLATE IN LESS THAN 12 SECONDS...
In laboratory tests the Morse Metal Devil™ cut through 6" x 1/4" thick steel plate in less than 12 seconds. This Devil is a speed demon!
A LONGER LASTING WAY TO CUT...
The unique metallurgy of the carbide tips and hardened steel inner plate combined with the configuration of the teeth and manufacturing quality create a circular saw blade that makes more cuts per blade than any other blade you can attach to a power tool.

ALL METAL DEVIL® BLADES ARE CARBIDE TIPPED

D10C

The number of teeth on a blade depends on the diameter of the blade, the thickness and type of material being cut. Generally speaking, blades for cutting thinner materials require more teeth with smaller gullets between teeth.

Applications: Aluminum

PART NUMBER	ARBOR DIA.	BLADE DIA.	NO. OF TEETH
1,800 rpm			
901480	1 inch	14 inch	80
3,200 rpm			
900980	1 inch	9 inch	80
5,800 rpm			
972560	5/8 inch	7-1/4 inch	60
900754	20 mm	7 inch	54
900860	20 mm	8 inch	60

Applications: Steel

PART NUMBER	ARBOR DIA.	BLADE DIA.	NO. OF TEETH
1,800 rpm			
901472	1 inch	14 inch	72
3,200 rpm			
900948	1 inch	9 inch	48
5,800 rpm			
972550	5/8 inch	7-1/4 inch	50
900736	20 mm	7 inch	36
900850	20 mm	8 inch	50

FIRE & RESCUE RECIPROCATING SAW BLADES

When seconds count and lives are on the line, only the best will do!
These are the blades preferred by professional firefighters.

- **Wavy set reduces pinching during cuts.**
- **.062" blades thickness for little or no bending.**
- **Available in 6", 9" and 12" lengths.**
- **Bi-metal construction with a long lasting cutting edge.**
- **Thicker than most, significantly outlast & outperforms standard blades.**
- **Cuts smoothly through a variety of materials, without binding.**
- **Won't vibrate or whip from side to side.**
- **Use for Fire & Rescue, Demolition, Nail Embedded Wood, Ferrous & Non-Ferrous Metals.**

PART NUMBER	PACKAGE QUANTITY	LENGTH / TPI
114460	3 pk.	6" 10 TPI
114461	20 pk.	6" 10 TPI
114462	3 pk.	9" 10 TPI
114463	20 pk.	9" 10 TPI
114464	3 pk.	12" 10 TPI
114465	20 pk.	12" 10 TPI

TRIPLE EDGE RECIPROCATING SAW BLADES

The ONLY blade that cuts in either direction without turning over the saw!

- **Bi-metal steel for longer life.**
- **Teeth on opposing edges for two-way cutting.**
- **Rounded tip prevents kickback.**
- **Saves time in changing blades.**
- **Plunge cuts - no pre-drilling.**
- **Back & forth cutting - without turning the saw.**
- **Cuts wood, sheet metal, MDF, plastic & steel pipe.**
- **Two pronged tang for stability & control.**
- **Fits most reciprocating saws.**

PART NUMBER	LENGTH	TEETH PER INCH	PKG QTY
114562	6"	7 x 7	5
114563	8"	7 x 7	5
114564	10"	7 x 7	5
114565	6"	7 x 10	5
114566	8"	7 x 10	5
114567	10"	7 x 10	5
114534	6"	10 x 14	5
114538	8"	10 x 14	5
114539	10"	10 x 14	5

With saw running, place saw next to surface. Tilt saw forward so blade tip is where you want to start to cut. Rock up and down, Blade creates cut and plunges through material.

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SAW BLADES and ROTABROACH® CUTTERS

FIRE & RESCUE and TRIPLE EDGE RECIPROCATING SAW BLADE ASSORTMENT

Part No. 501765
18 pieces • 6 items
12116 steel tray

114460	114464	114538
114462	114534	114539

Numbers in assortment

ROTABROACH® CUTTERS

Body shops, frame straighteners, rustproofers and undercoaters find using *ROTABROACH® CUTTERS* is the best, fastest way to cut holes in steel, sheet metal, wood and plastic. A spring-loaded pilot guide in arbors eliminates predrilling. The cutters are designed to prevent chip clogging.

- **Heavy duty hole cutter.**
- **Revolutionary patented step-tooth design for longer cutter life.**
- **Super-fast, rugged.**
- **3x's faster and last 10x's longer than twist drills or holesaws.**
- **No deforming of stock.**
- **No jagged edges.**
- **No out of round holes.**

HEAVY DUTY USE: For sheet metal & materials up to 1/2'' - thick.

INDIVIDUAL CUTTERS

Use Arbor,
Part No. 113026

PART NUMBER	DIA. INCHES	DECIMAL EQUIVALENT
113489	1/4	.2500
113490	5/16	.3125

Use Arbor,
Part No.'s 113026 or 113027

PART NUMBER	DIA. INCHES	DECIMAL EQUIVALENT
113491	3/8	.3750
113492	7/16	.4375
113493	1/2	.5000
113494	9/16	.5625
113495	5/8	.6250
113496	3/4	.7500

ARBORS

ARBOR with Pilot Pin
For 1/4" to 3/4" (6mm-20mm) Cutters
Use Part No. 113026

ARBOR with Skip-Proof Pilot
For 3/8" to 3/4" (10mm-20mm) Cutters
Use Part No. 113027

Quality Shows...

NO deforming of stock, jagged edges or out of round holes
1. New Twist Drill
2. New Hole Saw
3. Used Rotabroach® Cutter

PILOTS

Comes three per pack.

PART NUMBER	DESCRIPTION
113028	Pilot for 113027 Arbor
113025	Pilot for 113026 Arbor

GENERAL PURPOSE KIT -
113485
Contains:
1 ea. arbor to fit 1/4", 3/8", & 1/2" chucks
1 ea. spring loaded pilot guide & center punch
1 ea. allen wrench to adjust spring tension
1 ea. extra pilot, stop and washer
1 ea. 5/16", 3/8", 7/16", 1/2". 9/16", 5/8", & 3/4" cutters
1 ea. sturdy plastic case

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HOLE SAWS and ACCESSORIES

BI-METAL HOLE SAWS

TWICE THE LIFE AS PRIOR MODELS, ENHANCED TEETH, THIN KERF DESIGN & ADVANCED COATING

GENERAL and INDUSTRIAL MAINTENANCE

PLUMBING

LOCKSMITHS

Also used by Electrician's and Automotive Shops.

New speed slot hole saws feature a staircase design for easy removal.
Easily ejects plugs with a standard screwdriver.

- **Teeth stay sharper longer for smoother cuts**
- **Faster cutting**

Easy as:

LENOX® Speed Slot 10% TALLER THAN PREVIOUS MODELS

PART NO. STANDARD CUT HOLE SAW	DIA. INCHES	DIA. MM	PART NO. ARBOR
114505	5/8	16	**113451, 480, or 481**
113452	3/4	19	**113451, 480, or 481**
113453	7/8	22	**113451, 480, or 481**
113454	1	25	**113451, 480, or 481**
113455	1-1/8	29	**113451, 480, or 481**
113456	1-1/4	32	**113482 or 498**
113457	1-3/8	35	**113482 or 498**
113458	1-1/2	38	**113482 or 498**
113459	1-3/4	44	**113482 or 498**
113460	2	51	**113482 or 498**
113463	2-1/8	54	**113482 or 498**
113461	2-1/4	57	**113482 or 498**

PART NO. STANDARD CUT HOLE SAW	DIA. INCHES	DIA. MM	PART NO. ARBOR
113462	2-1/2	63	**113482 or 498**
114506	3	76	**113482 or 498**
114507	3-1/8	79	**113482 or 498**
114508	3-1/4	83	**113482 or 498**
114509	3-1/2	89	**113482 or 498**
114510	3-5/8	92	**113482 or 498**
114511	3-3/4	94	**113482 or 498**
114512	4	102	**113482 or 498**
114513	4-1/8	105	**113482 or 498**
114514	4-1/4	108	**113482 or 498**
114515	4-1/2	114	**113482 or 498**
114516	4-3/4	121	**113482 or 498**

D10C

HOLE SAW ARBORS – ALL ARBORS ARE SUPPLIED WITH PILOT DRILL

1/4'' Rd. Shank
Fits: 9/16'' - 1-3/16''

Part No. 113480

3/8'' Hex Shank
Fits: 9/16'' - 1-3/16''

Part No. 113451

1/2'' Hex Shank
Fits: 9/16'' - 1-3/16''

Part No. 113481

3/8'' Hex Shank
Fits: 1-1/4'' - 6''

Part No. 113482

1/2'' Hex Shank
Fits: 1-1/4'' - 6''

Part No. 113498

Snap-Back
Fits: 1-1/4'' - 6''

Part No. 114517

Snap-Back
Fits: 5/8'' - 1-1/8''

Part No. 114518

1/4'' PILOT DRILLS

Fits: 113480, 113481 and 113498

Part No. 113483

Fits: 113451 & 113482

Part No. 113484

ASSORTMENTS

Portable, easy to carry. Perfect size for those small jobs around the shop or out in the field.

7 PC. STARTER ASSORTMENT

Part No. 113450
1 ea. - 3/4", 7/8", 1", 1-1/8", 1-1/4", Arbor 113451 and adapter in plastic case.

Numbers in assortment

Complete coverage for bringing pipe and conduit through floors, ceilings, walls and into junction boxes.

ELECTRICIAN ASSORTMENT

Part No. 501637
15 pieces • 13 items
12090 steel tray
Includes 113481, 113498 Arbors and 3 spare pilot drills.

113453	**113459**	**113481**	**113506**	**113516**
113455	**113460**	**113483**	**113510**	
113457	**113462**	**113498**	**113513**	

Numbers in assortment

SHOP ASSORTMENT

Part No. 501636
17 pieces • 15 items
12051 steel tray
Includes 113481, 113498 Arbors and 3 spare pilot drills.

113451	**113455**	**113458**	**113462**	**113498**
113453	**113456**	**113459**	**113481**	**113505**
113454	**113457**	**113460**	**113483**	**113506**

Numbers in assortment

INDUSTRIAL MAINTENANCE ASSORTMENT

Part No. 501638
21 pieces • 19 items
12090 steel tray
Includes 113481, 113498 Arbors and 3 spare pilot drills.

113452	**113457**	**113461**	**113498**	**111511**
113453	**113458**	**113462**	**113506**	**113513**
113454	**113459**	**113481**	**113508**	**113516**
113455	**113460**	**113483**	**113510**	

Numbers in assortment

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FILES

SQUARE

- Used on plain surfaces for filing keyways and slots.
- Four double cut filing surfaces.

PART NUMBER	LENGTH INCHES
313304	6
313305	8
313306	10
313307	12

THREE SQUARE

- Used for internal angles more acute than right angles and filing of taps and cutters.
- Triangular cross-section, double cut with sharp edges.

PART NUMBER	LENGTH INCHES
313301	6
313302	8
313303	10

CANTSAW

- Used for cross-cut saws with "M" teeth, circular saws and teeth with less than 60° angle.
- Single cut.

PART NUMBER	LENGTH INCHES
313299	6
313300	8

HALF ROUND BASTARD

- Used for convex, concave and flat surfaces.
- Round on one side and flat on the other side.
- Tapered in width & thickness.

PART NUMBER	LENGTH INCHES
313323	6
313328	8
313329	10
313330	12
313331	14

FLAT BASTARD

- Used for working on steel, iron, etc.
- Enables quick removal on plain surfaces.
- Double cut on sides and single cut on edges.
- Tapered in width & thickness.

PART NUMBER	LENGTH INCHES
313324	6
313325	8
313326	10
313327	12

MILL

- Used for sharpening mill saws, circular saws, axes, hoes, spades, knives & for finishing metals.
- Single cut on sides and edges.

Smooth

PART NUMBER	LENGTH INCHES
313310	6
313311	8
313312	10

Bastard

PART NUMBER	LENGTH INCHES
313319	4
313320	6
313337	8
313338	10
313339	12
313321	14
313322	16

ROUND CHAIN SAW

- Used for filing round gullets on saws.
- Parallel in shape.
- Leaves smooth chain cutting edge.

PART NUMBER	LENGTH INCHES
313309	6 x 5/32
313343	8 x 3/16
313344	8 x 7/32
313345	8 x 1/4

ROUND BASTARD

- Used for circular openings and concave surfaces.
- Shape slightly tapered toward point.

PART NUMBER	LENGTH INCHES
313332	4
313333	6
313334	8
313335	10
313336	12

TAPER SAW

- Used for saws with 60° angle teeth.
- Triangular cross-section.
- Single cut on sides and edges.

PART NUMBER	DESCRIPTION	LENGTH INCHES
313340	Slim	6
313341	Slim	8
313342	Slim	10
313313	Extra Slim	4
313314	Extra Slim	5
313315	Extra Slim	6
313317	Double Extra Slim	6
313318	Double Extra Slim	7

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FILES & ACCESSORIES, CUTTERS and SNIPS

AXLE HANDLED BASTARD

- Double duty file, bastard cut on one side and finger teeth on the other side.
- Single cut.
- Handy hole for hanging.

PART NUMBER	LENGTH INCHES
313297	8
313298	10

SHOE RASP (4 IN 1)

- Produces a fast, rough cut appropriate for wood, leather, hooves and soft metal.
- Avoids clogging.

PART NUMBER	LENGTH INCHES
313308	8

FILE HANDLES

- Collar brand plastic file handles.
- Unique chamfered tang-end to facilitate hand holding with complete safety.

PART NUMBER	LENGTH INCHES
313291	4 - 6
313292	6 - 10
313294	12 - 16

FILE CARD/BRUSH

- Used for easy cleaning of files.
- Improves work and prolongs life of file.

Part No. 313296

FILE & RASP SET

- Set contains (5) 8" files (overall length 12-5/16" with handle).
- Includes:" flat, round, halfround, square and threesome.
- Each file is individually hardened to 64 HRC for longer tool life.
- All files are made from high quality chromium alloy steel.
- Use on metal, plastic, wood, leather, glass, etc.
- Use to sharpen axes, knives, scissors, mower blades, etc.

Part No. 313350

POWER CUTTER UTILITY SNIPS

The powerful, all purpose cutting tool.

A true mechanic's aid for the automotive and auto body shop.

- Stainless steel blades are offset to keep hands above material for safe, easy, accurate cutting action.
- Cuts thin gauge sheet metal, wire, leather, rubber, vinyl, sandwich gaskets, fibre glass cloth, metal screen, hoses, floor mats and carpeting.

Part No. 213224

AVIATION SNIPS

Part No. 113320
YELLOW HANDLES

Part No. 113321
GREEN HANDLES

Part No. 113322
RED HANDLES

- Cuts all sheet metals up to 18 gauge, with half the effort of conventional snips.
- Compound action "Aviation Snips" conform to all government specifications for cutting and strength.
- Blades are forged from special analysis tool steel.
- Cutting edges serrated to prevent slipping.
- Self opening action for fast easy feed.
- Each snip is dipped in rust preventive oil.
- Handles are contoured and plastic dipped to provide a firm, comfortable grip.
- Color coded handles for easy identification.

PART NUMBER	COLOR OF HANDLES	CUT PATTERN
113320	Yellow	Straight
113321	Green	Right
113322	Red	Left

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SCRAPING and CUTTING TOOLS

PUTTY KNIVES and SCRAPERS

Used for spackling, scraping, removing grease, paint, varnish, and gaskets.

- Handles do not absorb grease or oils.
- Keeps hands cleaner.
- Blades are riveted to handle for durability.
- Holes in handles for hanging.
- Blades are constructed of high carbon cutlery steel.

BLADE WIDTH (INCHES)	DESCRIPTION		PART NUMBER
1-1/4	Putty Knife	Stiff	213060
1-1/4	Putty Knife	Flexible	213061
3	Scraper	Stiff	213062
3	Scraper	Flexible	213063
6	Taping	Flexible	213064

NOTE: Designs may vary. Subject to availability. We reserve the right to substitute when necessary.

INSPECTION STICKER SCRAPER

- Remove stickers, paint, varnish, and tar from glass.
- E-Z grip vinyl handle.
- Replaceable single edge razor blade.
- 7-3/4" long, complete with one blade.
- Folds in half to lock blade safely inside handle.

Part No. 113113

Replacement blade:
Part No.'s. 11301 or 11304

WINDOW SCRAPER

Part No. 113229

Replacement blade:
Part No.'s. 11301 or 11304

- This small, easy to handle scraper gets into all those tight places other scrapers cannot.
- It removes inspection stickers, excess paint, and more, from any window.
- This versatile tool also snaps open & closed for safety.
- Comes complete with Part No. 11301 razor blade.

RAZOR BLADE SCRAPER

- Designed to reach in tight places.
- Comes with five stainless steel blades for removing stickers from windshields, bumpers, etc.
- Also comes with a plastic blade for use on plastic laminated windshields to prevent scratching.

- Spring-release allows easy interchange of blades.
- Hollow handle stores all blades when not in use.
- Reverse in holder for storage.

Part No. 213652

Replacement blade:
Part No.'s. 11301, 11302 & 11304

HEAVY DUTY SCRAPER

- Sharp hardened steel blades remove carbon, old gasket material adhesives, sludge, and other hard-to-clean substances.
- Loosen handle to interchange blades.
- 1", 1-1/2" & 2" blades included.

Part No. 213279

REPLACEMENT BLADES PART NUMBER	BLADE WIDTH (INCHES)	QTY
213280	1	6
213281	1-1/2	6
213282	2	6

PREMIUM UTILITY BLADES

Part No. 113543
5 per pack

The Only Bi-Metal Utility Blade

- Up to 3x the life of carbon blades.
- Bi-metal patent-pending design.
- Safe, shatter-resistant blade.
- Double-knotched - fits standard utility knives.
- Great for drywall, metal scoring, and all regular uses.
- M-2 hardened tool steel for edge durability.
- Honed edge angle for maximum sharpness.
- Electron beam weld protects against tip strippage.
- Spring steel backing material for shatter resistance.
- .025 thickness.

HEAVY DUTY UTILITY BLADE

- Heat treated carbon steel.

Part No. 113538 50

PLASTIC RAZOR BLADE

- Eliminate scratching of plastic coated windshield.
- Removes stickers & labels without scratching.
- Lightweight, long lasting.

Part No. 11302 24

Use on all plastic coated windshields (used on many G.M. late model cars)

HEAVY DUTY INDUSTRIAL RAZOR BLADES

.009 Gauge Steel
Part No. 11301 100

Extra Heavy Duty For Maximum Strength .012 Gauge Steel
Part No. 11304 100

- Industrial quality.
- Heavy gauge.
- Specially ground sharp, long lasting edge.
- Fits most knives & inspection sticker scrapers available today.
- Packed in dispenser tray.

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CUTTING TOOLS

LENOX® GOLD™ QUICK CHANGE RETRACTABLE UTILITY KNIFE

- Durable construction and comfortable grip for extended use.
- Extremely durable stainless steel nose.
- One piece titanium coated nose eliminates spreading.
- No tools needed to open.
- 3 Lenox shatter-resistant blades included.
- Holds up to 5 blades, inside storage area.

Part No. 113542

Replacement bi-metal utility blades:
Part No. 113543 5

RETRACTABLE UTILITY KNIFE

- Heavy duty construction.
- 2 steel blades included.
- Contour grip.

Part No. 113535

Replacement blades: Part No.'s 113538 & 113543

COMPOUND RATCHET ACTION CUTTER

- Handle molded from G.E. Valox #508 - glass filled for strength.
- Stainless steel replaceable blade.
- All internal parts and pivots are made of stainless steel for long life.
- Completely rust-proof.
- Compounded ratchet action multiplies normal hand pressure and reduces user fatigue.
- Cuts all rubber, plastic hose and PVC pipe up to 1-1/8" (2.8 cm.)
- Provides a straight, even, clean cut.
- Made in the U.S.A.

Part No. 213648

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*SPECIAL ORDER TOOLS & ITEMS INDEX

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Air Compressors & Air Management
Air Control Units
Air Drying Systems
Air Filters
Air Regulators

AIR CONDITIONING EQUIPMENT

Air Conditioning Equipment

AIR TOOLS

Air Drills
Air Hammers
Air Hoses & Reels
Air Polishers
Air Ratchets
Air Reciprocating Saws
Air Sanders
Air Tool Combo Kits
Air Tool Lubricators
Air Tools
Cut Off Tools
Die Grinders
Impact Wrenches
Tire Buffers

BATTERY/ELECTRICAL SYSTEMS

Battery Chargers
Battery/Electrical Systems
Booster Cables
Electric Wire Repair
Electrical Systems Testers
Generators
Power Inverters
Power Packs

BODY SHOP TOOLS & EQUIPMENT

Body Repair Kits
Body Shop Tools & Equipment
Gun Washers
Heat Lamps
Pneumatic Door Skin
Pulling Clamps
Solvent Recyclers
Upholstery & Trim Tools
Work Stands

BRAKE, TIRE & SUSPENSION

Brake Bleeding Equipment
Brake Caliper Tools & Accessories
Brake Flaring Tools
Brake Lathes
Brake Service Kits
Brake Tools
Brake, Tire & Suspension
Clutch & U-Joint Tools
Front End Service Sets
Strut Tools & Spring Compressors
Suspension Tools
Tire Changers & Accessories
Tire Tools
Tubing Bender
Wheel/Axle Tools
Wheel Balancers & Accessories
Wheel Dollies

COOLING SYSTEM EQUIPMENT

Coolant Refractometer
Pressure Testers
Purge & Test Equipment

DEF EQUIPMENT

DEF Equipment

DENT REPAIR TOOLS

Body & Fender Tool Sets

DIAGNOSTIC EQUIPMENT

Borescopes
Calipers
Diagnostic Equipment
Dial Indicator Sets
Emissions Testers
Engine Analyzers
Fuel Injection Tools
Heavy-Duty Diagnostics
Multimeters
Non-contact Thermometers
Scan Tools
Tachometers
Timing Lights
Torque Wrenches

ENGINE TOOLS

ATF Exchanger
Belt Tools
Block Tools
Cam Tools
Engine Tools
Fluid Evacuator
Fuel System Tools
Gas Evacuation Unit
Oil Pump Tools
Transmission Tools
Water Pump Tools

FASTENER & RIVET TOOLS

Fastener Tools
Rivet Accessories
Rivet Guns

GLASS INSTALLATION

Windshield Tools

LIFTING EQUIPMENT

Bottle Jacks
Car Dollies
Clutch Handlers
Engine Cranes
Engine Slings
Engine Stands
Jack Stands
Lifting Equipment
Motorcycle/ATV Lift
Power Pullers - Utility Winch
Service Jacks
Shop Presses
Transmission Jacks
Tripod Stands
Truck Axle Jacks
Truck Ramps
Underhoist Stands
Wheel & Brake Drum Dollies

MASKING SYSTEMS

Masking Equipment

POWER TOOLS

Angle Grinders
Batteries & Power Packs
Bench Grinders
Cordless Ratchets
Cordless Screwdrivers
Dremel
Drill Press
Electronic Die Grinder
Impact Wrenches
Miter Saws
Polishers & Sanders
Power Tool Combo Kits
Power Tools
Saws

PULLERS

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Pilot Bearing Pullers
Pullers
Pulley Pullers
Seal Pullers
Slide Hammer Pullers
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Creepers

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BOLT & NUT EXTRACTORS and SOCKET SETS

3/8" DRIVE TIGHT GRIP ROUNDED BOLT and NUT REMOVER KITS

Grips Rounded Corners on Nuts and Bolts without Slipping.

Firm Grip Captures Bolts or Nuts for Easy Removal!

Remove Rusted or Extremely Rounded Bolts and Bolts!

Holds Bolt or Nut for Easy Installation in Hard-to-Reach Places!

Compact kit fits in small spaces: 5-3/4" L x 4-1/2" W x 1-7/8" D and weighs less than 2lbs

MADE OF HIGH STRENGTH ALLOY STEEL

SIX CAMS GRIP FASTENERS!

SAE SET INCLUDES:

3/8", 7/16" (11mm), 1/2", 9/16", 11/16", 5/8 (16mm), 3/4" (19mm)
Supplied in a hard plastic case

Part No. 113427

METRIC SET INCLUDES:

10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 18mm
Supplied in a hard plastic case

Part No. 113429

BOLT & NUT EXTRACTORS

- When you are faced with a rounded-off, rusted-tight or painted over bolt, bolt extractors will break it free.
- Reverse spiral flutes are designed to bite down to provide maximum gripping power.
- High carbon steel ensures longer life and greater durability.
- Universal lobular design fits all types of fasteners.
- 3/8" square drive for use with hand ratchets, impact wrenches, and air ratchets; hexagonal flats for use with flat wrenches, pliers, adjustable wrenches, sockets or VISE-GRIP locking pliers.

13-pc PROFESSIONAL'S INDUSTRIAL SET - Full Fractional & Metric Coverage

Set includes bolt extractors to remove bolt sizes: 8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 16mm, 17mm, 19mm, 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" in drive size 3/8".
Set includes plastic case.

Part No. 113018

9-pc BOLT EXTRACTOR SET - Full Fractional Coverage

Set includes bolt extractors to remove bolt sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4" in drive size 3/8". These same sizes will also work on the following metric sizes 8mm, 11mm, 14mm, 16mm & 19mm. Set includes plastic case.

Part No. 113019

MULTI-GRIP UNIVERSAL SOCKET

One Socket That Does The Work of Three Whole Sets!

A unique patent-pending, 54-Pin Socket, grabs almost any shape or size nut or bolt. The pins retract inward, leaving the remaining pins to nestle around the object. You can install or remove almost anything that the socket can fit over.

This PROBLEM-SOLVING Tool Features:

- Portable, light-weight socket that fits on any 3/8 ratchet.
- Patent-pending.
- Light-weight, only 4 oz.
- Body made of Alloy Steel, 2-inches in length.
- Maximum depth 0.375-inch.
- Range: 1/4 - 3/4 inch (and 7-19mm) wrench size.

Part No. 213054

Ideal to keep in tool box for use when other sockets are broken or missing!

TORX® MASTER BITS

ALL BITS HAVE UNIVERSAL APPLICATIONS

- Hardened Steel.

T10 T60

Part No. 213400
SET AVAILABLE
T-10 Through T-60

PART NO.	SIZE	DRIVE	APPLICATION
213403	T-20	1/4	Instrument Panel, Ext. and Int. Trim
213404	T-25	1/4	Sunroofs, Ext. Trim
213406	T-30	1/4	Delco Master Cylinder, Fender Screws, Air Boot Module
213321	T-40	3/8	Trans., Calipers, Door Hinges, Ext. Trim, Brake Modulators
213322	T-45	3/8	Disc Brake Calipers, Bumper Bolts, Truck Seats, Trim
213407	T-60	1/2	Late GM Caliper Mounting Bolts

8 PIECE TORX® TAMPER-PROOF BIT SET

Complete Set

Part No. 213328
Contains 1 of each Torx Bit listed in holder case

Seven 1/4" Hex Insert Bits with 1/4" Drive Bit Holder packed in holder case

Unique Hollow Center Fits Tamper Proof Torx Screws

INDIVIDUAL NUMBERS AVAILABLE

PART NUMBER	SIZE
213329	T-10
213330	T-15
213331	T-20
213332	T-25

PART NUMBER	SIZE
213333	T-27
213334	T-30
213335	T-40

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3/8” & 1/2” DRIVE SOCKETS and SETS

SUPER TORX® SET

20% STRONGER THAN ONE-PIECE TORX® BITS

This set includes nine of the most popular Torx® sizes for automotive applications. The six smaller bits are 1/4” drive, and the three larger bits are 3/8” drive. the set includes T-10, T-15, T-20, T-25, T-27,T-30, T-40, T-45 & T-50 in a convenient holder.

Part No. 214009

8 PIECE HEX SOCKET BIT SET 3/8” DRIVE

Part No. 114140

Clip on rail organizer

* Not available individually but included in kit.

PART NUMBER	SIZE
*	1/8
*	9/64
*	5/32
114133	3/16
114134	7/32
114135	1/4
114136	5/16
114137	3/8

MAGNETIC HEX DRIVERS

FITS 1/4” DRILLS OR IMPACT GUNS
1-3/4” LENGTH

PART NUMBER	HEX SIZE (INCHES)
53510	1/4
53511	5/16
53512	3/8

FRACTIONAL SOCKET SET 3/8” DRIVE

Part No. 113405

METRIC 3/8” DRIVE 6 PT. STANDARD SOCKETS

Part No. 113406
w/clip-on rail organizer*

PART NUMBER	SIZE (MM)	PART NUMBER	SIZE (MM)	PART NUMBER	SIZE (MM)
113958*	7	113961*	12	113964*	17
113959*	8	114110*	13	113965*	18
114108*	9	113962*	14	113966*	19
113960*	10	114111*	15	113967	20
114109*	11	113963*	16	113968	22

FRACTIONAL DEEP WELL SOCKET SET 3/8” DRIVE 6 PT.

Part No. 113403

FRACTIONAL SOCKET TRAY SET 1/2” DRIVE

Part No. 113408

PART NUMBER	SIZE (INCHES)	SOCKET (POINT)	PART NUMBER	SIZE (INCHES)	SOCKET (POINT)
113710	7/16	6	113716	7/8	12
113711	1/2	6	114117	15/16	12
113712	9/16	6	113717	1	12
113713	5/8	6	114118	1-1/16	12
113714	11/16	12	113718	1-1/8	12
113715	3/4	12	113719	1-1/4	12
114116	13/16	12	clip-on rail organizer		

FRACTIONAL 1/2” DRIVE 6 PT. IMPACT SOCKETS

Part No. 113410
w/clip-on rail organizer*

PART NUMBER	SIZE (INCHES)	PART NUMBER	SIZE (INCHES)	PART NUMBER	SIZE (INCHES)
113905	3/8	113909*	5/8	113911	7/8
113906	7/16	114119*	11/16	113912	1
113907*	1/2	113910*	3/4	113913	1-1/8
113908*	9/16	114120*	13/16	113914	1-1/4

FRACTIONAL 1/2” DRIVE 6 PT. EXTRA DEEP SOCKETS

PART NUMBER	SIZE (INCHES)	PART NUMBER	SIZE (INCHES)	PART NUMBER	SIZE (INCHES)
113720	1/2	113723	11/16	113726	7/8
113721	9/16	113724	3/4	113727	1
113722	5/8	113725	13/16	113728	1-1/8

FRACTIONAL 1/2” DRIVE 6 PT. DEEP IMPACT SOCKETS

Part No. 114139
w/clip-on rail organizer*

PART NUMBER	SIZE (INCHES)	PART NUMBER	SIZE (INCHES)	PART NUMBER	SIZE (INCHES)
113915*	3/8	113919*	5/8	113921*	7/8
113916*	7/16	114121*	11/16	114123*	15/16
113917*	1/2	113920*	3/4	113922*	1
113918*	9/16	114122*	13/16	113923	1-1/8

METRIC IMPACT SOCKET SET 1/2” DRIVE 6 PT.

Part No. 113411
w/clip-on rail organizer

PART NUMBER	SIZE (MM)	PART NUMBER	SIZE (MM)
114124	11	114127	15
114125	13	114128	17
114126	14	114129	19

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HAND TOOLS and WRENCHES

BLACKHAWK RATCHETS

Triple Chrome Plated

PART NO.	DRIVE	SIZE
113775	1/4" Drive	5" Long
113413	3/8" Drive	7-1/2" Long
113415	1/2" Drive	10" Long
113974	3/4" Drive	20" Long

3/8" DRIVE SPIN A RATCHET

Rapid fingertip spinners to pre-tighten nuts and bolts. Push into socket, spin to tight position, put on ratchet and finish job. Cut labor time in ratcheting work. Available in 3/8" drive only.

Part No. 213226

SPEED WRENCH

PART NO.	DRIVE	SIZE
113650	3/8" Drive	16" Long
113701	1/2" Drive	18" Long

UNIVERSAL JOINTS

PART NO.	DRIVE
213347	1/4" Drive
113679	3/8" Drive
113706	1/2" Drive

DRIVE ADAPTERS

PART NO.	DESCRIPTION
114142	3/8"F to 1/4"M
113681	3/8"F to 1/2"M
113704	1/2"F to 3/8"M
113705	1/2"F to 3/4"M

3/8" DRIVE QUICK RELEASE

Push Button for Release of Sockets

7-1/2" Long

Part No. 113950

FLEX HANDLE

PART NO.	DRIVE	SIZE
113931	1/2" Drive	15" Long

EXTENSIONS

LENGTH	1/4" DRIVE	3/8" DRIVE	1/2" DRIVE
3"	**113776**	**113654**	---
5"	---	---	**113702**
6"	**113777**	**113655**	---
10"	---	---	**113703**
11"	---	**113656**	---

1/4" DRIVE SPINNER HANDLE

Part No. 113778

TIGHT GRIP SUPER COMBINATION WRENCH SETS

- **Removes severely rusted, rounded or damaged bolts and nuts.**
- **Six cams made of high strength alloy steel grab onto the flats of the fasteners.**
- **A great bolt or nuts starter for those hard-to-reach places.**

MADE OF HIGH STRENGTH ALLOY STEEL

6 PIECE SAE STANDARD SET

7/16" (11mm), 1/2", 9/16", 5/8 (16mm), 11/16", 3/4" (19mm)

Part No. 113412

6 PIECE METRIC SET

12mm, 13mm, 14mm, 15mm, 17mm, 18mm

Part No. 113414

25° OFFSET REVERSIBLE RATCHETING BOX WRENCH

Great for getting at hard-to-reach nuts and bolts. Offset heads prevent bruised and scraped knuckles.

INDIVIDUAL SIZES AVAILABLE

PART NUMBER	SIZE (INCHES)
113551	1/4 - 5/16
113553	1/2 - 9/16
113554	5/8 - 11/16
113555	3/4 - 7/8

5 PC 12pt. METRIC SET

Contains 1 each
7mm x 8mm, 9mm x 10mm, 11mm x 12mm, 13mm x 14mm, 15mm x 17mm
Supplied in a handy vinyl pouch.

Part No. 113560

Metric sizes available in sets only. No open stock.

5 PC 12pt. STANDARD SET

Contains 1 each
1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 7/8"
Supplied in a handy vinyl pouch.

Part No. 113550

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WRENCHES

9 pc. COMBINATION WRENCH SET

Supplied in a handy plastic pouch.

Part No. 113416

SET CONTAINS	
1/4”	9/16”
5/16”	5/8”
3/8”	11/16”
7/16”	3/4”
1/2”	

13 pc. COMBINATION WRENCH SET

Supplied in a handy plastic pouch.

Part No. 113417

SET CONTAINS	
5/16”	3/4”
3/8”	13/16”
7/16”	7/8”
1/2”	15/16”
9/16”	1”
5/8”	1-1/16”
11/16”	

3 pc. FLARE NUT WRENCH

- Prevents damage to flare nuts and other soft metal fittings.

INDIVIDUAL SIZES AVAILABLE

PART NUMBER	SIZE (INCHES)
113562	3/8 and 7/16
113563	1/2 and 9/16
113564	5/8 and 11/16

Part No. 113561 - 3 piece set

5 pc. COMBINATION WRENCH SET

- Contains 3/8”, 7/16”, 1/2”, 9/16”, 5/8”.
- Drop forged alloy steel.
- Precision forged for correct fit and prevent slipping.

Part No. 113533

D11

BLACKHAWK COMBINATION WRENCHES

12 PT. FRACTIONAL

PART NO.	SIZE (IN.)	LGTH (IN.)	PART NO.	SIZE (IN.)	LGTH (IN.)
114150	1/4	3-15/16	114157	11/16	8-25/32
114151	5/16	4-3/8	114158	3/4	9-5/8
114152	3/8	5-1/4	114159	13/16	10-9/16
114153	7/16	5-13/16	114160	7/8	11-1/2
114154	1/2	6-1/2	114161	15/16	12-1/2
114155	9/16	7-3/16	114162	1	13-1/2
114156	5/8	8	114163	1-1/16	14-5/8

12 PT. METRIC

PART NO.	SIZE (MM.)	LGTH (IN.)	PART NO.	SIZE MM)	LGTH (IN.)
114209	6mm	3-15/16	114172	17mm	8-25/32
114164	7mm	4-1/4	114173	18mm	9-7/32
114210	8mm	4-1/4	114174	19mm	9-45/64
114165	9mm	4-27/32	114175	20mm	10-1/4
114166	10mm	5-5/32	114176	21mm	10-43/64
114167	11mm	5-5/32	114177	22mm	11-21/32
114168	13mm	6-29/64	114178	23mm	12-1/8
114169	14mm	7-11/64	114179	24mm	12-41/64
114170	15mm	7-37/64	114180	30mm	16-1/4
114171	16mm	8			

7 pc. NUT DRIVER SETS

- Steel hardened sockets.
- High quality plastic handles.
- Triple chrome plated.
- Available in sets or individually.

FRACTIONAL

PART NUMBER	SIZE (INCHES)	PART NUMBER	SIZE (INCHES)
114468	3/16	114472	3/8
114469	1/4	114473	7/16
114470	5/16	114474	1/2
114471	11/32		

METRIC

PART NUMBER	SIZE (MILLIMETER)	PART NUMBER	SIZE (MILLIMETER)
114488	5mm	114492	9mm
114489	6mm	114493	10mm
114490	7mm	114494	11mm
114491	8mm		

FRACTIONAL	METRIC
Part No. 113499	Part No. 113534
5, 6, 7, 8, 9, 10 & 11mm	3/16”, 1/4”, 5/16”, 11/32”, 3/8”, 7/16”, 1/2”

INTERNAL PIPE WRENCH’S

3 piece set

Part No. 813150

- Sizes: 3/8, 1/2 & 3/4
- Packed in plastic pouch

- Ideal to remove broken threaded pipe fittings.
- Loosen or tighten close nipples or other pipe fittings.
- Works in tight spots where an ordinary wrench is useless.
- Eliminate the possibility of damage to threads, walls and highly polished nickel or chrome plate finish.
- Overall length 3-3/4”.
- Exclusive “cam action” provides non-slipping grip on the inside of nipples, pipes and fittings. Inserted inside, the knurled eccentric engages the inside wall and can be turned either way.
- Hex body for use with a wrench.
- Heat treated alloy steel, zinc plated to prevent rust.

PART NUMBER	PIPE SIZE (Inches)
813151	3/8
813152	1/2
813153	3/4
813154	1

HEAVY DUTY PIPE WRENCHES

PART NUMBER	SIZE (Inches)
213683	6
213685	10
213687	18
213688	24

- Professional quality.
- Forged alloy steel hook jaw.
- Precision hardened jaw teeth.
- Dual suspension jaw clamp springs.
- Forged and heat treated fixed jaw.
- Accurate adjusting nut.
- Conforms to Federal specifications No. GGG651, Type II, Class A.

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WRENCHES and HEX KEYS

ADJUSTABLE WRENCHES

- **Precision ground jaws and slide for positive, safe grip and smooth action.**
- **Requires less working space.**
- **Increased strength and torque load.**
- **More comfortable grip.**
- **Triple chrome plating for long lasting adherence and corrosion prevention.**
- **Knurl and removable screw - pin hardened and tempered.**
- **Each tool individually tested and inspected.**
- **Superior quality exceeds federal specifications No. GGG-W-631 B.**
- **Available in 6" and 10" sizes.**

PART NUMBER	SIZE (Inches)
113475	6
113476	10

BONDHUS® BALLDRIVER HEX KEYS

Why a BallDriver® Hex Tool?
Angle entry to 25°

- **Works in hard to reach areas.**
- **Faster insertion and removal.**
- **Close tolerances mean consistent performance at operational angles.**

***All sets supplied with key cases - Just twist to lock in place, no more lost keys. Cases have individually marked sizes.**

Fast funnel entry

- **Eliminates wasted time even in blind applications.**
- **Full depth engagement.**
- **Reduces "stripping" problems.**
- **Thicker neck area increases torque capacity up to 100%.**

Ergonomic design

- **Allows natural hand and wrist rotation.**
- **Turns full 360° in location.**
- **Reduces user fatigue.**

Part No. 213620*
Fractional: 13 pcs.
Sizes: .050 thru 3/8"

Part No. 213622*
Metric: 9 pcs.
Sizes: 1.5 mm thru 10 mm

Part No. 213621*
Fractional: 7 pcs.
Sizes: 5/64" thru 3/16"

T-HANDLE HEX KEYS

INDIVIDUAL INCH SIZES

PART NUMBER	HEX WIDTH ACROSS FLATS	HANDLE WIDTH	FITS SOCKET SET SCREW	FITS SOCKET CAP SCREW
113239	3/32	3	No. 10	No. 4 & 5
113240	7/64	3	--	No. 6
113241	1/8	3	1/4	--
113242	9/64	3	--	No. 8
113243	5/32	3	5/16	No. 10
113244	3/16	4	3/8	1/4
113245	7/32	4	7/16	--
113246	1/4	4	1/2	5/16
113247	5/16	6	5/8	3/8
113248	3/8	6	3/4	7/16 & 1/2

- **Easy & efficient to use.**
- **Finest quality chrome-nickel based alloy steel.**

Part No. 113254
Standard inch size set w/plastic pouch.
Sizes 3/32" to 1/4". 8 sizes

Part No. 113255
Standard inch size set w/stand & size chart.
Sizes 3/32" to 3/8". 10 sizes

FRACTIONAL and METRIC HEX KEY WRENCHES

FRACTIONAL HEX KEYS

NOMINAL KEY SIZE (INCHES)	SHORT ARM PART NUMBER	LONG ARM PART NUMBER	SOCKET HEAD CAP SCREWS	FLAT HEAD CAP SCREWS	BUTTON HEAD SCREWS	SET SCREWS	SHOULDER SCREWS	PRESSURE PLUGS	LOW HEAD
1/16	**113805**	**---**	1	3, 4	3, 4	5, 6	--	--	5, 6
1/8	**113809**	**113829**	--	10	10	1/4	1/4	--	1/4
5/32	**113811**	**113831**	10	1/4	1/4	5/16	5/16	1/16	5/16
3/16	**---**	**113832**	1/4	5/16	5/16	3/8	3/8	1/8	3/8
7/32	**---**	**113833**	--	3/8	3/8	7/16	--	--	7/16
1/4	**113814**	**113834**	5/16	7/16	--	1/2	1/2	1/4	1/2
5/16	**---**	**113835**	3/8	1/2	1/2	5/8	5/8	3/8	5/8
3/8	**---**	**113836**	7/16, 1/2	5/8	5/8	3/4	3/4	1/2	--
7/16	**113817**	**113837**	--	--	--	--	--	--	
1/2	**113818**	**---**	5/8	3/4	--	7/8	1	--	--
9/16	**113819**	**---**	--	7/8	--	1, 1-1/8	--	3/4	--
5/8	**113820**	**---**	3/4	--	1-1/4, 1-3/8	1-1/4	1	--	--
3/4	**113821**	**---**	7/8, 1	1-1/8	--	1-1/2	--	1-1/4	--

ANSI B18.3-1982 HEAT TREATED ALLOY STEEL

METRIC HEX KEYS

NOMINAL KEY SIZE (mm)	SHORT ARM PART NUMBER	SOCKET HEAD CAP SCREWS	FLAT HEAD CAP SCREWS	BUTTON HEAD SCREWS	SET SCREWS	SHOULDER SCREWS
2	**113852**	2.5mm 2.6mm	3mm	3mm	4mm	--
3	**113854**	4mm	5mm	5mm	6mm	--
4	**113855**	5mm	6mm	6mm	8mm	4mm

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HEX KEYS and PLIERS

HEX KEYS and SETS

18 piece Hex Key Set

Part No. 11341

- Nickel plated tool steel.
- Packaged in a handy plastic carrying case.

Extra long shanks:
1/16, 5/64, 3/32, 7/64, 1/8, 5/32, 3/16, 1/4, 5/16
Standard shanks:
.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 7/32

7 piece Metric Hex Key Set

Part No. 11342

- Made of black alloy steel.
- Packaged in a handy plastic carrying case.
- Sizes: 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm.

TORX® Hex Key Sets

9 piece set - Part No. 113237

- Sizes: T-10 thru T-50

Tamperproof Hex Keys

Used with tamperproof socket head screws.

- Heat treated alloy steel.
- Pin holes in each end.

HEX KEY SIZE TABLE

DIA.	PART NUMBER	SOCKET	FLAT	BUTTON
1/8	**213718**	--	10-24,10-32	10-24,10-32
5/32	**213720**	10-24,10-32	1/4-20	1/4-20
7/32	**213722**	--	3/8-16	3/8-16
1/4	**213723**	5/16-18	--	--
5/16	**213724**	3/8-16	--	--

D11

FOLD-UP POCKET SIZE HEX KEY SETS

- Each blade can be used straight out or at right angles for extra leverage.
- Close tolerances insure precise fit into hex socket.

Inch Sizes

5 piece set - Part No. 113258

- Sizes: 3/16 to 3/8
- Key lengths: 3-3/8 to 5

9 piece set - Part No. 113257

- Sizes: .050, 1/16 to 3/16
- Key lengths: 1-3/4 to 2-7/8

Metric Sizes

5 piece set - Part No. 113260

- Sizes: 4mm, 5mm, 6mm, 8mm, 10mm
- Key lengths: 3-1/2" to 5"

7 piece set - Part No. 113259

- Sizes: 1.5mm to 6mm
- Key lengths: 1-3/4 to 3-1/4

CHANNELLOCK® PLIERS

Used for gripping and turning objects of various shapes, including pipes, rods, hose and cable connections, and many other mechanical devices.

- Pliers have plastic grip handles for extra hand comfort and improved appearance.
- Professional Quality.
- Precision made for greater accuracy.
- Hardened steel for extra strength and long life.

TONGUE and GROOVE PLIERS

PARROT NOSE "NUT BUSTERS"

- Right angle teeth grip for maximum bite and minimum wear.
- SAFE-T-STOP™ expanded reinforcing rib/jaw design prevents handles from touching, eliminates pinched fingers.
- Incredible strength yet lightweight.

LENGTH INCHES	PART NUMBER	JAW CAPACITY INCHES
7	**811307**	1/4 - 5/8
9-1/2	**811410**	1-1/8
14	**811414**	2

SOLID JOINT PLIERS

LENGTH	PART NUMBER	TYPE	FIGURE
6	**813208**	Long Nose w/cutter	A
7-1/2	**813213**	Long Nose w/cutter	B
7	**813209**	Diagonal Cutter	C
8	**813215**	Diagonal Cutter w/Lap Joint	D

TONGUE and GROOVE PLIERS

- Special jaw design accommodates many shapes.
- Offset head for greater leverage.

LENGTH	PART NUMBER	MAXIMUM JAW OPENING	NUMBER of JAW POSITIONS	FIGURE
6-1/2	**813225**	1-1/16	5	B
9-1/2	**813226**	1-1/4	5	B
9-1/2	**813206**	1-1/2	5	A
10	**813207**	2	7	A
12	**813227**	2-1/4	6	B
12	**813212**	2-1/4	7	A
16	**813211**	4-1/4	8	A

SLIP JOINT PLIERS *with Side Cutter*

LENGTH	PART NUMBER	MAXIMUM JAW OPENING
7	**813214**	1-1/4

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PLIERS

COBRA PLIERS

The Most Versatile Pliers Available With Unlimited Applications

The self-gripping jaws produce an iron grip. There is no slip off during use

Pipe grip and spanner in one. For all different kinds of jobs.

Fine adjustments, by just pushing the button.

The self-gripping jaws produce a powerful and safe grip, eliminating the danger of slip-off during use.

Effortless push button release by thumb pressing instead of cumbersome handle locking.

Special safety stop prevents hands from pinching. Eliminates nut burring and knuckle busting. An active contribution for your safety.

The 11 position box joint allows an accurate, almost infinitely variable adjustment of the jaw opening.

Drop forged and oil-hardened from selected Chrome Vanadium steel

From top to toe the COBRA™ is wear resistant. secure against fracture, extremely tough, and withstands the strongest of loads.

PVC coated handles for operator comfort.

Part No. 113518 7” length	**Part No. 113522** 12” length	**Part No. 113500** **4PC. COBRA PLIER SET** 7”, 10”, 12” & 16” sizes
Part No. 113519 10” length	**Part No. 113520** 16” length	**Part No. 113515** 22” length

Extra thin jaws for easy access to tight work areas.

Operates with one handed, downward pressure without squeezing.

Unique design features let this tool replace the need for numerous traditional tools.

Patented jaw design insures grip on round, square and hexagonal pieces.

RETAINING RING PLIERS

- **Each plier converts from internal to external by reversing handles.**
- **Carbon steel with black oxide finish.**
- **Available in straight and 90° styles.**

PART NUMBER	STYLE
52802	Straight Tip
52803	90° Tip

INTERNAL / EXTERNAL

DIAGONAL CUTTING PLIERS

- **6-1/2” long.**
- **Standard bevel cutting edges.**
- **Tapered nose.**
- **Cushion grips.**

Part No. 113529

LONG NOSE PLIERS

- **6-1/2” long.**
- **Chrome alloy steel.**
- **Drop forged.**
- **Insulated cushion grips.**

Part No. 113528

GROOVE JOINT PLIERS

- **10” long.**
- **Drop forged alloy steel.**
- **Jaws lock into place.**
- **No slippage under heavy pressure.**

Part No. 113536

LINESMAN PLIERS

- **High leverage design for E-Z cutting.**
- **Large knurled jaws for better gripping.**
- **Insulated cushion grips.**
- **Drop forged alloy steel.**

Part No. 113530

SLIP JOINT PLIERS

- **6” and 8” long.**
- **Cushioned handles.**
- **Wide jaw capacity.**
- **Drop forged alloy steel.**

PART NUMBER	LENGTH (INCHES)
113531	6
113532	8

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PLIERS and CLAMPS

VISE-GRIP® STRAIGHT JAWS

without Wire Cutters!

PART NUMBER	LENGTH	JAW THICKNESS	JAW ADJUSTMENT	REPLACEMENT SPRINGS
113380	10”	5/8”	1-1/2”	113396
113381	7”	7/16”	1-1/8”	113397

VISE-GRIP® LONG NOSE – LOCKING

with Wire Cutters!

PART NUMBER	LENGTH	JAW THICK AT TIPS	JAW THICK AT BASE	JAW ADJUST AT TIPS	JAW ADJUST AT BASE	JAW LENGTH	REPLACEMENT SPRINGS
113385	9”	3/16”	13/32”	3”	1-3/4”	2-1/2”	113397
113386	6”	1/8”	5/16”	2-1/4”	1”	1-3/4”	113398
113395	4”	1/8”	1/4”	1-3/4”	3/4”	1-1/2”	---

VISE-GRIP® CURVED JAWS – LOCKING

with Wire Cutters!

PART NUMBER	LGTH	JAW THICK	JAW ADJST	REPLMNT SPRINGS
113382	10”	3/8”	1-7/8”	113396
113383	7”	5/16”	1-5/8”	113397

PART NUMBER	LGTH	JAW THICK	JAW ADJST	REPLMNT SPRINGS
113384	5”	1/4”	1-1/4”	113398
113394	4”	1/4”	15/16”	---

VISE-GRIP® LOCKING “C” CLAMP

Long Reach “C” Clamp
Length 18”
Jaw adjustment 7”

with Swivel Pads

Replacement Springs Available
Part No. 113399

Part No. 113389

VISE-GRIP® LOCKING “C” CLAMP

Regular “C” Clamp
Length 11”
Jaw adjustment 3-3/4”

with Swivel Pads

Replacement Springs Available
Part No. 113396

Part No. 113390

VISE-GRIP® LOCKING “C” CLAMP

Mini “C” Clamp
Length 6”
Jaw adjustment 2”

with Swivel Pads

Replacement Springs Available
Part No. 113398

Part No. 113391

VISE-GRIP® PINCH-OFFS – LOCKING

- Special designed for refrigeration industry.
- Pinch-off & lock copper tubing instantly.
- Ideal for emergencies — no shut off valves needed.

Length: 7”
Throat Depth: 1”
Jaw Thickness: 1/4”

Replacement Springs AvailablePart No. 113397

Part No. 113393

VISE-GRIP® CHAIN CLAMP

Part No. 113392

Tool Length: 9”
Chain Length: 19”

Replacement Springs Available
Part No. 113396

MEYERPLIER

THE ANYWHERE Combo Vice/Clamp

- Goes anywhere, clamps to almost anything.
- Securely clamps objects while leaving both hands free to work.
- Use for sawing, drilling, filing, soldering, welding, painting, gluing, sanding, bending and much more.
- A compact, high quality tool, the MEYERPLIER is also a locking plier, a c-clamp and a wire cutter.

Part No. 213617
10” length

DEEP THROAT CLAMPS

Designed for clamping applications where an extra deep throat is required. High tensile ductile iron castings liberally proportioned for the greatest strength. Steel screws and swivels with sliding crosspin handles. Natural finish.

PART NUMBER	OPEN SIZE (INCHES)	DEPTH (INCHES)
814110	1	3
814111	2	3-1/2
814112	3	4-1/2

All sizes available in a combination kit
Part No. 814109

E-Z SET & FORGET

Self Adjusting Pliers - lock on any size without adjusting.

- Simple one-handed use.
- Meets or exceeds ANSI & ASME, standard for material, hardness,strength & performance.

PART	SIZE (INCHES)	DESCIPTION
113581	6	Curved Jaw
113577	7	Needle Nose
113580	10	Curved Jaw
113585	Set	Includes all three sizes

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CLAMPS and SCREWDRIVERS

*The world's smallest locking tool...*SURE GRIP LOCKING TOOL

- Adjustable toggle joint clamp guarantees the highest clamp force.
- Compact design 3-1/2'' long, weighs 2-1/2 ounces.
- Works in extremely small spaces.
- Made of heat treated aircraft aluminum alloy.
- One handed operation. Just adjust, clamp & release.
- Resistant against welding splashes.

Fits in the palm of your hand

Handy, Practical & Universally Usable!

Part No. **213352**

25 PIECE RATCHETING SCREWDRIVER SET

- 5 screwdriver bits (slotted & phillips).
- 5 torx bits (T10-T30).
- 7 metric sockets (6mm-12mm).
- 7 inch sockets (3/16'' - 1/2'').
- 3 position ratcheting screwdriver.
- US made/Blackhawk Quality

Part No. **213133**

15-in-ONE RATCHET SCREWDRIVER

- 3 position ratcheting choose forward, reverse, or stationery.
- Industrial strength heat treated S-2 steel bits for maximum durability and longer life.
- Patented ball bearing on each double ended bit locks on tight to keep bits secure.
- A slight turn of the spring loaded bit selector knob opens the chamber for easy access & storage.

Includes Sizes:
1/8", 1/4", 3/16", 5/32", PH0, PH1, PH2, PH3, S1, S2, T-15, T-20, plus spare 1/4" & PH2

Part No. **213340**

BLACKHAWK SCREWDRIVER SET

- Heavy duty rubber coated ergonomic comfort grip handles.
- Made in USA.
- Top quality steel plated shanks.
- 7 popular sizes in a plastic molded case.

Contains:

1-1/2" phillips	4'' no. 2 phillips
1-5/8" slotted	6'' mechanics slotted
3'' phillips	8'' slotted
4'' slotted	

Part No. **213004**

6 PIECE SLOTTED TIP SET

1/8" x 2"	5/16" x 6"
3/16" x 6"	3/8" x 8"
1/4" x 1-1/2"	
1/4" x 4"	

Part No. **213003**

4 PIECE PHILLIPS TIP SET

3/16" x 4"	1/4" x 4"
1/4" x 1-1/2"	5/16" x 7"

Part No. **213002**

INSULATED SCREWDRIVER

Responds to OSHA's "Safety Related Work Practices" For employee's who work near exposed energized conductors or circuit parts.

- Blade is CVM tool steel, salt bath hardened to an average 58RC.
- Provides protection against electrical shock.
- Insulation molded directly onto blade for permanent bonding.
- Ergonomic power handle grip, impact resistant, made of cellulose-acetate.
- Certified for up to 1000 volts AC, and up to 1,500 volts DC.

INDIVIDUALLY TESTED TO 10,000 VOLTS

TIP WIDTH x BLADE LENGTH	SLOTTED TIP PART NUMBER	PHILLIPS TIP PART NUMBER
9/64 x 4	**214202**	---
3/16 x 5	**214203**	---
5/16 x 7	**214206**	---
#2 x 4	---	**214209**

4 PIECE SET
Part No. **214200**
Contains: 9/64 x 4, 3/16 x 5, #1 and #2 Slotted & Phillips

SPECIFICATIONS:
Meets: DIN 7437, Draft 11/90, VDE New 0680/part 201, IEC 900, 100 volt spec. "GS" mark for individual test.

10 PIECE DURA DRIVER SET

- Ergonomic, high efficiency, high torque handle.
- Cushioned rubber for comfort & slippage control.
- Tool steel shafts for strength & durability.
- Brightly zinc plated blade to prevent corrosion.
- General purpose set - carded.

Contains:

#1 x 4" phillips	3/16 x 6" electricians round
#2 x 4" phillips	1/4 x 1-1/4" mechanics stubby
1/4 x 4" mechanics round	#2 x 1-1/4" phillips stubby
1/4 x 6" mechanics round	#0 x 2" phillips pocket clip
3/16 x 3" electricians round	1/8 x 2" instrument pocket clip

Part No. **213129**

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SCREWDRIVERS and SCREWDRIVER BITS

INSULATED MULTI-BIT SCREWDRIVER

Part No. 214211

- Contains 6 bits: 3 phillips plus 3 slotted.
- 1/4" magnetic bit holder - holds bits and screws.
- Bits conveniently store in handle with snap and lock cap.
- Provides protection against electrical shock, as long as bit remains in screwdriver.
- Insulation molded directly onto blade for permanent bonding.
- Ergonomic power handle grip, impact resistant, made of cellulose-acetate.
- Not rated by VDE, DIN, IEC, or GS.
- Clear selector prevents bit losses.

MAGNETIZER/DEMAGNETIZER

Ideal for magnetizing tools and small parts instantly.

- Magnetize your own tools and parts on the job.
- Powerful permanent magnet for extended life.
- Shatterproof box is made from durable ABS plastics.
- Fits ideally into any tool box only 2" x 2" x 1".
- Simply lead tool or part through the lower square opening marked (+) For magnetizing and upper opening marked. (–) For demagnetizing.

Part No. 213697

SCREWGRAB™

Helps remove or tighten screws, nuts and cap screws.

- Increases grip between screwdriver and screw by 400%.
- No special tools needed.
- Especially designed for partially stripped heads.
- Positive grip between metal surfaces with just one drop. Allows screw to turn freely.
- Eliminates tool wear.
- Perfect solution to a hair-tearing,knuckle-busting problem.
- Works instantly, will not damage surfaces, wipes clean.
- Odorless, non-toxic, and non-corrosive.

Part No. 211105 (12)
.5 fl. oz.

PRECISION SCREWDRIVERS

Electronics service and assembly, medical and industrial maintenance and automotive.

- Precision tolerance black oxide tips.
- Long life chrome-vanadium-molybdenum tool steel blades.
- Comfortable tapered handles molded to blades.
- Precise turning and control with finger tip rotation cup.

7 PIECE COMBINATION SET

Part No. 214003

Contains: 1/16 x 1-9/16, 5/64 x 2, 3/32 x 2, 1/8 x 2-3/8 Slotted and #00 x 1-5/8, #0 x 2, #1 x 2-3/8 Phillips.

PHILLIPS INSERT BITS

Part No. 114305 - 1/4"
Hex Shank Bit set:
1 ea. of No. 0, 1, 2 & 3 bits

PART NUMBER	POINT SIZE	OVERALL LENGTH (IN.)
114306	0	1
114307	1	1
114308	2	1
114309	3	1

Part No. 114310 - 5/16"
Hex Shank Bit set:
1 ea. No. 1, 2, 3 & 4 bits

PART NUMBER	POINT SIZE	OVERALL LENGTH (IN.)
114311	1	1-1/4
114312	2	1-1/4
114313	3	1-1/4
114314	4	1-1/4

SQUARE RECESS

Part No. 114335 - 1/4"
Hex Shank Bit set:
1 ea. of No. 1, 2 & 3 bits

PART NUMBER	POINT SIZE	OVERALL LENGTH (IN.)
114336	1	1
114337	2	1
114338	3	1

1/4" HEX SHANK INSERT BIT HOLDER

Part No. 114353

- 7/16" body.
- 3" long.

PHILLIPS POWER BITS

Part No. 114315 - 1/4"
Hex Shank Bit set:
1 ea. of No. 1, 2 & 3 bits

PART NUMBER	POINT SIZE	OVERALL LENGTH (IN.)	BODY DIAMETER (IN.)
114316	1	1-15/16	3/16
114317	2	1-15/16	1/4
114318	3	1-15/16	9/32

BIT HOLDERS

Part Number
114352
Fits 5/16" Hex
3/8" Drive

Part Number
114351
Fits 1/4" Hex
1/4" Drive

SLOTTED INSERT BITS

Part No. 114319 - 1/4"
Hex Shank Bit set:
1 ea. of No. 4, 5, 6 & 8 bits

PART NUMBER	SCREW SIZE	BLADE WIDTH (IN.)	OVERALL LENGTH (IN.)
114320	4	3/16	1
114321	5	7/32	1
114322	6	1/4	1
114323	8	9/32	1

Part No. 114324 - 5/16"
Hex Shank Bit set:
1 ea. No. 8-10, 12-14, 14-16 & 16-18 bits

PART NUMBER	SCREW SIZE	BLADE WIDTH (IN.)	OVERALL LENGTH (IN.)
114325	8-10	1/4	1-1/4
114326	10-12	9/32	1-1/4
114327	14-16	5/16	1-1/4
114328	16-18	1/2	1-1/4

MAGNETIC HEX DRIVERS

- 1/4" hex drive for hex head screws & machine nuts.
- 1-3/4" length.

PART NUMBER	HEX HEAD SIZE
53510	1/4
53511	5/16
53512	3/8

SLOTTED POWER BITS

Part No. 114329 - 1/4"
Hex Shank Bit set:
1 ea. of No. 6-8, 8-10 & 10-12 bits

PART NUMBER	SCREW SIZE	BLADE WIDTH (IN.)	OVERALL LENGTH (IN.)
114330	6-8	1/4	1-15/16
114331	8-10	9/32	1-15/16
114332	10-12	5/16	1-15/16

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SCREWDRIVER BITS, HAMMERS, CHISELS and PUNCHES

TORX BITS

PART NUMBER	TORX SIZE	OVERALL LENGTH (IN.)
114340	T-10	1
114341	T-15	1
114342	T-20	1
114343	T-25	1
113189	T-27	1
113190	T-30	1
113191	T-40	1

Part No. 114339 - 1/4"
Hex Shank Bit set:
1 ea. of No. T-10, T-15, T-20, T-25, T-30 & T40

PART NUMBER	TORX SIZE	OVERALL LENGTH (IN.)
114347	T-30	1-1/4
114348	T-40	1-1/4
114349	T-45	1-1/4
114350	T-50	1-1/4

Part No. 114346 - 5/16"
Hex Shank Bit set:
1 ea. of No. T-30, T-40, T-45 & T-50

SOFT FACE HAMMERS and REPLACEMENT TIPS

- Replaceable tips, hard & soft - No need to replace complete hammer - saves money.
- Forged steel head - For strength and long life.
- Hickory handle for durability.
- Tips color coded: Hard - Yellow, Soft - Red.

PART NUMBER	HEAD WEIGHT	OVERALL LENGTH	REPLACEMENT TIPS	HEAD DIA.
813736	12 oz.	12-1/2	813739 hard	1-1/2
			813740 soft	1-1/2

RUBBER MALLETS

PART NUMBER	HANDLE TYPE	MALLET COLOR	LBS. RATED
113525	Wooden	Black	2

DEAD BLOW HAMMER

Sheet metal shops, repair shops, machine tools and gear box construction, tire shops

Part No. 813748

Replaceable tips

- Recoilless - will not bounce.
- Lead shot filled head - increases striking power by 30%.
- Polyurethane yellow tips - preserves sensitive surfaces and edges, shatterproof.
- Reduces hand fatigue.
- Steel tube shaft with a rubber hand grip for added comfort.
- Hammer weight: 26 oz.
- Handle: 12" long
- Head approx.1-5/8" x 4-7/8".

PUNCH and CHISEL HOLDER

Part No. 213479

This tool works with any our punch and chisel and is a safer way to use a punch and chisel. Now you may reduce the risk of injury to your hand from a direct hit on a glancing blow of a hammer. The punch and chisel holder will hold tools up to 1" in diameter. The shaft has a nylon tip to absorb impact shock and the handle is sturdy, fluted plastic.

COLD CHISELS

- Forged alloy steel.
- Black lacquer finish.
- Heads & bits fully polished.

3/4" 5/8" 1/2" 3/8" 5/16" 1/4"

PART NUMBER	DIAMETER STEEL	LENGTH
113360	1/4	5
113361	5/16	5
113362	3/8	5-1/2

PART NUMBER	DIAMETER STEEL	LENGTH
113363	1/2	6
113364	5/8	6-1/2
113365	3/4	7

BALL PEIN HAMMERS

- Compression wedged hickory handle for added safety.
- High quality forged steel - For strength & long life.

PART NUMBER	HEAD WEIGHT	OVERALL LENGTH
813741	4 oz.	10-1/4
813743	12 oz.	12-3/4
813744	16 oz.	13-3/4

PART NUMBER	HEAD WEIGHT	OVERALL LENGTH
813745	20 oz.	15
813746	24 oz.	15-1/4
813747	32 oz.	15-3/4

CLAW HAMMER

- 13" overall length.
- 16 oz.
- Drop forged.
- Hardwood handle.

Part No. 113527

CROW (PRY) BARS

- Forged high carbon steel.
- Rust resistant blue finish.
- Hardened and tempered.
- Removes nails, prys, wrecks and lifts.

HOLD-DOWN CLIP

PART NUMBER	BAR SIZE INCHES	LENGTH INCHES
213725	5/8 - Hex	18
213726	3/4 - Hex	24
213728	3/4 - Hex	36

- For securing to floor or wall.

Part No. 213729 (10)

PIN PUNCHES

- Forged high grade steel.
- Hardened & tempered.
- Black lacquer finish.

PART NUMBER	POINT	DIA. STEEL	LENGTH
113368	1/8	5/16	6
113369	3/16	3/8	6

PART NUMBER	POINT	DIA. STEEL	LENGTH
113370	3/16	1/2	6
113371	1/4	1/2	6

CENTER PUNCHES

- Forged high grade steel.
- Black lacquer finish.
- Polished heads & tempered.

NOTE: Always use safety goggles when using any chisel or punch.

PART NUMBER	DIAMETER STEEL	LENGTH
113375	1/4	3-1/2
113376	3/8	5

PART NUMBER	DIAMETER STEEL	LENGTH
113377	1/2	6

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PUNCHES, RULERS and GAUGES

PILOT PUNCHES (For removal of roll or spring pins)

Part No. 113582
Contains one each:
1/8" - 5/32",
3/16" - 7/32",
1/4" - 5/16"

- Speed up pin removal, safely.
- Center perfectly over pin.
- Eliminate damage to pin or wall of hole.
- Drive pin completely through hole without sticking.

PART NUMBER	SIZE	MM
113570	1/16	1.5
113572	3/32	2.5

Each punch has a pilot point that fits into the hollow center of the pin, holding the driving shoulder of the punch in the perfect contact position during the entire removal operation.

LUFKIN® POWER RETURN TAPES

- 1" x 25'.
- Hi-Viz® orange case finish.
- Slide lock for easy blade locking at any length.
- Patented Quad Hook extends life by reducing blade breakage.

Part No. 113263

- 1/2" x 10' (13mm to 3mm).
- Hi-Viz® orange case finish.
- Cushion blade return.
- Fractional & metric.
- Bright yellow blade has clear easy-to-read numbers.

Part No. 113317

POCKET CALIPER

- Stainless steel.
- Measures inside or outside in both inches or millimeters.
- 3" rule in 64ths.
- Protective case.

Part No. 113166

POCKET RULE

- Stainless steel.
- Metric and inch etchings on face.
- Protective case.
- Slide clip can be used as depth gauge.
- Decimal equivalents on back.

Part No. 113164

METRIC BOLT & NUT GAUGE

- Shows thread pitches available.
- Gauges the 7 most used sizes.
- Measures bolts and nuts instantly.
- Shows diameter & length.
- Accurate to .002mm.

Part No. 113163

STANDARD THREAD GAUGE

- Measures threads from 4-40 through 42.
- 30 blades.

Part No. 113168

INCH NUT & BOLT GAUGE

- Measures diameter & length.
- Measures both USS and SAE nuts.
- Measures even countersunk heads.
- Accurate to .005".

Part No. 113162

METRIC THREAD PITCH GAUGE

- Measures threads from .40 through 7.0.
- 20 blades.

Part No. 113169

PLASTIC BIG BOLT & NUT GAUGE

- Measures both metric and inches from 20mm to 50mm and 3/4" to 2".
- Used for bolts, nuts, washers, rod, pipe, and studs.

Part No. 113171

PLASTIC SCREW & WIRE GAUGE

- Measures both metric and inches.

Part No. 113173

PLASTIC INCH & METRIC BOLT GAUGE

- Measures from 6mm to 22mm and #6 to 1" bolts, screws, drain plugs, and nuts #8 to 5/8.

Part No. 113172

FRACTIONAL DRILL GAUGE

- Measures drill size.
- Constructed of prime steel and plated.
- 1/16" to 1/2" by 64ths.
- 3" wide x 6" long.

Part No. 213668

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WIRE CRIMPERS, STRIPPERS, CABLE CRIMPERS and CUTTERS

WIRE STRIPPER

Wire Stripper
Unique steel jaws self-adjust automatically. Simply insert wire 10 thru 26 gauge, apply light pressure, wire is stripped. Gripping jaws hold wire while stripping insulation.

Wire Cutter
Precision machined blades cut wire easily & smoothly.

Handles
Insulated plastic for safety and reduction of hand fatigue.

Crimper
Crimps terminals 22 thru 10 gauge neatly & tightly.

- Completely automatic.
- Effortlessly strips all 10 thru 26 gauge wire with no time consuming adjustments.
- Combination wire stripper, crimper and wire cutter. Buy one tool instead of three !!

There is no tool that strips wire faster !!

WIRE STRIPPER
Part No. 213375

HEAVY DUTY CRIMPING TOOL

- Crimps 22 thru 6 gauge terminals.
- Strips 22 thru 10 gauge wire.
- Screw cutters for sizes 4 - 40 thru 10 - 32.
- Crimps non-insulated flag terminals.
- Cushioned grips.
- 3M Brand, TH-450.

Part No. 11384

ECONOMY CRIMPING TOOL

- 3-in-1 tool - cuts, strips, crimps wires from 22 - 10 AWG.
- Crimps insulated and non-insulated solderless terminals and ignition terminals.
- Made from quality hardened steel with a black phosphate finish.
- High voltage insulated handle won't crack, slip off or break.

Part No. 11386

PROFESSIONAL CRIMPING TOOL

- Requires less effort. Crimping nests located behind pivot point for better leverage.
- Wire cutter and stripper located on front for better access in tight working areas.
- Crimps 7 and 8mm ignition terminals.
- Cuts and strips wire from 22 to 10 AWG.
- Cuts 6 sizes of bolts from 4 - 40 to 10 - 32.
- Jumbo cushioned grip handles for comfort.

Part No. 11363

ROTARY CABLE STRIPPER

- Adjustable for cable sizes 8 ga. up to 4/0 ga.
- Heavy duty design - long lasting and safer to use.
- Precise depth control strips clean - will not nick or weaken conductors.

Rotate tool around cable.

Raise cable guide Place cable inside.

Remove insulation.

Part No. 213249

HEAVY DUTY CABLE CUTTERS

- Cuts cable up to 4/0.
- Machined blade surface eliminates binding.
- Fiberglass handles make tool lightweight yet sturdy.
- Molybdenum steel cutting blades prevent blade breakage and stay sharp.
- Not for use on steel.

Part No. 322182

COMPACT CABLE CUTTERS

- Cuts battery or welding cable up to 4/0.
- Made of high quality 1/4" case hardened steel.
- Sharp, heat treated, high carbon cutting edges.
- Not for use on steel.

Part No. 322183

HEAVY DUTY CRIMPING TOOL

- Crimp terminals from 4 ga. (6ga. flared) through 4/0 ga.
- Rotating dies to match application. No separate dies to change.
- Over 1,000 lbs. of crimping pressure.
- Die codes appear on the tool. Matches crimping system die codes, size and polarity.
- 25" overall length.

UNIVERSAL
Part No. 322180

HAMMER CRIMPER

- Crimps lugs, splices and battery terminals sizes 8 gauge thru 4/0.
- V-shape nest design prevents over-crimping.
- Crimping scale included on side of tool assures proper crimp.
- Hammer ram down for perfect crimp.

Part No. 322181

CABLE TIE REMOVER/WIRE STRIPPER

- Safely remove cable tie & straps.
- Safety guards slide behind cable tie straps to prevent harming bundled items.
- Retrofit & repair wire harnesses & hose assemblies.
- Scissor action cutter.
- Strips wires 12-22 gauge.

Part No. 11372

PROFESSIONAL RATCHETING CRIMPER

- Ratcheting action ensures a perfect crimp every time.
- Eliminates damaged or distorted terminals.
- Crimps 10-22 ga. insulated terminals.
- Superior design & construction outperforms other crimpers.
- Replaceable crimping jaws.

Part No. 18900

Additional crimpers may be found in Thomas and Betts Products, Section E14.

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CRIMPERS, HEAT GUNS and ELECTRICAL SERVICE TOOLS

QUICK CHANGE RATCHETING TERMINAL CRIMPING KIT

Quickly and easily change Die Sets with the press of a lever.

Includes 7 Die Sets for the most popular automotive terminal crimping applications.

- For insulated terminals 22-10 AWG.
- For non insulated open barrel connectors 22-10 AWG including Weatherpack terminals.
- For fully insulated quick disconnect terminals with thinner wire barrels 22-10 AWG.
- For non insulated terminals 22-8 AWG.
- For miniature rings, spade and butt splices 26-16 AWG.
- For RG-6 and RG-59 coaxial cable.
- For 8mm and 8.5mm spiral core spark plug wire. Strips the insulation, crimps the spiral core to the spark plug terminal and crimps the terminal to the spark plug wire insulation.

Part No. 213386

PROFESSIONAL RATCHET CRIMPING TOOL

For Heat Shrink Terminals

- Mating mechanism prevents slipping or mis-alignment.
- Long handles make it easier to crimp, requiring less force.
- Easy to use & understand release mechanism.
- Ergonomic design to initiate the crimp process.

4 CRIMP NESTS

- 8 AWG, Red
- 12-10 AWG, Yellow
- 16-14 AWG, Blue
- 22-18 AWG, Red

Part No. 213550

HEAVY DUTY - DUAL HEAT GUN

- Two heat settings -750° & 1000°F.
- 10 Amps, 120 Volts.
- Dual air speeds.
- No cool down necessary.
- UL & CSA approved.

Part No. 814127

MINI HOT AIR GUN

- Single heat setting -650°F.
- 3 Amps, 120 Volts.
- Ideal for use in tight areas.
- Excellent for shrink tubing, Shrink 'N Seal terminals, and Solder 'N Seal terminals.
- UL & CSA approved.

Part No. 814131

DC VOLTAGE DETECTOR

Buzzer and light to indicate voltage.

- Detects 6 - 50 volts DC.
- Sharp tip - penetrates fine and heavy wire.
- Can be used for Marine, Industrial or Automotive.
- Test lead wire - 20 gauge, heavy duty, and heat resistant.
- LED light inside - never burns out.
- Made In U.S.A.

Part No. 114374

DC CIRCUIT TESTER

Part No. 11397

- Made of break-resistant plastic.
- Heavy duty 50 amp ground clamp attached to 44'' rubber covered copper wire.
- For 6 & 12 volt system.
- Uses standard automotive Bulb No.1891. Change to 313 bulb for 24 volt system.
- Hole on tip allows use as probe tester-just pull back on collar.
- Long nose reaches where hands can not.

CIRCUIT MASTER®

- Universal tester for primary and computer controlled systems.
- Operating range from 3 to 15 volts DC.
- Includes probe adapter for sensitive computer connections.
- Safe to use on microprocessor control modules.

Part No. 213715

WIRE PIERCING GUIDE

- Prevents stabbing your finger.
- Automatically guides pick point of the circuit tester into the center of the wire being tested.
- Quick, easy & safe to use.
- Holds the circuit tester in place allowing mechanic to work with both hands free.

Part No. 213216

AC SENSOR - SAFE - U.L. LISTED

Senses AC voltage without touching bare contacts or wires.

CAUTION: In order to ensure proper operation prior to each use, the ''AC Sensor'' should be checked on a known voltage carrying source, like any other type of sensor or meter.

Part No. 213499

- SAFE - All surfaces non-conductive.
- FAST - Locates voltage through insulated wire.
- EASY - Probe tip glows bright red in presence of AC voltage 110-600 volts.
- ACCURATE - Differentiates between live and neutral wires.

Simply apply the plastic probe to a connection or pass it along an insulated wire or cable. If AC voltage is present, the probe LED light will glow bright RED. Illumination will cease at a break in circuit or wire. This instrument can be used in the following applications:

- Distinguishes between ''live'' and ''neutral'' wires.
- Detects''hot'' wires in both single and three phase power.
- Identifies faulty in-line devices, blown fuses, breaks in insulated wire & cable, and defective circuit breakers.

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ELECTRICAL SERVICE and PICK-UP TOOLS

VOLTAGE-SENSING PROFESSIONAL GRADE WIRE STRIPPER

Part No. 213555

BUILT-IN VOLTAGE DETECTOR SENSES AC VOLTAGE FROM 50-600 V AC

- Audible and visual alerts indicate the presence of voltage.
- Cuts and strips solid and stranded wire.
- Stainless steel body for maximum corrosion resistance.
- Ergonomic, cushioned handles for ultimate comfort and control.
- Double bevel cutting blades for superior nick resistance.
- Dual gripping positions for traditional or forward hand positions.
- Easy-to-read stamped and ink-filled markings.
- Cuts and rethreads bolt sizes 6-32, 8-32 and 10-32.
- Wire looping holes form wire to fit on screw terminals.
- Plier nose for gripping and pulling.
- cULus listed.
- Durable, drop resistant construction.
- Batteries included.

2 Popular Tools In 1

The first and only wire stripper with a **built-in non-contact voltage sensor** - providing additional safety with **both audible and visual indicators** you can clearly hear and see when AC voltage is present.

Reforms Thread After Cutting

BEEP!
BEEP!
BEEP!

RATCHETING ADJUSTABLE WRENCH SET

• Unique problem solver • Saves time and improves performance

LIFETIME WARRANTY

- Powerful, light.
- Made of heavy-duty chrome vanadium steel.
- Lasered inch and metric scale, one on each side of wrench face.
- Ergonomic anti-slip traction groove handle.
- Patented ratchet function jaw.
- Faster ratcheting function provides efficiency, allowing the user to get the job done faster.

A wrench with combined dual function of ratcheting and being adjustable.

Easy and convenient, allows ratcheting without lifting the wrench off the fastener head or nut, especially in confined spaces.

Part No. 213033
4pc set includes: 6", 8", 10", Custom Fold-Over Pouch

Size	Max Jaw Opening (inch/metric)	Nut Size
6"	3/4" (20mm)	to 7/16" (12mm)
8"	1" (24mm)	to 5/8" (16mm)
10"	1-5/32" (30mm)	to 3/4" (20mm)

CLAW FINGER FLEXIBLE PICK UP TOOL

- 4-finger claw design for retrieving dropped parts, fasteners, and tools.
- Claws can open up to 1 wide.
- 24" flexible body holds shape to reach around various spaces.
- TPR handle rounded knob for extra grip comfort.
- Best for non-metallic items where the magnetic tool will not work.

Part No. 213030

MAGNETIC FLEXIBLE PICK UP TOOL

- Powerful 3 lbs magnetic pick up tool with shielded sides for targeted pick-up.
- Only sticks when you want it to.
- Ideal for retrieving dropped parts, fasteners, and tools.
- 24" flexible body holds shape to reach around various spaces.
- TPR handle rounded knob for extra grip comfort.

Part No. 213031

Save with our Retrieval Set - Part No. 213032
One of each tool – be ready for any challenge!

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ROUGH SERVICE BULBS, LONG LIFE LAMPS, HALOGEN and SPECIAL PURPOSE LAMPS,

ROUGH SERVICE BULBS

PART NUMBER	SIZE WATTS	VOLTS	RATED HOURS LIFE	QTY
11725	50	120	2,000	12
11726	75	120	2,000	12
11727	100	120	2,000	12

12 VOLT - FROSTED - NOT COATED

PART NUMBER	SIZE WATTS	VOLTS	RATED HOURS LIFE	QTY
11104	50	120	2,000	6

Unique filament design resists shock and abuse ordinary bulbs can't withstand.

TUFF-SKIN SILICONE COATED ROUGH SERVICE BULB

Safe & Long Lasting! Non-explosive, non-shattering, silicone coated.

- **Not affected by water.**
- **Excellent for all outdoor use.**
- **Remains intact - armor-like transparent silicone protects against breakage and does not decrease light intensity.**

PART NUMBER	SIZE WATTS	VOLTS	RATED HOURS LIFE	QTY
11995	50	120	2,000	12
11996	75	120	2,000	12
11997	100	120	2,000	12

LONG LIFE
Well suited for use indoors or outdoors including:
Used Car Lots, Truck Terminals, Service Stations, Garages, Mines, Farms and Boat Docks.

LONG LIFE LITE-TRONICS TUFFSKIN BULB

Shatterproof/Waterproof

20,000 hr. lifetime

PART NUMBER	SIZE WATTS	VOLTS	TYPE	LUMENS	RATED HOURS LIFE	QTY
312290	60	120	A-19	495	20,000	6
312291	75	120	A-19	766	20,000	6
312292	100	120	A-21	1070	20,000	6

- **Excellent for all outdoor lighting.**
- **Special coating will not shatter or explode.**
- **Special skin does not decrease light output.**

THE BEST-BUILT LAMP IN AMERICA

OUR LITE-TRONICS **long life lamps are built better and lasts longer than any other lamp made in the world.**

THESE 7 FEATURES, AND OTHERS MAKE OUR LAMP LAST AN AVERAGE OF 20,000 HOURS....OR LONGER!

1) **7 support filament design: Helps resist failure from vibration.**
2) **Heavy duty, high grade tungsten filament wires: Helps resist failure from evaporation.**
3) **Heavy duty lead wires: To help prevent sagging from vibration.**
4) **Brass base: (Rather than aluminum) to prevent corrosion and to keep lamps from sticking in their sockets.**
5) **Special bonding cement: Assures a permanent bonding of bulb to electrical base.**
6) **Inside coating of titanium: (Rather than Silica) for improved light reflection.**
7) **Date coding base: Assures you the exact life you get from your lamp.**

SUPER SERVICE LAMPS

Clear

PART NUMBER	SIZE WATTS	TYPE	LUMENS	RATED HOURS LIFE	QTY
312254	100	A-19	1100	20,000	6
312255	150	A-21	1750	20,000	6

Frost

PART NUMBER	SIZE WATTS	TYPE	LUMENS	RATED HOURS LIFE	QTY
312262	60	A-19	510	20,000	6
312265	150	A-21	1750	20,000	6

T-3 HALOGEN BULBS

PART NUMBER	WATT	DESCRIPTION
311231	150	T-3
311230	300	T-3
311227	500	T-3

13 WATT REPLACEMENT FLUORESCENT BULB

Bayco Exclusive Original Spec. Lamp

- **Ind. No. SL-103.**
- **Ultra bright white.**
- **13w for 120 volt lights.**

Part No. 311224

PROPER INSTALLATION FOR LAMPS:
Do not touch the lamp with your fingers. Use a clean rag or cloth to install lamp. Clean lamp with alcohol, when bulb is cool & turned off.

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EXTENSION CORDS, TROUBLE LIGHTS and ACCESSORIES

HEAVY DUTY TRIPLE CONNECTOR CORD

- Indoor - outdoor 3 wire.
- Grounded orange vinyl extension cord.
- 14/3 SJT W.A. .390 O.D.

PART NUMBER	LENGTH (FEET)	AMPS
11113	25	15
11114	50	15

HEAVY DUTY 4 WAY CORD

- 3 wire flat-orange vinyl.
- 16/3 SPT 2 with ground.
- Molded vinyl cap & remover.

PART NUMBER	LENGTH (FEET)	AMPS
11117	25	15

GROUNDED EXTENSION CORD

- 3 wire grounded extension.
- 16/3 gauge wire.
- Molded vinyl cap.

PART NUMBER	LENGTH (FEET)	AMPS
11115	25	13
11116*	50	13

*Flat cable

MINI FLUORESCENT TROUBLE LIGHT

Part No. 311206

- Half the size and 5 times brighter than a standard fluorescent utility light.
- 13 watt twin tube, replaceable bulb.
- Non glare reflector.
- Shatter resistant housing with 360° swivel hook and starter switch in handle.
- 18/2 SJT cord, plug-in ballast, 25 foot cord.
- Made in USA.

For Replacement Bulb
Order Part No. 311207 Fits Part Lamp No. 311206

STANDARD TROUBLE LIGHT

Part No. 11101 25' cord
Part No. 11102 50' cord

- Oil, acid, grease and moisture resistant handle.
- 18/3 SJT wire, rated 10 amp - 125 volt.
- Metal guard.
- Side outlet and switch.
- Meets OSHA requirements for general use.

METAL GUARD

Part No. 11107

- UNIVERSAL.
- Heavy galvanized steel.
- Fits all handles.

LAMP HANDLE

Part No. 11108

- IMPACT RESISTANT.
- UL approved.
- Phenolic handle includes 3 wire socket and switch.

ROTATING MAGNETIC LED WORK LIGHTS

- High intensity LED lights.
- Sturdy aluminum housing.
- Strong magnetic base attaches to any ferrous metal.
- Rotates 360° degrees.
- Head pivots to direct light where it is needed.
- Batteries included.

Part No. 311240
24 LED
Head Dia.: 2-3/4"
Base Dia.: 2"

Part No. 311245
48 LED
Head Dia.: 3-3/4"
Base Dia.: 2-5/8"

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BAYCO LIGHTING PRODUCTS

POWER OUTLET RETRACTABLE WHEELS

- 30 ft., 16/3 wire cord with Tr-Tap outlet.
- Receptacle rated 10 amp.
- LED power status light built into outlet.

Part No. 311215

ROUGH DUTY FLUORESCENT WORK LIGHT on 40 FT. METAL REEL

- 16/3 SJT wire cord.
- Polarized plug outlet in handle.

For rpl. bulb use Part No. 311224

Part No. 311216

STUBBY FLUORESCENT WORK LIGHTS on RETRACTABLE REEL

- Standard Series.
- 20 ft., 18/2 wire cord.

Part No. 311228

- Pro Series Heavy Duty Reel
- 50 ft., 18/2 wire cord.

Part No. 311217

For rpl. bulb use Part No. 311224

UTILITY LIGHT on 40 FT. METAL REEL

- Metal lamp shield w/hook.
- 16/3 wire - 10 amp grounded receptacle.
- Use with 74 watt incandescent bulb.

Part No. 311218

INCANDESCENT WORK LIGHT w/RETRACTABLE REEL

- Metal shield.
- 50 ft., 18/3 SVT wire cord.
- With Tap retractable.
- Uses 75 watt bulb.

Part No. 311219

REPLACEMENT WORK LIGHT HANDLE w/METAL CAGE

- Yellow poly. handle with 10 amp grounded receptacle and on/off switch.
- Yellow flame retardant polypropolene handle.

Part No. 311209

RECHARGEABLE DUAL-POSITION MAGNETIC LED WORK LIGHT

- 66's LED's for brillant illumination.
- LED's are cool to the touch, 35,00 hour life.
- Magnet in top & body for hands-free lighting.
- Repositional hook for horizontal or vertical hanging.
- Chemical, moisture, impact resistant housing.
- Internal NiMH battery pack, no memory effect.
- Chargers included.

Part No. 311238

13 WATT FLUORESCENT REPLACEMENT HEAD

- 13 watt ultra bright.
- 18/2 wire cord.
- 10,000 hour bulb.
- Nylon tipped hanger hooks.
- Impact tough housing.
- Rocker on/off switch.

Part No. 311225

PRO SERIES REPLACEMENT HEAD

- Fluorescent bulb included.
- Fits heavy duty 16/3 wire.
- 12 amp receptacle.

Part No. 311226

PRO SERIES ANGLE LIGHTS 13 WATT STUBBY FLUORESCENT

- Yellow poly. handle with ballast transformer and grounded receptacle.
- High impact protector with aluminized light reflector.
- Includes tool tap, 16/3 SJTW 25 ft. cord and is UL/CUL listed.

For rpl. bulb use Part No. 311224

Part No. 311220

FLUORESCENT STUB WORK LIGHT STANDARD SERIES

- 20 ft., 18/2 wire cord.

Part No. 311213

- 50 ft., 18/2 wire cord.

Part No. 311214

(NO RECEPTACLE)

INCANDESCENT WORK LIGHTS w/METAL CAGE

- With switch and convenience receptacle.
- Metal grounded guard with hook.
- 25 ft., 16/3 yellow, SJT jacket wire.

Part No. 311211

- 50 ft., 16/3 yellow, SJT jacket wire.

Part No. 311212

26 WATT ELECTRONIC COMPACT FLUORESCENT ANGLE LIGHT

- Slim design includes two 13 watt tubes.
- Dual switch, magnetic base and power outlet on handle.
- 25 ft., 16/3 SJT wire cord.

For rpl. bulb use Part No. 311224

Part No. 311222

1,000 WATT HALOGEN WORK LIGHT

- Work light and stand.
- Pole adjusts from 3 to 6 ft.
- Includes two spare bulbs.
- Top fixtures detach to make a floor unit.
- 6 ft. wire cord.

For rpl. bulb use Part No. 311227

Part No. 311208

D12

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FLASHLIGHTS and BULBS

STEEL PENLITE

TRIPLE CHROME PLATED with PUSH BUTTON
Uses 2 "AA" cells
(Batteries not included)

Part No. 812912

POCKET LED LIGHT

- 6 brillant LED's with wide angle technology.
- 36 lumens, 14 hr. run time.
- ABS plastic, water & shock resistant.
- Hands free - clips onto pockets.

Part No. 113929

STANDARD FLASHLIGHT BULBS

- Energy saving 1.19 watt bulb.
- Fits standard 2-D cell battery flashlights.
- 2.38 volt.
- PR-2.

Part No. 615155 - 10 pack

ENERGIZER® RUBBER FLASHLIGHT

Quality features:
- Deep, faceted reflector.
- Brighter Krypton bulb.
- Unbreakable shatter-proof lens.
- Push-button switch.
- Heavy duty rubber.
- Non-roll feature.
- Weatherproof.
- Uses 2 "D" cells (Batteries not included)

Part No. 812921

INDUSTRIAL FLASHLIGHT w/RING HANGER

Energy saving PR-6 bulb conserves 35% battery energy, or can also use PR-2 bulb. Safety switch guard to reduce accidental lighting. Sure grip ribbing for non-slip handling. Unique spare bulb compartment. Uses 2 "D" cells. (Batteries not included)

Part No. 812916

EVEREADY® UTILITY LANTERN

- The Eveready® floating lantern features shatter-proof lens, rugged injection-molded and bright beam.
- Anti-roll foot for stability.
- Lifetime guarantee.
- Soft push-button switch.
- Uses 6V battery (Batteries not included)

Part No. 812919

EVEREADY® INDUSTRIAL FLASHLIGHT

- Heavy duty industrial light built to withstand a five-foot drop to concrete.
- Polypropylene housing resists grease, oil and gasoline.
- Shatter-proof lens.
- Wide switches for gloved hand.
- Uses PR2 Bulb and 2 "D" cells (Batteries not included)

Part No. 812920

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BATTERIES

ALKALINE LEAK PROOF INDUSTRIAL BATTERIES

DURACELL® Lantern batteries - *AMP/Hours

DURACELL® Industrial cells

812907 6	812908 6	†812910 4	812901 12	812902 12	812903 12	812904 24	812900 24
6 Volt, 20AH*	6 Volt, 20AH*	12 Volt, 20AH*	9 Volt	"D"size	"C"size	"AA"size	"AAA"size

Duracell industrial batteries are constructed with an inner plastic lining to prevent leakage. This eliminates the possibility of damage to costly components. Duracell Alkaline industrial batteries cannot be purchased in retail stores and should not be confused with other Duracell batteries.

NOTE: NO "MP"'S ALLOWED ON BATTERIES.

†NOTE: PART NO. 812910 IS NOT ALKALINE.

LITHIUM BATTERIES

DURACELL®

Keyless entry systems, calculators, watches, organizers, security devices, camera's, computer memory, camcorder and glucometers.

ACTUAL SIZE

Part No. 812008
18 pieces • 6 items
12051 steel tray

812980	812982	812984
812981	812983	812895

Numbers in assortment

PART NUMBER	QTY	INDUSTRY NUMBER	VOLTAGE
812980	3	CR1616	3.0
812981	3	CR1620	3.0
812982	3	CR2016	3.0
812983	3	CR2025	3.0
812984	3	CR2032	3.0
812985	3	CR2450	3.0

"A23" ALKALINE BATTERY

- **"A23" BATTERIES, 12V.**
- **Used for keyless entry systems, alarm systems, calculators, digital cameras and more.**
- **Sold 2 per pack.**

Part No. 812979 2
"A23" 12V alkaline

"N" ALKALINE BATTERY

- **"N" BATTERIES, 1.5V.**
- **Used for hand held meters, pagers, walkie-talkies, emergency lighting, and many electronics.**
- **Sold 2 per pack.**

Part No. 812978 2
"N" 1.5V alkaline

ENERGIZER 357 BUTTON CELL BATTERY

Rest assured your device will remain powered for along time using trusted reliable Energizer button and coin cell batteries.
Ideal for use in:

- **Keyless entry.**
- **Digital thermometers.**
- **Car alarms and more...**
- **Replaces: Ind LR44, AG13, Panasonic SP357, Duracell D357/303, Maxell SR4W.**

Actual Size 7/16"

Part No. 812976 (3)
1.5V lithium

"3V" LITHIUM SIZE 123

- **Delivers maximum power and longevity.**
- **Advanced technology for todays electronic & digital devices.**

(Sold Individually)

Part No. 812977
"3V" lithium size 123

D12

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PATRIOT WELDING & BRAZING RODS

PATRIOT WELDING & BRAZING RODS

Specially formulated for top performance on every job - whether you weld over 8 hours a day or just 2-3 times a week - guaranteed to give you the best results you have ever had.

TOP RATED RODS, MADE IN THE USA

WELDING RODS

NAME	DESCRIPTION	APPLICATION	DIAMETERS 1/16	3/32	1/8	5/32
Cobra	The ultimate electrode for welding all types of steels, without any danger of cracking or breakage. Ideal for "Stud Pull" applications.	Steel	---	818103 sold in 5lb. pack	818104	818105
Sidewinder	Universal all position mild steel electrode. Offers the convenience of flat, vertical up and down, and overhead welding without changing amperage setting. Electrode can be bent without flux breakage.	Steel	---	818113	818114	818115
Combat	Excels on rusty, greasy, poor fitting joints in all positions. Ideally suited for difficult maintenance repairs.	Steel	---	818123	818124	818125
Torpedo	Can gouge, bevel or cut all metals including stainless steels, aluminums and copper. No oxygen is required. Extra low smoke.	All Metal Cut, Groove & Gouge	---	818133	818134	818135
Tomahawk	Unique self lifting slag. Long shelf life. Excellent for joining dissimilar grades of aluminum.	Aluminum	---	818143	818144	818145
Tiger	Strong arc drive penetrates oil and grease easily. Flux coating does not side arc. Excellent for vertical up welding.	Cast Iron	---	818153	818154	818155
Snakeye	Electrode for joining dirty - contaminated cast irons and cast irons to steel. No Hazardous fumes. Crack resistant machinable welds.	Cast Iron	---	818163	818164	818165
Rescue	Excellent all position capabilities. Extra low carbon content to resist pitting.	Stainless Steel	---	818173 sold in 5lb. pack	818174	818175
Phoenix	For protecting most iron base surfaces against sever abrasive wear and moderate impact. Ripple free surface doubles "grip resistance". Special formula totally eliminates porosity.	Tool Steel Hard Facing	---	---	818184	818185
Harpoon	Low hydrogen electrode produces an exceptionally smooth, spatter free arc transfer on mild and low alloy steels. Exhibits unusually good AC welding characteristics, slag release and instant re-strike.	Steel	---	---	818194	818195
Stinger	For higher strength steel structures that require toughness and crack resistance. Low temperature/low hydrogen/extra low moisture content is below .14%.	Steel	---	818203	818204	818205

BRAZING RODS

NAME	DESCRIPTION	APPLICATION	DIAMETERS 1/16	3/32	1/8	5/32
Falcon	Cadmium free silver brazing alloy. Low temperature joining of dissimilar metals. Excellent where tolerances and fit are not perfect. The only flux coated silver flux strong enough to clean oxidized stainless steel.	Brazing Rods	818301 sold in 1/4lb. pack	818303	---	---
Defense	Bronze brazing alloy. Torch brazing most steels and cast irons. Especially suited for joining thin sections. Flux cleansing action is exceptional on dirty steels and cast irons.	Brazing Rods	---	818313	818314	---
Armor	Ultra high purity nickel silver alloy. High strength joining of steels using both the thin flow and bead form techniques. Exceptional on dirty steels and cast irons.	Brazing Rods	---	818323	818324	---

All rods sold in moisture proof packs.

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PATRIOT WELDING RODS

COBRA (Steel)

The ultimate electrode for welding all types of steels, without any danger of cracking or breakage.

Ideal for "Stud Pull" applications.

An engineered deposit chemistry that has the perfect ratio of metallics to offer crack resistance far superior to any other brand.

APPLICATIONS: Due to exceptional strength and crack resistance, it is ideal for repairing tools, dies, spring steel and any dissimilar metal combinations, except for the aluminum and copper alloys. It is also recommended for repairing worn parts and as an underlay for hardfacing.

WELDING TECHNIQUES: The area in which the weld is to be made should be free of rust, grease, paint and other materials which cause weld contamination. A 90° vee joint should be used when joining heavy sections. Maintain a short arc length and use stringer beads.

WELDING POSITIONS: Flat, Horizontal, Vertical up, Overhead

RECOMMENDED CURRENT: DC reverse polarity (Electrode +) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength as welded	128,000 psi (880 N/mm^2)
work hardened	186,000 psi (1280 N/mm^2)
Yield strength	90,000 psi (630 N/mm^2)
Elongation	32%, 36% 16 coatings
Hardness	Brinell 225

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818103**	35/70	12	26
1/8	**818104**	60/110	14	14
5/32	**818105**	75/140	14	9

COMBAT (Steel)

Excels on rusty, greasy, poor fitting joints in all positions.

Ideally suited for difficult maintenance repairs.

APPLICATIONS: Can weld through 1/2 inch (12mm) of surface contamination without porosity. Can bridge gaps as wide as 3/8 inch (9mm). Electrode can be bent without flux chipping. Slag can be welded over without removal.

WELDING TECHNIQUES: Weld with a short-medium arc length at low amperage. When surface preparation is impractical, use a medium-long arc and favor high amperages. Multi-pass welds can be made without intermittent slag removal. Use any welding technique from stringer bead to wide weave.

WELDING POSITIONS: Flat, Vertical up, Vertical down, Horizontal, Overhead

RECOMMENDED CURRENT: DC reverse (+), Straight (-) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	88,000 psi (630 N/mm^2)
Yield strength	80,000 psi (570 N/mm^2)
Elongation	28%

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818123**	25/75	14	31
1/8	**818124**	35/125	14	18
5/32	**818125**	50/160	14	11

SIDEWINDER (Steel)

Universal all position mild steel electrode.

Offering the convenience of flat, vertical up and down, and overhead without changing amperage setting.

Electrode can be bent without flux breakage.

APPLICATIONS: Versatile all around repair and fabrication of clean, well fitting common mild steel components. Fast freeze slag characteristics ensures fully positional operability.

WELDING TECHNIQUES: Hold a short to medium arc length, lean electrode 45° towards the direction of travel. Use either the stringer or weave technique.

WELDING POSITIONS: Flat, Vertical up, Vertical down, Horizontal, Overhead

RECOMMENDED CURRENT: DC Straight (-), Reverse (+) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	83,000 psi (600 N/mm^2)
Yield strength	75,000 psi (540 N/mm^2)
Elongation	25%

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818113**	50/70	14	25
1/8	**818114**	70/110	14	15
5/32	**818115**	115/140	14	10

TORPEDO (All Metal)

Can gouge, bevel or cut all metals including stainless steels, aluminums and copper.

No oxygen required.

Extra-low smoke.

APPLICATIONS: Excellent for the removal of stainless steel joints and overlays. Designed specifically for small AC welding machines. Special coating elements form an electrically conductive "cup" for ease of restrike.

WELDING TECHNIQUES: Hold electrode at a 10° angle above workpiece. Initiate arc and move forward in a straight or back and forth motion. For cutting use a "sawing action" technique.

WELDING POSITIONS: Flat, Vertical up, Vertical down, Horizontal, Overhead

RECOMMENDED CURRENT: DC Straight (-) or AC

GOUGING RATES:

Diameter	Arc Time of Gouging
3/32	1.6 sec/in
1/8	1.2 sec/in
5/32	1.0 sec/in

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818133**	100/70	14	24
1/8	**818134**	170/250	14	14
5/32	**818135**	220/330	14	9

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PATRIOT WELDING RODS

TOMAHAWK (Aluminum)

Unique self lifting slag.
Long shelf life.
Excellent for joining dissimilar grades of aluminum.

APPLICATIONS: For arc welding aluminums alloyed with copper, silicon, and magnesium.

WELDING TECHNIQUES: Start by using the upper portion of the amperage range. Feed the electrode quickly and move fast maintaining a very close arc gap.

WELDING POSITIONS: Flat, Horizontal

RECOMMENDED CURRENT: DC reverse (+)

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	34,000 psi (250 N/mm²)
Yield strength	20,000 psi (150 N/mm²)
Elongation	18%

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818143**	50/80	14	49
1/8	**818144**	70/120	14	33
5/32	**818145**	110/150	14	23

SNAKEYE (Cast Iron)

Electrode for joining dirty - contaminated cast irons and cast irons to steel.
No hazardous fumes.
Crack resistant machinable welds.

APPLICATIONS: Uinversal electrodes for joining a wide variety of ductile, nodular and malleable cast irons. Ideally suited for the repair of meehanite dies. Extremely strong arc drive penetrates surface contaminants. Special slag composition can be welded over without creating porosity.

WELDING TECHNIQUES: Remove any surface contamination with the proper solvents. Adjust the welding machine to the lowest proper setting that yields good welding conditions.

WELDING POSITIONS: Flat, Vertical up, Horizontal, Overhead

RECOMMENDED CURRENT: DC reverse (+) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	70,000 psi (500 N/mm²)
Yield strength	49,000 psi (350 N/mm²)
Elongation	20%
Hardness	Rockwell B 88-90 Brinell 180

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818163**	50/80	12	28
1/8	**818164**	70/110	14	15
5/32	**818165**	100/140	14	10

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TIGER (Cast Iron)

Strong arc drive penetrates oil and grease easily.
Flux coating does not side arc.
Excellent for vertical up welding.

APPLICATIONS: Very soft machinable welds on all weldable cast irons. Especially suited for welding in deep recesses or close quarters due to the non-conductive flux coating.

WELDING TECHNIQUES: Maintain a close gap and move rapidly in the direction of travel. Slag can be welded without removal.

WELDING POSITIONS: Flat, Vertical up, Vertical down, Horizontal, Overhead

RECOMMENDED CURRENT: DC Reverse (+) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	55,000 psi (380 N/mm²)
Yield strength	38,000 psi (270 N/mm²)
Elongation	30%
Hardness	Rockwell B 82-84 Brinell 155

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818153**	70/90	12	22
1/8	**818154**	80/120	14	13
5/32	**818155**	130/160	14	9

RESCUE (Stainless Steel)

Excellent all position capabilities.
Extra low carbon content to resist pitting.

APPLICATIONS: For molybdenum bearing stainless steels with 1.5 to 3.0% Mo. Primarily used for resistance to pitting, many acids and general corrosion. Suitable for titanium and niobium stabilized versions of 316L stainless.

WELDING TECHNIQUES: Material to be welded should be clean of all contaminants. Maintain a short arc and use stringer beads rather than a weave technique.

WELDING POSITIONS: Flat, Vertical up, Horizontal, Overhead

RECOMMENDED CURRENT: DC Reverse (+) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	80,000 psi (550 N/mm²)
Yield strength	56,000 psi (390 N/mm²)
Elongation	42%
Hardness	Rockwell B 96 Brinell 209

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818173**	55/75	12	28
1/8	**818174**	75/110	14	13
5/32	**818175**	90/140	14	9

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PATRIOT WELDING RODS

PHOENIX (Tool Steel)

Chromium carbide electrode for economical smooth overlays.
Ripple free surface doubles "grip resistance".
Special formula totally eliminates porosity.

APPLICATIONS: For protecting most iron base surfaces against severe abrasive wear and moderate impact.

WELDING TECHNIQUES: Use a stringer or wide weave technique. Deposit a maximum of 2 to 3 passes to achieve full hardness.

WELDING POSITIONS: Flat, Horizontal (1/8" diameters can be used out of position)

RECOMMENDED CURRENT: DC reverse (+) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Hardness	Rockwell C 58-60 Vickers 670-700
Wear Co-efficient	2%

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
1/8	**818184**	110/140	14	9
5/32	**818185**	160/200	14	6

HARPOON (Steel)

This low hydrogen electrode produces an exceptionally smooth, spatter free arc transfer on mild and low alloy steels.

This electrode exhibits unusually good AC wedling characteristics, slag release and instant re-strike.

APPLICATIONS: For joining and repairing of boiler plate, pipe steels, ship-building steels, and cast steels. Ideal for weathering steels and steels designed for outdoor service. Great for overlaying shafts and other worn parts. It is also used to repair and fabricate cold and hot rolled steels and most construction grades. Use on angle irons, beams, tanks and farm equipment.

WELDING TECHNIQUES: Clean weld area and chamfer or bevel as needed. Maintain a short arc gap and use a stringer or slight weave technique. Chip slag thoroughly between passes. Peen weld immediately after breaking the arc.

WELDING POSITIONS: Flat, Vertical up, Vertical down, Horizontal, Overhead

RECOMMENDED CURRENT: DC reverse (+) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	84,000 psi (610 N/mm^2)
Yield strength	69,000 psi (500 N/mm^2)
Elongation	32%
Hardness	17-21 HRC

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
1/8	**818194**	100/140	14	12
5/32	**818195**	140/190	14	8

STINGER (Steel)

Excellent for high strength steel structures that require toughness and crack resistance to temperatures as low as -76°F (-60°C).

Low hydrogen, low temperature, extra low moisture content is below .14%.

APPLICATIONS: Nickel bearing low hydrogen designed for joining low alloy steels requiring high elongation combined with excellent low temperature impact values.

WELDING TECHNIQUES: Remove all surface contaminants.
Maintain a short arc gap and use a stringer or slight weave technique.
Chip slag thoroughly between passes.

WELDING POSITIONS: Flat, Vertical up, Vertical down, Horizontal, Overhead

RECOMMENDED CURRENT: DC reverse (+) or AC

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	92,000 psi (670 MPa)
Yield strength	76,000 psi (500 MPa)
Elongation	29%
Impact energy	100J: -76°F (-60°C) 90J: -103°F (-75°C) 35J: -148°F (-100°C)

DIAMETER (INCHES)	PART NUMBER	REC. AMPERAGE	LENGTH (INCHES)	ELECTRODES/ POUND
3/32	**818203**	65/100	14	38
1/8	**818204**	100/140	14	27
5/32	**818205**	140/190	14	15

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PATRIOT BRAZING RODS

FALCON (Brazing Rods)

Cadmium free silver brazing alloy.

The only flux coated silver flux strong enough to clean oxidized stainless steel.

No odors from rubberized compounds yet the flux coating is totally flexible and non-fragile.

APPLICATIONS: Low temperature joining of dissimilar metals - including stainless steel, brass and copper. Excellent where tolerances and fit are not perfect. Special "Fast Flow" flux coating provides twice the base metal cleansing action of conventional silver flux coatings. Cadmium free rod can be used in the food, medical & pharmaceutical industries.

WELDING TECHNIQUES: After cleaning metal, preheat generally to 350°F (200°C) then heat the joint area to 800°F (420°C). Melt off some flux and allow it to flow throughout the joint. Then add alloy.

TEMPERATURE RANGES:

Working Temperature:	1245°F (674°C)
Melting Range:	1175°F (639°C) Solidus 1235°F (670°C) Liquidus

TORCH SETTING: Slightly carburizing

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	68,000 psi (465 N/mm²)
Yield strength	54,000 psi (372 N/mm²)
Elongation	25%
Hardness	Brinell 120

DIAMETER (INCHES)	PART NUMBER	LENGTH (INCHES)	RODS PER 1/4 POUND
1/16	**818301**	18	8
3/32	**818303**	18	4

DEFENSE (Brazing Rods)

Bronze brazing alloy with slick, smooth moisture sealed flux has triple the shelf life of similar products.

Flux cleansing action is exceptional on dirty steels and cast irons.

APPLICATIONS: Torch brazing most steels and cast irons. Especially suited for joining thin sections. Unique "Safe Vue" flux coating eliminates harsh chemical odors and the bright orange visibility blocking glare of conventional sodium type flux coatings.

WELDING TECHNIQUES: Insure that parts to be joined are clean. Pre-heat general area to 700°F (400°C) and then specific area to 1200°F (650°C). Melt off flux and apply alloy.

TEMPERATURE RANGES:

Working Temperature:	1595°F (878°C)
Melting Range:	1583° - 1620°F (870° - 885°C)

TORCH SETTING: Neutral flame.

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	71,000 psi (490 N/mm²)
Yield strength	64,000 psi (440 N/mm²)
Elongation	27%

DIAMETER (INCHES)	PART NUMBER	LENGTH (INCHES)	RODS PER POUND
3/32	**818313**	18	23
1/8	**818314**	18	13

ARMOR (Brazing Rods)

Ultra high purity nickel silver alloy.

Slick, smooth moisture sealed flux has triple the shelf life of similar products.

Exceptional on dirty steels and cast irons.

APPLICATIONS: High strength joining of steels using the thin flow and bead form techniques. Unique "Safe Vue" flux coating eliminates harsh chemical odors and the bright orange visibility blocking glare of conventional sodium type flux coatings.

WELDING TECHNIQUES: Insure that parts to be joined are clean. Pre-heat general area to 700°F (400°C) and then specific area to 1200°F (650°C). Melt off flux and apply alloy.

TEMPERATURE RANGES:

Working Temperature:	1595°F (878°C)
Melting Range:	1583° - 1640°F (870° - 895°C)

TORCH SETTING: Neutral flame.

TYPICAL MECHANICAL PROPERTIES:

Undiluted Weld Metal	Maximum Value Up To
Tensile strength	102,000 psi (700 N/mm²)
Yield strength	90,000 psi (630 N/mm²)
Elongation	28%
Hardness	Rockwell B 96 Brinell 210
Work Hardness	Rockwell C 25 Brinell 265

DIAMETER (INCHES)	PART NUMBER	LENGTH (INCHES)	RODS PER POUND
3/32	**818323**	18	23
1/8	**818324**	18	13

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PATRIOT WELDING RODS STARTER ASSORTMENT

Features five of our top selling 1/8" diameter welding rods.

INCLUDES

COBRA	All types of steels. Ideal for "Stud Pull" applications.
SIDEWINDER	Universal all position mild steel electrode.
COMBAT	For difficult maintenance repairs including rusty, greasy, poor fitting joints.
TORPEDO	All metals including stainless steels, aluminums & copper. No oxygen is required. Extra low smoke.
PHOENIX	Tool steel & hard facing applications. Totally eliminates porosity.

MADE IN THE USA

ACCESSORIES

SOAPSTONE/HOLDER
For marking cutting lines & weld areas.

WIRE SCRATCH BRUSH
10" x 1-1/8" block. Shoe handle design.

Part No. 501747
72 pieces • 7 items
12116 steel tray

SCAVENGER WELDING WIRE

Mild steel wire produces high quality welds due to higher levels of manganese & silicon.

- **Outperforms others on dirty, oily or rusty steel.**
- **High silicon content increases fluidity of weld pool.**
- **Creates a smoother bead appearance & results in minimal post weld grinding.**
- **Provides porosity-free, x-ray quality welds.**
- **Requires a shielding gas: CO2 and / or CO2 mix.**

Superior Tensile strength: 95,000 P.S.I.

Applications: General purpose, steel castings, forging salvage, tanks, sheet metal and construction.

PART NUMBER	DIAMETER	PER SPOOL
818200	.035	33 lbs.
818201	.045	33 lbs.

SUPER HIGH STRENGTH MIG WELDING WIRE

Ideally suited for automotive frame work and body "sectioning".

- **35% STRONGER than ordinary high strength steel wire (standard H.S. wire yields 58,000 to 60,000 PSI tensile strength.)**
- **Excellent results on rusted, thinly scaled steels.**
- **Ideal for deep penetration.**
- **High tensile strength makes this wire more compatible with today's high strength steels than ordinary MIG welding wires.**
- **Use 75% ARGON - 25% CO2**

Tensile strength: 80,000 P.S.I.

PART NUMBER	DIAMETER	PER SPOOL
812826	.030	10 lbs.
812827	.035	10 lbs.

GENERAL PURPOSE MIG WELDING WIRE

- **Mild steel wire for use on low and medium carbon steel.**
- **Contains silicone and manganese.**
- **Excellent for welding over rust and scale.**
- **Fluid weld puddle and flat beads.**
- **Minimum build up, less grinding required.**
- **Use with C02. 75% Argon - 25% C02, or Argon - Oxygen Yields higher strength when Argon is the main shielding gas because less manganese and silicone is burned out.**
- **AWS Class - ER7OS-6**

Tensile strength: 60,000 P.S.I.

PART NUMBER	DIAMETER	PER SPOOL
812833	.023	11 lbs.
812834	.030	11 lbs.

ALUMINUM MIG WELDING WIRE

- **Excellent for anodized aluminum and general aluminum repair**
- **Wire has clean, bright, smooth finish that assures trouble free feeding**
- **Produces porosity free welds**
- **Uniform bead shape with excellent penetration**
- **Superior cracking resistance and maximum strength**
- **Use with 100% Argon gas.**
- **A unique blend of AWS 4043 and AWS 5356**

Tensile strength: 35,000 P.S.I.

PART NUMBER	DIAMETER	PER SPOOL
812831	.030	1 lbs.

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WELDING ACCESSORIES and SUPPLIES

WELD-FLEX SUPER FLEXIBLE WELDING CABLE

THE FINEST WELDING CABLE AVAILABLE

Sold by the foot. Custom cut lengths to meet your requirements. Minimum order: 10 feet

Excellent for Heavy Duty Battery and Jumper Cables

- Rope stranded ultra-thin No. 32 AWG annealed copper wire.
- Conforms to all international specifications.
- High flexibility of conductor and jacket makes handling extremely easy.
- Double cover jacket of PVC inner core, NBR (acrylonitrile rubber) outer jacket exceptionally tough and durable, very resistant to abrasion, oil, heat, ozone, and most solvents.

Actual Diameter

PART NUMBER	GAUGE	APPROX. # OF WIRES	CURRENT RATING (AMPS)
310226	4	660	162
310227	2	1050	279
310228	1/0	1670	390
310229	2/0	2107	416

NOTE: For more cable products see page E11-4.

CABLE CONNECTOR SET

PART NUMBER	CABLE CAPACITY
412217	4, 2, 1, 1/0

- Add on - take off cable.
- Splice or repair cable.
- Shorter cable - save wear & tear.
- Save operator's time.
- Remove cable to prevent theft.
- Neoprene covers.
- Attaches with 7/32" hex wrench.

Each set includes: (Order 1 set for each cable)
1 male connector 1 female connector 1 pair Neoprene covers

ELECTRODE HOLDER

Part No. 412215

- 9-5/8" long.
- 19 oz.
- Cable size: 2/0.
- Hard fiber handle.
- Electrode thru 1/4" diameter.
- High production 250-300 amp capacity.
- Manufactured of 98% pure copper alloy, heat treated, fiber glass insulators.

DOUBLE-LOCK GROUND CLAMP

Part No. 412216

- Provides superior conductivity.
- High clamping pressure.
- Large, flat contact surface.
- Long levered handles.
- 300 amp capacity.
- Cable size: 1/0 & 2/0.
- Jaw opening: 1-1/4"

CHIPPING HAMMERS

Weld cleaning tools

- Extra wide blade design.
- Extra slim tapered cones.
- Heavy duty handles shaped to fit hand.
- Hardened heads.

DUAL HAMMER

- 2 tools in one - chisel 7 replacement brush.
- Spring steel handle.
- Wire bristle brush.
- Triple welded brush frame for break resistance.

Part No. 412206

PINNED HEAD HAMMERS

- Pinned heads won't fly off.
- Won't transmit heat.

Cone & Chisel

Part No. 412204

Cone & Cross Chisel

Part No. 412205

WIRE SCRATCH BRUSHES

- Trimmed for maximum abrasive action.
- Top quality wire.

PART NUMBER	DESCRIPTION
412208	Stainless steel wire brush
812156	Steel wire brush

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WELDING ACCESSORIES and SUPPLIES

TIP CLEANER KIT

- Insures clean hot flames.
- Use of tip cleaners keeps welding and cutting tips free from slag and spatter.
- New design provides 60 or more cleaning edges per inch.
- Rounded cleaning surfaces won't jam or cut.
- Straight sided valleys insure thorough cleaning by removing all waste.
- Will not damage tip ports by scratching or deforming.

CLEANER NUMBER	FOR DRILL HOLE SIZE	CLEANER NUMBER	FOR DRILL HOLE SIZE
7	75-74	16	59-58
8	73-72-71	17	57
10	70-69-68	18	56
12	67-66-65	22	55-54
14	64-63-62	24	53-52
15	61-60	26	51-50-49

Part No. 412210
12 cleaners & 1 file for 27 drill hole sizes

SPARK LIGHTER

- Large 1 square inch file area.
- Large diameter spark flint.
- Cartridge holding flint locks exactly into position.

PART NUMBER	DESCRIPTION	QTY
412211	Spark lighter	
412212	Replacement flints	6

SOAPSTONE AND HOLDER

- For marking cutting lines and weld areas

PART NUMBER	DESCRIPTION	QTY
412213	Round aluminum soapstone holder with pocket clip & one soapstone	
412214	Soapstone refills	6

FLIP FRONT GOGGLE

- Soft, flexible frame contains effective air circulation system.
- Flexible vinyl construction.
- Adjustable elastic head band.
- Fits over eye glasses.
- Hinged, lift-front door.
- 2" x 4-1/4" lens (Gold shade no. 5 included).
- Lens plate can be easily changed.

Part No. 412226

HEAVY DUTY WELDING GLOVES

- Heat resistant.
- 4-1/2" heavy safety cuff.
- Heavy top quality leather - palm, back, fingers, cuff.
- Fully lined.
- Wing thumb.
- Gunn pattern.
- Seamless back.
- 12-1/2" overall length.

Part No. 312113

FLASH GLASSES

- Provides flash protection against infrared radiation.
- Worn under welding helmets.
- Adjustable temples.
- Green perforated side shields.
- Universal bridge.
- Durable ebony frame.
- Heat treated dark green glass lenses.
- Large 40mm eye size.

Part No. 812544

WELDING BLANKETS

Use for general purpose welding, sparks and spatter.

- 35 oz. (industry standard) white fiberglass-no coating.
- 1000°F melting temperature.
- .08" thick, grommets on 18" centers.
- Locked stitched with heat resistant fiberglass thread.

PART NUMBER	DESCRIPTION
412240	6 ft x 6 ft
412241	10 ft x 10 ft

WARNING: Temperature and applications intended as a guideline only and implies no guarantee of performance. All blankets are subject to burn through. The product only provides temporary protection within their individual specifications. It is the users' responsibility to monitor the activity and use of the product at all times.

LENSES AND PLATES

PART NUMBER	SIZE INCHES	COLOR	MATERIAL	USE WITH PART NUMBER	QTY
812531	2 x 4-1/4	No. 5 Green	Impact resistant plastic	412226	2
812538	2 x 4-1/4	Clear	Impact resistant plastic plate		2
812539	2 x 4-1/4	Clear-Cover	CR-39 cover plastic plate	In front of filter Lens all 2 x 4-1/4	6
412223	4-1/2 x 5-1/4	Clear	Cover plate		3
412222*	4-1/2 x 5-1/4	No. 10 Gold	Polycarbonate		

- Ultimate shield against infra-red and ultra-violet radiation.
- Superior visibility compared to standard green lenses.
- Reduces eye strain and fatigue.
- Highly improved view of weld puddle.

* Special gold reflective coated lenses.

WARNING: Always replace pitted or scratched protective lenses and plates. Always use a clear cover plate over lenses.

COLOR SELECTION GUIDE

SHADE NO.	STD. VISIBLE TRANS.	ULTRA-VIOLET TRANS.	INFRA-RED TRANS.	RECOMMENDED USES
5	1.93%	none	less than .01%	Light acetylene welding, cutting up to 1 inch; torch brazing; light electric spot welding.
10	0.0139%	none	less than .01%	Shielded metal-arc welding 1/16, 3/32, 1/8, 5/32 inch electrodes. Arc welding - 75-200 amperes.

Helmet and goggles meet ANSI Z87; 1-1979 specifications.

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WELDING SUPPLIES

COOL GEL® HEAT BARRIER SPRAY

Helps protect surfaces during soldering, brazing and welding.

- **Thick gel formula heat barrier spray - stays where it is sprayed!**
- **Reduces danger of fire to surrounding surfaces.**
- **Protects adjoining areas made of wood, wall-board, insulation, etc.**
- **Safe, non-toxic, harmless to skin and odorless.**
- **Non-corrosive, non-staining, no drips or runs.**
- **Easy clean up - wipe off excess when the job is done - or - wait 48 hours & it evaporates.**

PROUDLY MADE IN THE USA

Part No. 44409
Trigger sprayer - quart size (32 oz.)

BLOC - IT ™

Heat absorbing paste

Prevents distortion to light gauge metals during brazing or welding. Protects painted or finished surfaces from adjacent soldering, brazing or welding. Protects rubber and plastic components in ball, dielectric and solenoid valves during soldering.

- **Absorbs surface heat - protects adjoining surfaces that may be damaged by heat.**
- **Safe to use: non-toxic, non-asbestos, odorless and harmless to skin.**
- **Easy to use: apply directly from tube.**
- **Easy to clean: wipe off with cloth or wash off with water. Leaves no stains.**

Part No. 211116
10 oz. net wt. tube

ANTI-SPATTER

Use on MIG nozzles, contact tips, electrode holders, fixtures, welding tips and wheels.

- **Prevents weld spatter adhesion on any surface.**
- **No ozone depleting chemicals.**
- **No silicones, fluorocarbons, or carcinogens.**
- **Flash point above 300° F.**
- **11 oz. net wt. (312g) Contents 20 fluid oz.**

Part No. 812610

PATRIOT WELDING ROD CANISTERS

MADE IN THE USA

Part No. 818014 **for 14"**

Part No. 818018 **for 18"**

- **Each canister provides air tight storage for welding rods. It protects them from moisture, contaminents, and damage.**
- **Constructed of high impact polyethylene - they can be reused for many years.**
- **Threaded cap includes a long lasting neoprene seal.**
- **Great for on-the-go repairs.**

Holds up to 10 pounds of welding rods

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DYNALLOY WIRE SOLDER and SOLDER PASTE

DYNALLOY WIRE SOLDER

- **High quality alloy.**
- **100% new lead*.**
- **Tensile strengths to 16,000 P.S.I.**
- **Low temperature.**

*** DYNALLOY WIRE SOLDERS DO NOT CONTAIN ECONOMY GRADE RECLAIMED LEAD.**

GENERAL PURPOSE
SOLID CORE
1 lb. Spool

Applications: Galvanized iron, copper, steel, nickel plate, nickel alloys, brass, tin plate. May be used with C-Flux No.812690 or Fluxall No. 812691 or most other paste or liquid solder fluxes.
50/50 Tin/Lead Alloy
General Purpose Solder for sweat fittings, sheet metal and other large jobs.
Bond temperature: 420°F /
Tensile strength to 4,500 P.S.I.

Part No. 812621

PLUMBING/WIPING
ACID FLUX CORE
1/8" Diameter / 1 lb. Spool

Applications: Plumbing, copper tubing, tools, gutters, auto radiators, galvanized iron, steel, nickel plate, nickel alloys, brass, tin plate.
40/60 Tin/Lead Alloy -
Acid Core - Self Fluxing
More versatile than 30/70 alloys.
Bond temperature: 360° to 460˚F /
Tensile strength to 4,800 P.S.I.

Part No. 812622

ELECTRICAL
ROSIN FLUX CORE
1/8" Diameter / 1 lb. Spool

Applications: Copper, silver plate, tin plate, gold plate.
40/60 Tin/Lead Alloy
Highly Activated Rosin Core - Self Fluxing, for all electrical and electronic applications.
Low temperature will not distort base material.
Bond temperature: 360˚ to 460˚F /
Tensile strength to 4,800 P.S.I.

Part No. 812623

QUICK DRAW LOW TEMPERATURE SOLDER

ROSIN FLUX CORE
.050" Diameter / 1.3 oz. tube

APPLICATIONS: Ideal for temperature sensitive electrical repairs that require up to 3000 PSI repair strength.
60% Tin/40% Lead

Part No. 812620 6

SILVER BEARING SOLDERING PASTE

- **Five times stronger than ordinary solder.**
- **Better electrical conductivity, stress and vibration resistant.**

Applications: For use with ferrous and non-ferrous metals: steel, cast iron, stainless steel, brass, bronze, nickel, platinum, chrome, monel, galvanized, gold and silver.
Bonding temperature: flows freely at 430°F
Tensile strength: 10,000 to 25,000 P.S.I.

Part No. 211136 3
7.1 gram syringe

COPPER BEARING LEAD FREE SOLDERING PASTE

- **Specially formulated for plumbing applications and heavy duty soldering.**
- **Five times stronger than ordinary solder.**

Applications: For use with copper, brass, stainless steel, nickel and bronze.
Bonding temperature: flows freely at 430°F
Tensile strength: 10,000 to 25,000 P.S.I.

Part No. 211137 3
14.1 gram syringe

ALUMINUM BEARING SOLDERING PASTE

- **Excellent for joining dissimilar gauges of metal, thick or thin.**
- **Finished joint is stronger than base metal used.**
- **Low melting point.**

Applications: For industrial, communication, architectural, engineering and air conditioning industries.
Bonding temperature: flows freely at 395°F
Tensile strength: 28,000 P.S.I.

Part No. 211138 3
7.1 gram syringe

Fast and easy to apply. Works with a match or a lighter.
No mess, no waste, handy syringes.

Syringes contain no lead, cadmium or antimony

Part No. 211139
6 pieces • 3 items • 12047 plastic tray

211136	211137	211138

Numbers in assortment

- **Complete soldering kit includes all three types of soldering syringes in a handy plastic tray.**
- **Convenient for transport to a job site or work area.**

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BRAZING / SOLDERING / SUPPLIES

PROFESSIONAL MODEL TS7000, SELF-IGNITING TORCH

For soldering, brazing, heating, and paint removal.

- Piezzo electronic ignition - instant on, instant off, no flints, batteries, strikers or matches required.
- Built in regulator and adjustable flame control knob.
- Burns propane or MAPP gas - up to 13000 BTU with capability to reach over 3000° F. More heat than any other portable torch.
- Soft solder up to 4" diameter copper pipe with propane gas. Braze and silver solder up to 1-1/4" diameter copper pipe using MAPP gas.

Part No. 213350
Torch Head (gas not included)

PENCIL FLAME TORCH

- Produces a 1/2" diameter pencil flame.
- Brass construction for durability.
- Fuel control knob.

Part No. 213351

WARNING: ALWAYS wear safety goggles, gloves and other appropriate safety items for protection.

SUPER BLASTER TORCH

Ideal for soldering, de-soldering, heat shrinking & terminating, heating, lighting, melting wax and other micro torch applications.

- Wide stable base for hands-free usage.
- Produces a broad yellow or blue pinpoint adjustable wind resistant flame.
- Built in self igniting switch makes it easy to ignite.
- Flame temperature up to 2500° F.
- Refillable butane gas tank runs on a full charge.
- 15/16 oz. butane fuel included.

Part No. 412227

MINI TORCH

Use for: General heating and drying, activating adhesive, bending and forming plastics, preheating flux, heat shrink applications, stretching vinyl and repairing, thawing frozen locks.

- Includes heat reflector especially designed for heat shrink terminals.
- Flameless heat.
- Temperatures up to 650°C (1300°F)

Part No. 412228

DYNALLOY FLUXALL SOLDERING FLUX

- Versatile, general purpose liquid soldering flux.
- Highly active - sweeps away oxides.
- Improves wetting and overall performance of all soft solders.
- Removes easily with hot water.

Part No. 812691
4 fl. oz.

DYNALLOY SILVER BRAZING FLUX PASTE

- For use with Dynalloy "S" and "SC" Brazing Alloy and similar brands.
- For use on cast iron, malleable iron, steel, copper, brass, bronze, nickel, inconel, monel, stainless steel.
- Remains molten and active over a broad temperature range for maximum cleaning action.
- May be removed with hot water.

Part No. 812692
1/2 lb. net wt.

DYNALLOY "A" ALUMINUM FLUX POWDER

- For use on any weldable sheet, wrought and cast forms of aluminum.
- Can be used with other types of aluminum brazing alloys.
- Acts as a temperature indicator since it will melt into a clear liquid at exactly the correct brazing temperature.
- Can be used as a powder or (mixed with a little water) as a paste.

Part No. 812693
1/4 lb. net wt.

C-FLUX PASTE

Pre-cleans, pre-tins

For solder joining copper tubing. Spread on components, assemble, apply heat. When C-FLUX turns silvery, touch solder to the joint and the job is done.

LEAD FREE

- 95/5 tin/antimony - Lead free, no harsh chemicals.
- Contains alloy solder - cleans, fluxes and tins at the same time.
- Fast and easy to use - cleaner, quicker joints with less solder waste, no black, bubbly residue.
- Use on all metals, except aluminum and stainless.
- Melt range of 360°F to 525°F.

Part No. 812690
3 oz. net wt. jar

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WELDING SUPPLIES

BIONIC™ SHIELD

The Bionic™ Shield...is a revolutionary face shield.
Designed for rugged jobs, it's tough where it has to be, yet extremely lightweight and balanced for all-day comfort.

- **Extended top-of-head coverage.**
- **Superior optics and full face visor designed to maximize visibility and protection.**
- **Quick, easy and economical visor replacement.**
- **Built-in chin protection deflects flying particles and debris.**
- **Flips down for hands free availability.**
- **Lightweight, ergonomically designed for long term wear.**
- **Can be comfortably worn with most goggles and respirators.**

Meets ANSI Z87.1-2003 (High Impact) and CAS Z94.3 standards.

Part No. 812661
Replacement Shade Clear (sold separately)

Part No. 812669
Replacement Welding Shade - Shade 5.0 (sold separately)
Infra-dura® Welding shade for cutting operations

Part No. 812668
Clear Lens (included)
Ideal for most indoor work applications

Highly adjustable headgear tilts visor nearer or farther from face depending on preference and application.

Easy-to-set, ratcheting headgear locking mechanism assures comfortable, secure fit.

Shell offers built-in chin protection and extended top-of-head coverage.

Comfortable cell foam on back of headgear.

FACE SHIELDS

Greatest protection available.

- **Meets ANSI Z87.1-1979 specifications.**
- **Positive lock head gear.**
- **2 dimension snap-in locking head gear.**
- **8" x 12" x .040 window (not included).**

Part No. 812556
(Order window separately from chart to the right)

WINDOWS FOR SHIELDS

PART NUMBER	SIZE INCHES	COLOR	USED WITH SHIELD NO.
812558	8 x 12 x .040	Clear	**812556**
812559	8 x 12 x .040	Green-shade B	**812556**
B - Medium Green			

AUTO DARKENING WELDING HELMET

- **Viewing area switches from dark to light within seconds.**
- **Viewing size: 4" x 2-3/8".**
- **Light state shade: 4.**
- **Dark state shade: 9-13.**
- **Mask made of high impact resistant special nylon.**
- **Power supply solar cell & lithium batteries.**
- **UV/IR protection: DIN 15.**
- **CE EN 379, ANSI Z87.1, CSA Z94.3.**

Part No. 812673

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TAPES

3M TEMPERATURE COMPENSATED VINYL ELECTRICAL TAPE

- For year-round use even down to 10°F.
- 9,000 volts per layer, dielectric strength.
- Superior adhesive compound allows smoother unroll and tighter, surer bond.
- Withstands exposure to weather, cold, corrosive fumes, oil, grease and acid.
- Unusual pliability, flexibility and conformability.
- Made in the U.S.A.

Part No. 812202 10
3/4" x 60'

FRICTION TAPE

- Widely used in electrical and maintenance applications.

Part No. 812206
3/4" x 60'

3M SUPER 33+

3M's best vinyl electrical tape

- Wraps & holds in all weather and continues to perform in sub-zero temperatures or in temperatures up to 105°C (220°F).
- Excellent resistance to flame, abrasion, moisture, alkalies, solvents, oil and many acids.

Part No. 812201 10
3/4" x 66'

E-Z SEAL DIELECTRIC COMPOUND TAPE

Specially formulated compound that seals, insulates, weatherproofs and protects any surface.

- Seals tightly from -30° below zero to +150°F.
- Tough vinyl backing stops sagging on vertical applications.
- Unaffected by UV rays, sunlight, water, salt, oil, grease, or battery acid. (ASTM D-543)
- Self adhesive, sticks to any surface.
- Paintable.
- Dielectric strength exceeds 16KV (ASTM D-10000).
- Will not shrink or crack, stays permanently flexible.

Part No. 812218
1 roll
2-1/2" x 10ft.

3M #27 HIGH TEMPERATURE GLASS CLOTH ELECTRICAL TAPE

- Heat resistant fiberglass tape with special pressure sensitive, thermosetting adhesive. (Class B)
- Provides heat stable insulation for hot applications such as furnace and oven controls, motor leads and switches.
- CSA listed: Bulletin 827B.
- UL Recognized Component listing for 150°C. (Guide OANZ2, File E17385)

Part No. 812212
1/2" x 66'

STRETCH & SEAL

Self-fusing silicone tape

Part No. 812204
1" x .020" x 36' Roll
COLOR: Red

Seals electrical connections.
Protects against moisture and corrosion.

Operating Temperature:
-50°F to 392°F Continuous.
-85°F to 500°F Intermittent.
Dielectric Strength: 400 volts.

- Waterproof seal resists corrosion, shock and vibration.
- Conforms to any shape.
- No adhesives; self-vulcanizing; fuses to itself.
- No heat needed, complete bond after 24 hrs. at room temp.

LINERLESS SPLICING TAPE

SELF-BONDING - Fuses into a solid insulation within 24 hrs. of application.

PART NUMBER	DESCRIPTION INCHES x FEET
812210	3/4 x 15
812211	1-1/2 x 15

Seals electrical connections. Protects against moisture & corrosion.

- Easy to apply, no paper liner.
- No heat needed - bonds to itself.
- Conforms to any shape.
- Provides tight seal in temperatures from -50° to 300° F.

LIQUID ELECTRICAL TAPE

Part No. 211211
4 fl. oz.
Brush-on
applicator lid

Tested and approved for initial assembly by one of the leading manufacturers of electric fork lifts. Determined to be the best battery terminal protector and sealer ever used.

- Outperforms regular tape by virtually sealing out all moisture, dirt and corrosion.
- Great for tight places that can't be reached with ordinary tape.
- Sticks to metal, rubber, vinyl & plastic.
- Forms a tough, flexible, black coating that dries at room temperature in just 5 minutes.
- Will not become brittle and crack like similar PVC based competitive brands.

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TAPES

3M #35 ELECTRICAL COLOR CODING TAPE

Color coding of motor leads, circuits, piping systems, splices, terminations and phase identification.

- **7-mil. flame retardant, weather resistant, vinyl.**
- **Excellent electrical insulating properties.**
- **Resists weather, abrasion, corrosion, alkalies and acids.**
- **Pressure-sensitive, rubber based adhesive.**

COLOR	1/2" x 20' ROLL	3/4" x 66' ROLL
Red	812741R	812742R
Yellow	812741Y	812742Y
Blue	812741BL	812742BL
White	812741W	812742W
Green	812741G	812742G
Orange	812741OR	812742OR
6 pc. Asst.	812003	812004
includes 1 roll of each color. (above #'s only)		
Purple		812742P
Brown		812742BR

RUBBER AMALGAMATING WRAP

A UNIQUE, Durable, Self-Sealing, Flexible, Weather Resistant Plastic Wrap with Universal applications and superb performance, solving problems maintenance professionals experience when using traditional wraps!!

LONG SHELF LIFE!

1" x 120"

— SAVES TIME and LABOR COST —

- **Easy to unroll and use.**
- **Requires no heat or open flame.**
- **Conforms easily to irregular or unusual shapes.**

— RELIABLE and DURABLE —

- **No gaps or open spaces.**
- **Excellent tensile strength.**
- **Resistant to water, weather, U-V rays, ozone & chemicals.**

— VERSATILE —

- **Ideal for electrical and plumbing repairs.**
- **Used by utilities, refineries, hospitals, food services, nursing homes, general MRO's as well as fleet and auto. shops.**
- **Excellent for high-voltage applications.**
- **Use indoors or outdoors – above or below ground.**
- **Stands up to pressure of 100 PSI with 5-6 wraps.**

ASTM TESTED from -40°F to +267°F

PART NUMBER	SIZE (INCHES)	COLOR	QTY
812241	1 x 120	Black	6

TEFLON THREAD SEALING TAPE

Seals permanently, yet easy to disassemble.

Seals & lubricates all pipe fittings, including joints of dissimilar materials. Use on air, steam, oxygen, hydraulic, gas and refrigerant lines.

- **Withstands pressures to 10,000 psi.**
- **Temperature range: –400°F to +600°F**
- **Not affected by acids & gases.**
- **Meets MIL-T-27730A.**
- **Non-flammable, non-toxic, will not dry out.**

INDUSTRIAL HI-DENSITY

- **Color: Pink.**
- **Density: 1.20.**
- **Thickness: .0035-.0037.**

PART NUMBER	WIDTH (INCHES)	LENGTH (INCHES)	QTY
53720	1/2	520	6
53721	3/4	520	6

STANDARD LOW-DENSITY

- **Color: White.**
- **Density: .700.**
- **Thickness: .0032-.0034.**

PART NUMBER	WIDTH (INCHES)	LENGTH (INCHES)	QTY
53718	1/2	520	6
53719	3/4	520	6

For Liquid Form Thread Sealant with Teflon, see catalog section C11.

PREMIUM HEAVY DUTY, PRESSURE SENSITIVE PLASTIC COATED CLOTH TAPE

A high quality tape which is used for repairing, sealing, waterproofing and reinforcing seams.

For Use On The Following:

- **School buses.**
- **Truck seats.**

Size: 2" x 60 yds.

PART NUMBER	COLOR
812972	Gray
812973	Black
812974	Burgundy

Size: 3" x 60 yds.

PART NUMBER	COLOR
812805	Green
812803	Brown
812804	Gray
812801	Black
812806	Burgundy
812802	Blue

Size: 4" x 60 yds.

PART NUMBER	COLOR
812391	Green
812392	Brown
812393	Gray
812394	Black

DUCT AND SEAT REPAIR TAPE

- **A rugged, laminated economical brand cloth tape.**
- **Assures airtight, waterproof joints.**
- **2" x 60 yds.**

PART NUMBER	COLOR
812207	Silver
813250	Black
813251	Red
813252	Orange

Other colors are available on a Special Order Basis. Must order in case lots of 24 each. Colors available are: Beige, Blue, Burgundy, Brown, Green, Olive, Purple, White or Yellow.

3M SCOTCH AUTOMOTIVE TRANSPARENT DUCT TAPE

- **Makes repairs less obvious and virtually invisible.**
- **Will not fall apart in extreme temperatures and harsh UV conditions.**
- **Holds tight, strong & long lasting.**
- **1.88" x 45 ft.**
- **Color: Clear.**

Part No. 903451

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TAPES

GORILLA TAPE

Gorilla Tough on a Roll! Taking Tape to a Tougher Extreme.

Part No. 813263
2.88 in. x 30 yds.

Part No. 813260
1.88 in. x 35 yds.

• Bonds • Protects • Holds • Repairs • Patches • Seals •

- **Works especially well on rough, porous or imperfect surfaces.**
- **Black exterior withstands elements better. Tighter barrier against moisture and higher UV qualities.**
- **Twice the grip of duct tape.**

Sticks to brick, stucco & plaster.

See page C11-3 for "GORILLA GLUE"

- **Tough All-Weather Shell**
- **Strong reinforced tight weave backing 17 mils thick**
- **Double-thick adhesive**

3M POST-IT REMOVABLE LABELING TAPE

- **A white, general purpose labeling tape that sticks firmly but removes easily.**
- **Use for shelf and bin marking, package identification, labeling boxes, or file folders.**
- **Easy to write or type on.**
- **Works great for correction and cover up work.**

PART NUMBER	SIZE
906951	2" x 36 yds.

Important - May lift correctable ink from freshly typed characters. Test before using on questionable surfaces.

CARTON SEALING TAPE

Pistol Grip Dispenser
Part No. 812245

- **Waterproof plastic film.**
- **2'' x 55 yds.**
- **Self adhesive.**

Meets UPS and postal requirements.

PART NUMBER	COLOR
812243	Tan
812244	Clear

3M Premium Heavy Duty: Part No. 906640 - Clear

3M BLUE PAINTER'S TAPE

The best choice for most painting projects.

- **Removes cleanly in challenging situations, including glass exposed to direct sunlight.**
- **No adhesive transfer or surface damage for up to 14 days.**

Part No. 906820
2'' x 60 yds.

REINFORCED STRAPPING TAPE

- **Super strong, multi-layer, bi-directional strapping tape.**
- **Pressure sensitive adhesive for quick, sure sticking.**

Part No. 812208
3/4'' x 60 yds.

SCOTCH AUTOMOTIVE REFINISHING MASKING TAPE NO. 233

Professional masking tape for all automotive refinishing.

- **Conformable - hugs curves and contours.**
- **Goes on quick and easy - sticks at a touch and stays put.**

PART NUMBER	SIZE/ROLL INCHES/YARDS
906330	1/4 x 60
906334	3/4 x 60
906336	1 x 60
906338	1-1/2 x 60
906340	2 x 60

MASKING TAPE - Utility Grade

- **General purpose paper tape for holding, bundling, sealing & non-critical masking.**
- **Not recommended for auto body painting, heat lamps or paint ovens.**

Part No. 812203 5
1''x 60 yds.

Part No. 812205 5
2'' x 60 yds.

ALUMINUM FOIL TAPE

- **For repair of truck bodies.**
- **Hi-Temp exhaust sealing, and duct wrap.**
- **High tack rubber based adhesive.**
- **4 mil thick, soft foil.**

Part No. 812390
3" x 50 yds. 4 mil

ALUMINUM FOIL TAPE w/BUTYL RUBBER LINER

- **For repair of truck bodies.**
- **Use as back-up for body repairing.**
- **High tack rubber based adhesive.**

Part No. 812968
4" x 30 ft. with butyl rubber liner

D14

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TAPES

For use in hazardous areas in factories, state, city and federal agencies, warehouses, construction sites, etc.

HAZARD STRIPE TAPE

Part No. 812213
2" x 18 yd. roll

- **OSHA approved (OSHA 1910.1449(A)).**
- **Yellow and black stripe - universally recognized as caution and physical hazard.**
- **Pressure sensitive vinyl - sticks to any clean dry surface.**
- **Fade resistant.**
- **Temperature and abrasion proof, outlasts paint.**
- **Ready to use - no backing to peel off.**

BARRICADE TAPES

- **Available either blank or with "caution" message imprinted in black.**
- **Durable, lightweight yellow polyethylene .003 mil thick.**
- **Non-adhesive.**
- **Weatherproof and chemical resistant.**
- **Packed in a handy dispenser box.**

"CAUTION" Tape
Part No. 812214
3" x 1000 ft. roll

SAFETY-WALK/ANTI-SLIP SURFACING ROLLS

- **New conformable anti-slip surfacing material can be bent, rolled or angled to fit any uneven or smooth surface. Can even use a rubber mallet to apply to diamond plate steel.**
- **Black color. Use on stairs, showers, boats, trucks, etc.**
- **Sticks to any clean, dry surface. Provides a positive grip when exposed to water, grease or oil.**

PART NUMBER	3M NUMBER	SIZE INCHES/FEET
907510	07510	2 x 60
907520	07520	4 x 60
907530	07530	6 x 60

SAF-STEP NON-SLIP TAPE

An economical brand of non-slip tape with a rugged aluminum oxide grit surface that's bonded to the tape and is impervious to water, grease, oil, detergents and solvents.

Black Only

PART NUMBER	SIZE IN. x FT.
812395	1 x 60
812396	2 x 60
812397	4 x 60
812398	6 x 60

For Use On The Following:

- **Stairs & ladders.**
- **Factories & repair facilities.**
- **Restaurant kitchens.**
- **Truck beds & steps.**
- **Ramps & dock lifts.**
- **Machine shops & shipping areas.**
- **Service stations.**

Easy To Apply:
Just peel off the backing and press in place.
Adheres instantly to most clean, dry, oil-free surfaces.

"WEATHER-TITE" SEAL FOAM TAPE

Seals out water, dust, vibration and shock.

Weather-Tite is extra thick for extra shock protection.

- **Multi-use.**
- **Unique "Memory Foam" returns tape to original thickness after compression.**
- **High strength, self-sticking adhesive assures tight seal.**

USES INCLUDE:

- **Sealing garage doors.**
- **Weather-proofing seal for pick-up & camper caps.**
- **Forming concrete joint seams.**
- **Weather-proofing & water-proofing any two similar or dissimilar surfaces together.**

Part No. 812126
1-1/2" x 30', Universal 3/16" Thick

KWIK-SEAL SPONGE RUBBER WEATHERSTRIP

Peel back tape

Press on it sticks!

● Self-adhesive ● Easy to use ● Strong, durable bond ● Has a "memory" for tight, positive sealing ●

A self-adhesive sponge rubber weatherstrip that is easy-to-apply for automotive and industrial applications. Use on boats, refrigerators, doors and windows-almost anywhere that a permanent, waterproof flexible seal is needed. Available in convenient 50 foot rolls.

PART NUMBER	THICKNESS INCHES	WIDTH INCHES	PART NUMBER	THICKNESS INCHES	WIDTH INCHES
717301	5/16	3/8	**717304**	7/16	3/8
717302	5/16	1/2	**717305**	7/16	1/2
717303	5/16	3/4	**717306**	7/16	3/4

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TAPES

OE BLACK/DOUBLE SIDED TAPE

Solve your side mounting repair problems.

- **Works quickly, easily and inexpensively.**

Part No. 812216 3 1/2'' x 54'

PRESSURE SENSITIVE, TWO SIDED FOAM TAPE

Used to mount signs, pictures, trim, accessories, decorations, etc.

- **Closed cell polyethylene carrier is resistant to freeze/cracking and condensation; essentially a flexible solid.**
- **Rubber based adhesive bonds immediately.**
- **Bonds to paper, aluminum, steel, glass, ceramic, rubber, cloth, ridged vinyl, painted surfaces, etc.**

PART NUMBER	WIDTH INCH	WIDTH (MM)	THICKNESS INCH	THICKNESS (MM)	LENGTH PER ROLL FEET	LENGTH PER ROLL (MM)
812997	1/2	(12.70)	1/32	(0.79)	216	(65,836.8)
812998	3/4	(19.00)	1/32	(0.79)	216	(65,836.8)
812999	1	(25.40)	1/32	(0.79)	216	(65,836.8)

VELCRO® HOOK AND LOOP FASTENING TAPE

Used by body shops, RV dealers, airlines, hospitals, marinas and more.

Regular Duty: **Sticky Back® adhesive bonds to smooth surfaces such as glass, metal and most plastics (except PVC).**

Industrial Strength: **50% stronger than Sticky Back®. Sticks on more surfaces, especially plastics. Use indoor & outdoor. Waterproof, even when submerged.**

- **Pressure sensitive adhesive backing.**
- **Heavy duty nylon construction.**
- **Immune to vibration.**

PART NUMBER	COLOR	SIZE FT. X IN.	ADHESIVE TYPE
312140	Black	5 x 3/4	Regular duty
312139	Black	5 x 2	Industrial strength

HOOK and LOOP PACKED TOGETHER

3M DUAL LOCK RECLOSABLE FASTENING SYSTEM

5 times more holding power than hook and loop fasteners.

Used on cellular phones, headlight covers, window louvers, van conversions, sunshades, boat covers, tackle boxes, ski accessories, computer battery packs, access panels, acoustical panels, furniture trim, air conditioner covers and building attachments.

When Dual Lock reclosable fasteners are pressed together, hundreds of mushroom-shaped stems interlock with one another. An audible snap indicates the fastener is locked.

Part No. 312190
1'' x 4.9 yds.

- **Mates to itself.**
- **Can open and close more than 1,000 times during their life.**
- **Clear color blends with all backgrounds.**
- **VHB (very high bond) pressure-sensitive, UV resistant, adhesive backing. Can also be stapled or sewn.**

VELCRO® CABLE WRAPS

For quick cable mounting or bundling.

- **Easy installation - Only requires a screw for mounting.**
- **One piece construction, no back-to-back loop & hook.**
- **Reusable and adjustable, can be reused up to 200 times.**
- **Roll dispenser - No lost cables, just cut off number of cable wraps needed.**

PART NUMBER	COLOR	APPROX.BUNDLE DIAMETER-INCHES	OVERALL LENGTH INCHES	WIDTH INCHES	QTY
210997	Black	2	8	1/2	25

3M GREEN MASKING TAPE

Ideal for paint masking applications with temperatures up to 250°F.

- **Excellent conformability and transfer resistance.**
- **Clean removal on rubber molding & painted steel even after 30 minutes.**
- **Resistant to paint bleed-through.**
- **Temperature, UV & solvent resistant.**

PART NUMBER	SIZE INCHES/FEET
902633	3/4 x 60
902634	2 x 60

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GARAGE EXHAUST TUBING and ACCESSORIES

MEETS OSHA STANDARDS FOR GARAGE EXHAUST SYSTEMS

OUR garage exhaust tubing is specially compounded to withstand heat to 600°F. 3" size withstands exhaust from catalytic converters.

• Easy to use • Saves on heating bills • Complies with OSHA standards •

THESE MATCHED SETS INCLUDE ALL PIECES NECESSARY FOR A COMPLETE SYSTEM FOR BOTH SINGLE AND DUAL EXHAUSTS.

- **A flexible way to economically meet all of your needs.**
- **Sets include:**
  - **2-44'' tubing lengths.**
  - **1-6' tubing length.**
  - **Y-connector for dual exhaust.**
  - **2 tailpipe adapters.**
  - **Splice connector for single exhaust.**

*** Use 1-44'' length, splice, the 6 ft. length, and 1 adapter for single exhaust systems.**

Complete Set

PART NUMBER	TUBING SIZE INCHES
41902	2-1/2
41903	3

3" size recommended for cars equipped with catalytic converters. Meets OSHA specifications for vehicles under 200 hp.

*FLARELOCK GARAGE EXHAUST TUBING

Tubing is specially compounded to withstand heat to **600**°F.

PART NUMBER	CENTER HOSE I.D. STRAIGHT END	HOSE I.D. FLARED END	APPLICATION
41905	2-1/2"	2-11/16"	Compact car
41906	3"	3-1/16"	Passenger car
41923	3-1/2"	3-7/16"	Small truck, Van
41917	4"	4-13/16"	Large gas truck
41924**	5"	5"	Diesel truck

ONE END ONLY IS FLARED

SOLD IN 11 FT. LENGTHS

*** To prolong the life of the hose, always use an adapter and allow the hose to cool after each use.**
**** Note Part No. 41924 - Not Flared - 5" on both ends**

"STRAIGHT" TAILPIPE ADAPTERS

- **Fits most passenger cars.**
- **For late model cars - special compound withstands heat of catalytic converters.**

PART NUMBER	FITS TAILPIPE	ADAPTER FITS THESE HOSES
41910	2"	41905, 41906, 41923
41919	2-1/2"	41905, 41906, 41923
41925	3"	41905, 41906, 41923
41926	3-1/2"	41917, 41923, 41924
41927	Diesel Stack	41917, 41924

GARAGE DOOR FITTINGS

2-1/2" NEOPRENE

Part No. 41907
Opening
I.D.: 2-15/16"
O.D.: 3-7/16"

3" ALUMINUM

Part No. 41908
Opening
I.D.: 3-5/8"
O.D.: 5-1/4"

CONNECTORS

SPLICES

For single exhaust systems.

PART NUMBER	FITS HOSE I.D. INCHES
41920	2-1/2
41921	3

Y-SHAPED

For dual exhaust systems.

PART NUMBER	FITS HOSE I.D. INCHES
41915	2-1/2
41916	3

ADJUSTABLE ADAPTERS

- **Fits tailpipes with larger decorative ends.**
- **Has adapter bell with brass snaps to adjust for outlets up to 5-1/2 O.D.**

PART NUMBER	FITS TAILPIPE	ADAPTER FITS THESE HOSES
41912	All	41905
41913	All	41906

TWIN TAILPIPE ADAPTERS (OVAL)

PART NUMBER	FITS HOSE I.D. (INCHES)	DESCRIPTION
41922	3 & 4	2" x 5-1/2" Fits up to 2" in dia.
41933	3 & 4	3" x 8" Fits up to 3" in dia.

CRUSHPROOF™ DYNAMOMETER HOSE and ADAPTERS

This unique exhaust hose can withstand the high temperature of a dynamometer when used with a fan-assisted system. The popularity of dynamometers are steadily increasing for both tailpipe emissions testing and standard diagnostic testing. The specially designed hose and adapters are made from a blend of rubber that can withstand temperatures up to 700°F with intermittent use. This is the highest temperature rating available.

PART NUMBER	DESCRIPTION	I.D.	LGTH
41929*	Dyno Hose 4"		11'
41930	Straight Adapter Fits tailpipes up to 3" O.D.	3-1/2"	15"
41931	Oval Adapter Fits twin 2" tailpipes	3" x 6"	10"
41934	Aluminum Door Port 4"	--	--
41935	Splice Connector 4"	--	--
41936	"Y" Connector 4"	--	--

*** To prolong the life of the hose, always use an adapter and allow the hose to cool after each use.**

Aluminum Accessories

Part No. 41934
Opening
I.D.: 5"
O.D.: 5-3/8"

Adapters feature a probe hole for dynamometer testing!

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CLEANING SUPPLIES/MISC. BRUSHES

TRUCK WASH BRUSH

- Polypropylene fibers.
- Flagged safety orange fill.
- Foamed plastic block - will not rot or warp.
- Protective bumper.
- 9-1/2" x 2-3/4" block.
- 3" trim length.
- 2 handle holes (threaded or tapered).
- Made in U.S.A.

PART NUMBER	DESCRIPTION - INCHES
812413	Brush only, NO HANDLE
812414	Brush & 60" threaded wood handle

BROWN PALMYRA WHEEL BRUSHES

- Stiff bristles for heavy duty scrubbing.
- All have big 4" x 4" brushing area.

PART NUMBER	HANDLE SIZE INCHES
812233	8-1/2
812235	20

FLO-THRU PARTS BRUSH

Attaches to parts washer nozzle. Solvent flows through brush as you clean. Continuously floods away grime.

- High impact nylon handle.
- 1/2" I.D. clear, flexible solvent proof tubing.
- Fits any parts washer with flexible nozzle.

Part No. 812164

DETAILERS BRUSH

- Nylon bristles.
- Angled handle.
- 6-3/4" overall length.

Part No. 812158

DETAILERS BRUSH

- Horsehair bristles.
- Straight handle.
- 6" overall length.

Part No. 812159

UTILITY/SCRATCH BRUSHES

Ideal for non-marring finishing.

- 1-3/8" x 1/4" brush size.
- 1/2" trim length.
- Straight brass wire .006.
- 7-1/4" overall length.
- Wooden handle.
- 2 per box.

BRASS

Part No. 213699 2

PLUMBERS BRUSHES

For cleaning copper or brass fittings and tubing. Also used to clean light sockets.

- High carbon steel wire.
- 6-1/2" long.
- Durable wire handle.

PART NUMBER	QTY	PIPE / TUBE I.D.	PIPE / TUBE O.D.
812730	2	1/4	3/8
812731	2	3/8	1/2
812732	2	1/2	5/8
812733	2	3/4	7/8
812734	2	1	1-1/8
812735	2	1-1/4	1-3/8

TIRE CLEANING BRUSH

- Brass wire - will never rust
- High impact handle and head.
- Lightweight with large 2-3/4" x 2-1/8" brush.

Part No. 812407

GRILL, SPOKE, MAG WHEEL & BOTTLE BRUSH

- Soft tampico fibers.
- 12" brush length - 17" overall.

Part No. 812227

SOFT WHITE TAMPICO WHEEL BRUSHES

- Scratch free - soft fiber bristles for lighter work.
- All have big 4" x 4" brushing area.

PART NUMBER	HANDLE SIZE INCHES
812236	8-1/2
812238	20

PARTS CLEANING BRUSH

- Lacquered hardwood handle.
- Finest parts cleaning brush made.
- No. 10 size.
- 1-1/16" thick, 2-1/2" long bristles.
- Tough "Tynex Nylon" bristles are layer cut so you can clean those hidden hard-to reach areas.

Part No. 812165

ACID BRUSH

- 100% horsehair filled.
- Tin plated handle.
- 6-1/8" overall length.
- 9/16" x 7/8" brush size.

Part No. 812166

RADIATOR REPAIR/BRUSH

- 1-1/2" brush length.
- 7" overall length.
- Twisted wire handle.
- Hog bristles.

Part No. 812226

UTILITY/SCRATCH BRUSHES

Removes rust, scale, paint, solder, etc.

- 1-3/8" x 1/4" brush size.
- 1/2" trim length.
- 7-1/4" overall length.
- Plastic handle.
- 2 per box.

STAINLESS STEEL

Part No. 213698 2

UTILITY BRUSHES

BRASS & STAINLESS STEEL

Removes dirt, corrosion and paint.

- Excellent for cleaning and polishing hard to get at surfaces.
- Cleans welded and soldered joints, welding tips and battery terminals.
- Brass brush is used for non-marring finishing.
- Overall length 7".
- 2 brushes, one of each type, per box.

Part No. 213690

For Wire Brushes & Wheels, See Catalog Group D10.

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CLEANING SUPPLIES/FLOOR

PLASTIC MOP WRINGER

- Molded of high impact resistant plastic.
- Heavy ribbed back plate for added strength.
- High strength steel handle permanently riveted to shaft.
- For use with 16 oz. to 40 oz. mops.
- All steel parts have a baked enamel finish for rust and corrosion protection.

Part No. 412252

35 QT. PLASTIC BUCKET

- Molded of high impact resistant plastic.
- Reinforced top rim.
- Will not rust.
- Double handle.
- Ball bearing casters allow easy mobility.

Part No. 412253

Part No. 412276 Bucket/Wringer Combo Set

12" WINDOW SQUEEGEE

Perfect for Car Detailers, Window Cleaners, Schools and Hospitals.

- Soft rubber blade.
- Hard rubber frame.
- Steel handle.

Part No. 412270
12" Squeegee

Part No. 412269
5' Handle

REPLACEMENT MOP HEAD & HANDLE

- Cotton head withstands abrasion from rough surfaces and chemical reaction from cleaning solutions.
- Tightly twisted strands keep fibers from unraveling.
- Excellent for use on concrete, wood, etc.
- Good water absorption.

Part No. 412259
16 oz. Mop Head

Part No. 412260
24 oz. Mop Head

Part No. 412275
63" Hardwood handle with plated metal head.

FLOOR SQUEEGEE

REPLACEMENT RUBBER STRIPS
(RUBBER STRIP ONLY)

• Length: 24'' or 36'' • Height: 2-1/4'' • Thickness: 9/32'' •

Part No. 412265
24'' Refill

Part No. 412266
36" Refill

IDEAL FOR:
• Firehouses • Tennis courts • Garages • Restaurants • Driveways • Roofing jobs •
• Rubber resists chemicals, oil and grease • Lusterplated frame, screws and nuts resist rust •

COMPLETE FLOOR SQUEEGEE ASSEMBLIES
(SQUEEGEE AND HANDLE)

PART NUMBER	DESCRIPTION
412261	24" squeegee (412256) equipped with 54" hardwood handle (412258)
412262	36" squeegee (412257) equipped with 54" hardwood handle (412258)

"CAUTION WET FLOOR" FLOOR SIGN

- Bright yellow plastic warning sign alerts to potential hazard.
- Protects your business form expensive insurance claims.
- Necessary for unexpected spills, restroom areas, or anywhere.
- Avoid the danger of possible falls.
- 28" height - message on both sides.
- Folds flat for easy storage.

Part No. 415147

BUS BRUSH / BROOM

- The smaller block and shorter handle makes this brush ideal for cleaning between seats and aisles of buses.
- Silver-grey flagged plastic (solvent resistant).
- Lacquered hardwood block with one threaded handle hole.
- HANDLE included.

PART NUMBER	BLOCK SIZE	TRIM LENGTH
812880	10 x 2-1/2	2-5/8
	Includes 15/16 x 48 wood handle (812881)	

EXTENDABLE HANDLE BUS BROOMS

8" Angle Broom with Tuff Steel Handle

- Extends from 33" to 52".

Part No.
812888

10" Soft Bristle Poly Brush with Painted Steel Handle

- Extends from 30" to 54".

Part No.
812890

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CLEANING SUPPLIES/FLOOR

24” BORDER-PRO FLOOR SWEEP

- One-bolt assembly design that locks securely into the handle grooves.
- Combination of a flagged tip, silver-grey border filament with a stiff center of dual diameter black polypropylene fibers.
- 3” trim.
- HANDLES sold separately:
  812876 - 15/16” dia. / 60” length
  812883 - 1-1/8” dia. / 60” length

Part No. 812875

24” STREET-PRO FLOOR SWEEP

- Extra duty, long trim, dark brown polypropylene filaments in a heavy duty wood block.
- Excellent for moving heavy debris.
- 4-1/2” trim.
- HANDLES sold separately:
  812876 - 15/16” dia. / 60” length
  812883 - 1-1/8” dia. / 60” length

Part No. 812882

PRO SAF-T-SWEEP HANDLES

- Natural wood.

PART NUMBER	LENGTH (INCHES)	DIA. (INCHES)
812876	60	15/16
812883	60	1-1/8

FLOOR SWEEPS (Firm)

- Polypropylene fibers.
- Long lasting.
- Clear lacquered hardwood head.
- Washable fibers.

Part No. 812403

36” POLYPROPYLENE FLOOR BRUSH

- Hardwood block with two threaded handle holes.
- Handle sold separately.
- Fine sweep.
- Gray, polypropylene bristles are flagged for sweeping dust and fine particles on smooth surfaces.
- Trim 3”.

Part No. 812891

METAL TIPPED WOOD HANDLES

- Wood handle with metal threaded tip, provides additional strength.

PART NUMBER	LENGTH (INCHES)	DIA. (INCHES)
812878	60	15/16
812877	72	15/16

FIBERGLASS HANDLE

- Features a honeycomb core.
- Fiberglass handles are stronger than wood or metal.
- Virtually indestructible.
- All white for food service industry.

PART NUMBER	LENGTH (INCHES)	DIA. (INCHES)
812879	60	1

SAF-T-SWEEP (Med. Soft)

- High quality polypropylene bristles.
- Unaffected by all chemical solutions, oils, greases, detergents, etc.
- Super lightweight design made of high impact polycarbonate.
- Heavy duty galvanized lightweight steel channel.

Part No. 812401

GARAGE SWEEP
(Extra Firm)

- Select palmyra fiber.
- Clear lacquered hardwood with two handle holes.
- Super heavy duty construction.
- Metal brace included with broom.

Part No. 812405

BLACK TAMPICO FIBER
(Firm)

- Each tuft individually anchored.
- Clear lacquered hardwood head.

Part No. 812404

UPRIGHT BROOM

NATURAL FIBER
Warehouse broom for heavy-duty sweeping. Heavy metal band with four rows of stitching for strength and durability.
42” long. 1-1/8” dia. lacquered wood handle.

Part No. 812886

HEAVY DUTY BROOM HANDLE BRACE

- Brace is all steel and extends eight inches on each side of handle.
- Attaches to block with wood screws and wraps around handle and is held in place by wing nuts.

Part No. 812884

DUST BRUSH

- Clear lacquered hardwood.
- Large 8” brush.
- Black tampico fiber.
- Each tuft anchored individually.

Part No. 812409

WHISK BROOM

- 10” corn fibers.
- Extra quality 3 sew design.

Part No. 812225

RUBBER DUST PAN

HEAVY DUTY
Thin front edge for improved dirt pickup. Molded-in serrated teeth for counter duster cleaning.
Charcoal.
12-1/4” wide.

Part No. 812885

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PAINT BRUSHES

WHITE CHINA BRISTLE PAINT BRUSHES

Finest natural bristles.

- Chisel trim.
- Plastic handle.
- Used for oil base paints, varnishes & stains.

BEST

PART NUMBER	SIZE INCHES	LENGTH INCHES	THICKNESS INCHES
412285	1	2	7/16
412286	1-1/2	2	1/2
412287	2	2-1/4	9/16
412288	3	2-1/2	11/16

POLYESTER BRISTLE PAINT BRUSHES

Excellent synthetic bristles.

- Chisel trim.
- Plastic handle.
- Used for all paints - latex, oil & enamels.

BETTER

PART NUMBER	SIZE INCHES	LENGTH INCHES	THICKNESS INCHES
412293	3	2-1/2	11/16
412294	4	2-3/4	7/8

ECONOMY QUALITY PAINT BRUSHES

- Square trim.
- Plastic handle.
- Used for all paints - latex, oil & enamels.

GOOD

PART NUMBER	SIZE INCHES
412282	1
412283	1-1/2
412284	2

FOAM BRUSHES

- Use for enamel, latex, oil paints, stains and varnishes.
- Smoothes out paint.
- Eliminates brush marks.
- No loose bristles to contend with.
- Achieve reliable, professional results.

PART NUMBER	SIZE INCHES	QTY
412278	1	48
412280	2	48

Not recommended for shellac or lacquer.

CAULKING GUN

- Sturdy heavy gauge metal.
- Heavy duty two-lever handle.
- Uses any standard cartridge.

Part No. 113130

9" ROLLER

- For all paints.
- Best quality.
- For medium surfaces.

Part No. 412297

ROLLER FRAME

- 5 wire case.
- Plastic handle.

Part No. 412295

PAINT TRAY

- Heavy duty plastic.

Part No. 412296

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AUTOMOTIVE APPEARANCE PRODUCTS

Our high quality squeegees keep scrubbing and working long after other squeegees wear out

20" SQUEEGEE

- Unique Flobond™ process creates tough nylon mesh that will not tear or loosen.
- 8" head made with exclusive Flobond™ process for long life.
- 20" handle is solid high impact plastic, and will not warp, bend, break, or splinter like wood or hollow plastic handles.
- Quality-made in U.S.A.

Part No. 412273 12

Replacement head available separately order **Part No. 412274.**

24" - 41" TELESCOPING SQUEEGEE

- Adjusts to any length between 24" and 41". A twist of the wrist locks squeegee in place.
- Will not bend or twist loose.
- Same quality features as 24" squeegee.
- Perfect for cars, buses, RV's and trucks.

Part No. 412272

TACK CLOTH - (SUPER TACKY)

Traps all dirt, dust & lint.

- Super soft.
- Will not harden.
- Static free.
- Leaves no residue.
- Individually sealed packs for guaranteed freshness.
- Super tacky.
- Will not dry out.
- Contains no waxes or silicones.
- Tan color.
- Size: 16" x 20", folded to 4-1/2" x 4-1/2".

Part No. 717375 (48)

7-1/2" ROUND COMPOUNDING PAD

- 100% 4 ply, virgin wool yarn pile - 1-1/4" height.
- Round edge prevents burning of painted surfaces.
- Recessed arbor hole fits contours of standard plates.
- Installation is easy, fast and secure.
- Can be cleaned or washed for reuse.

OUR OWN BRAND

PART NUMBER	PILE SIZE INCHES	QTY
213100	1	6

PROFESSIONAL WASH MITT

- Heavy duty and long wearing.
- Highly absorbent, non-scratching.
- Double faced, 8" x 11" with cuff.
- 2 per bag.

Part No. 213108

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PAPER/PLASTIC

BLUE WIPERS ON A ROLL

- Extra heavy duty, 4 ply nylon reinforced.
- Good for ALL wiping needs.
- 9-3/4" x 275 ft.
- Comparable to the leading competitors at LESS COST!
- Traps dirt and absorbs liquids quickly.

Part No. 415133
6 rolls per case - **(CASE LOTS ONLY)**

Dispenser available separately, order Part No. 415121.

BLUE WIPER DISPENSER

- Color: White.
- 9-3/4" small roll dispenser width.
- Use with Part No. 415133.

Part No. 415121

KRAFT HAND TOWELS

- White roll towels.
- Large 8" x 350 ft. per roll.

(CASE LOTS ONLY)

12 ROLLS PER CASE	**HEAVY DUTY** 12 ROLLS PER CASE
Part No. 415145	**Part No. 415149**

Dispenser available separately, order Part No. 415146.

TOWEL DISPENSER

- Perfect for our Kraft Hand Towels.
- Easy to load.
- Serrated edge for easy tearing.
- 10-1/2" x 10" x 10".

Part No. 415146

C-FOLD TOWELS

- Deep embossing for bulk and absorbency.
- 150 towels per sleeve.
- 2400 towels per case.

	HEAVY DUTY
Big and soft 10-1/4" x 12-3/4".	Big and soft 10-1/4" x 13-1/4".
Part No. 415128	**Part No. 415148**

Dispenser available separately, order Part No. 415129.

C-FOLD TOWEL DISPENSER

- Color: White.
- 15" x 11" x 4-3/4".
- Includes wall mounting screws & keys.

Part No. 415129

WYPALL® X60 REINFORCED WIPERS

Ideal scrap rag replacement. Unique technology combines purity of pulp fibers with reinforced strength to deliver softness plus solvent strength.

COLOR: WHITE
Part No. 415123
1,100 wipers per roll
Sheet Size: 12-1/2" x 13-2/5"

WYPALL® X80 CLOTH TOWELS

Great Rag Replacement!

Designed to feel like cloth and work even better. Patented technology allows this thick, strong towel to absorb oil and water faster than rags or shop towels. Retains strength through harsh use, even when used with solvents.

COLOR: RED
Part No. 415124
475 towels per roll
Sheet Size: 12-1/2" x 13-2/5"

DISPOSABLE SHOP TOWELS

Part No. 812124

- Super thick-bonded celus; cloth-like softness.
- 9" x 17".
- Pop-up dispenser pak. Dispenses one at a time.
- Highly absorbent.
- Quickly absorbs grease, oil, chemicals and ink.
- 150 per box, 6 boxes per case (900).
- Available by the box or case.

MICROFIBER CLEANING CLOTHS

All-Purpose Cleaning

Thousands of polyester/polyamide blend, microscopic fibers pick up and hold dust, dirt and grime. Hypoallergenic, nonabrasive, lint free, green color cloths eliminate streaking and absorb nearly seven times their own weight in liquid. Machine washable.

Part No. 415122
12 cloths per case
Sheet Size: 16" x 16"

KIM TOWELS "BRAG BOX"

Part No. 415132

- Super strong, absorbent, brown colored, multi-ply wipers.
- Giant size (16-1/2" x 12-1/2") for general rag replacement.
- Wipes water, oil or almost any solvent.
- Offers the size and bulk of rags, but superior performance.
- 176 wipes per double-sided dispensing carton.
- Made by Kimberly-Clark.

SCOTT® TOWELS & RAGS IN A BOX

SCOTT® SHOP TOWELS
200 towels per box
COLOR: BLUE
Part No. 415125

- Out performs cloth rags and other wipes.
- Holds six times it's weight in liquids.
- Sheet size 10" x 14".
- Economical, heavy duty, remarkably lint free.
- Handles tough messes like grease and oil.

Convenient carry box for the worksite or to leave on your tool box.

SCOTT® RAGS
200 rags per box
COLOR: WHITE
Part No. 415126

DISPOSABLE WIPERS

- Lint free, white color.
- 13" x 15", 3 ply thickness.
- Two direction - reinforced - flat packed.
- Use with soap and water.
- Excellent on glass.

Part No. 415131
500 sheets per box

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PAPER/PLASTIC

SELECT FLOW™ DISPENSER

Extra-large, gray plastic dispenser with see-through gray cover is quick and easy to load. Use with Part No. 415115, stay dry and free from contamination.The dispensing aperture provides one-at-a-time dispensing and helps minimize consumption.

ADJUSTABLE TO FIT 415114 and 415115

Part No. 415113
Size: 9.8" W x 10" D x 10.5" H

INTEGRA™ LEVER ROLL UNIVERSAL TOWEL DISPENSER

Compact, economical universal dispenser holds all types of roll towels with any size core, including coreless and solid. Easy-to-operate integrated lever makes dispensing and reloading simple. Break-resistant plastic. Black Pearl.

Part No. 415150
Size: 11-1/2" W x 11-1/4" D x 13-1/2" H

WINDSOFT® CENTER-FLOW HAND TOWEL

Two-ply soft, absorbent towel dispenses one-at-a-time, reducing chance of cross-contamination. Provides fast, 30-second maximum absorbency time. 8-1/4" dia. roll

COLOR: WHITE
Part No. 415114
660 feet per roll
6 rolls per case
Sheet Size: 7-7/8" x 13-1/2"

Dispenser available separately, order Part No. 415113.

KLEENEX® NONPERFORATED ROLL TOWELS

One-ply absorbency pockets and fast-drying ridges. Designed primarily for hand-drying in washrooms when combined with the appropriate dispenser. 8" wide rolls.

COLOR: WHITE
Part No. 415112
600 feet per roll
6 rolls per case

COLOR: WHITE
Part No. 415116
425 feet per roll
12 rolls per case

Dispenser available separately, order Part No. 415150.

BRAWNY INDUSTRIAL® GENERAL-PURPOSE WIPER

or CENTER FLOW

Absorbent, airlaid bonded cellulose material ideal for cleanup of oils, grease and solvents. Soft enough for cleaning of hands and face. Perforated.

COLOR: WHITE
Part No. 415115
200 sheets per roll
6 rolls per case
Sheet Size: 9" x 13-1/4"

Dispenser available separately, order Part No. 415113.

BOUNTY® PERFORATED PAPER TOWEL ROLL

Strong, quick-absorbing, two-ply.

COLOR: WHITE
Part No. 415118
56 sheets per roll
30 rolls per case
Sheet Size: 11" x 11"

WYPALL® L40 WIPERS

All-purpose wiper provides cloth-like softness and excellent liquid absorption.

COLOR: WHITE
Part No. 415117
56 wipers per pack
18 packs per case
Sheet Size: 12.5" x 14.4"

SCRIM WIPERS

Four-ply for extra absorbency, plus nylon reinforcement to resist tearing. Handles tough cleanup jobs. Wipes streak-free on glass and smooth surfaces. Low linting.

COLOR: WHITE
Part No. 415120
150 wipers per box
6 boxes per case
Sheet Size: 9.8" x 17"

WYPALL® L30 ECONOMIZER® WIPERS

High performance for your money.

These wipers offer our lighter weight DRC (Double Re-Creped) technology at a great everyday value. This unique process gives high surface softness, while its reinforced grid provides strength for wet surface wiping and cleaning. Specifically designed to replace airlaid wipers, which have "pool-prone" pore areas. It's ideal for a variety of light-duty maintenance, processing and janitorial wiping tasks.

- **Cloth-like feel at a value price.**
- **Strong, yet soft enough for personal use.**
- **Great for light-duty clean-ups.**

COLOR: WHITE
Part No. 415110
Jumbo Roll - 950 per roll
Sheet Size: 12.5" x 13.4"

WYPALL® X60 TERI® WIPERS

The ideal rag replacement wiping system

These wipers bring the absorbing power of our Hydroknit® technology to a lighter weight wiper. Designed to out-perform rags, these new wipers set a higher standard for general purpose wipers.

- **No adhesives or binders; leaves nothing behind.**
- **Reinforced for extra scrubbing and cleaning power.**
- **Tough enough for big jobs - soft enough for face and hands.**

COLOR: WHITE
Part No. 415108
180 wipers per box
Sheet Size: 12.5" x 16.8"

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PAPER/PLASTIC

WYPALL® JUMBO ROLL WIPER DISPENSER II

Holds a jumbo roll equal to 100 lbs. of rags.

- Portable, high-capacity dispenser is compact enough for use in most any location.
- Black metal.
- 16-1/4" W x 18-1/2" D x 33" H.
- Use with Part No.'s 415123, 415124 and 415110.

Part No. **415107**

SLIP-N-GRIP DISPOSABLE PLASTIC SEAT COVER

- Strong 2 ply polyethelyne protects automobile interior and exterior surfaces against hazardous substances.
- Seat covers fit bench and bucket seats.
- Complete protection from paint, grease and most chemicals found in body shops and service bays, ensures customer satisfaction.
- Use once and throw away.

SAVES TIME & MONEY!

PART NUMBER	COVER TYPE	SIZE INCHES	QTY
812100	Seat	33 x 56	125 per case

SEAT-MATE® SEAT PROTECTION

- Made of Olefin Tufflene®.
- Scientifically formulated to provide maximum protection and strength.
- Clear - 1-1/2 mil. thick.
- 200 per roll.
- Size each: 32" x 54".

Part No. **214019**

PAPER FLOOR-MATE® PLASTIC COATED

- The best of both worlds highly absorbent paper and won't soak through.
- 17" x 22" individual mats.
- 500 per case.

Part No. **214022**

PLASTIC FLOOR-MATE®

- Thick, textured, statically treated to prevent slipping and sliding.
- Your protection against greasy or oily shoes and spills.
- 17" x 21" perforated mats on a roll.
- 500 per roll.

Part No. **214024**

HIGH-DENSITY CAN LINERS

High molecular weight high density liners. Super strong star seal bottom. Holds even the heaviest trash.

20-30 GALLON
- 10 micron (.4 mil) thickness.
- Clear - medium.
- 30" x 37".

Part No. **415138**
500 per case

50-60 GALLON
- 17 micron (.7 mil) thickness.
- Clear - extra-heavy.
- 38" x 60".

Part No. **415139**
200 per case

KWIKEE™ SHOP BAGS

- These enormous 36" x 58" (91.4 cm x 147.3 cm), 55-gallon capacity bags are made of rugged 2-ply construction.
- They are big enough and tough enough to handle all your disposal needs.
- Usage tip: for easier removal of full shop bags, punch a few small holes in the bottom of the can or holder.

Part No. **415130**
27 bags per box

TOILET TISSUE

- 2 ply.
- Soft and absorbent.
- 500 sheets per roll.

Part No. **415127**
96 rolls per case

URINAL BLOCKS

- Eliminates odors at their source instantly.
- 3 oz. blocks deodorize up to 30 days.
- 100% organic ingredients.
- Effective & economical.
- USDA accepted - pleasant cherry fragrance.

Part No. **415144**
12 units per bag

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SHOP USE ITEMS

STEEL MECHANIC'S WIRE

Multi-purpose use. For hanging, supporting, tying back or holding objects in place.

- Soft, black, annealed steel - wraps and ties easily.
- One continuous length.

PART NUMBER 5 LB.	PART NUMBER 2 LB.	GAUGE	TYPE
11713	11717	18	Medium
11714	11718	16	Heavy
11715	---	14	X-Heavy

INDUSTRIAL MARKERS

For identification and color-coding in maintenance & industrial settings.

DO NOT USE ON VINYL

- Fast drying, weather-resistant marks.
- Lead-free paint formulated for industrial applications.
- Use on any oily, greasy or rusty metal surface, PVC pipe, sheet metal, glass, wood, rubber, plastic, cardboard, lumber, paper or styrofoam.
- Replaceable bullet tips available. When the old tip is worn out, just replace it with a new one, for full use of marker.
- Marking range: -50° to 150°F.

PART NUMBER	COLOR	QTY
211140	Red	3
211141	Black	3
211142	White	3
211143	Yellow	3
211146	Blue	3
211150	Fluorescent Yellow	3
211151	Fluorescent Green	3
211152	Fluorescent Pink	3
211153	Fluorescent Orange	3

Part No. 211144
Six Replacement Tips

Part No. 211145
Assortment contains: (3 of each color) Red/Black/White/Yellow

PERFORATED HANGER STRAPPING

All purpose hanger for pipes and conduit.

- Galvanized, carbon steel - flexible & corrosion resistant.
- 1/4" dia. holes, 3/4" on center for easy fastening.

PART NUMBER	GAUGE	WIDTH INCHES	LENGTH FEET	PACKAGE
11721	20	3/4	20	(2) ten foot rolls
11722	20	3/4	50	dispenser pack

PAINT STIKS

For layout, inspection or fabrication. Marks metal, wood, concrete, rubber, glass, cardboard and paper.

- Real paint in stick form, dries overnight.
- Marks any surface, any material, any texture - even oily, rusty, wet or icy cold surfaces.
- Weather and fade resistant.
- Marking range: -50°F to 150°F.

PART NUMBER	COLOR	QTY
211119	White	2
211120	Yellow	2

KING SIZE FELT TIP MARKERS

For identification of equipment, cartons and signs. Use on cardboard, wood, metal, paper, ceramics, glass and leather.

- Broad tip creates bold marks.
- Extra large ink supply for greater mileage & longer life.
- Fast drying, smear and water resistant.
- Tough cap and barrel for heavy-duty use.

PART NUMBER	COLOR
211118	Black

TRADES-MARKER®

Part No. 211154
(sold each)

- Retractable grease pencil with pocket clip.
- Needs no sharpening.
- Push button to advance.
- Marks plastic, glass, wood, paper, cardboard & metal.
- Won't rub off.
- Color: Red

SILVER-STREAK® & RED-RITER® WELDERS PENCILS

(Silver) Part No. 211155
(sold 12/bx.)

(Red) Part No. 211157
(sold 12/bx.)

- Economical high strength, high visibility pencils.
- Ideal for marking metal surfaces.
- Works well even on oily, rusty or wet surfaces.
- Resistant to torch flames.
- Will not rub or burn off like soapstone.
- Uses any standard pencil sharpener.

DURA-INK 15 FELT FINE BULLET TIP MARKERS

Part No. 211156
(sold 6)

- Fast drying.
- Smear & water resistant.
- Great for identifying parts, cartons, crates, etc.
- Use on cardboard, wood, metal, plastic, pvc, paper, ceramics, cloth & glass.
- Color: Black

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SHOP EQUIPMENT

HOOD HOLDER

Part No. 113896

Holds hood, door or trunk lid open during repair, replacement or body work.

To use, open hood or door and place large end of the column in a stable and stationary location, and position small telescoping rod on a secure spot under the hood or on door. Extend telescoping rod to desired opening. Pressure of the hood or door secures Hood Holder in position. To disengage Hood Holder, lift free end of trigger. For proper operation, trigger should touch only on closed side of trigger guard.

WARNING! Not for use as heavy duty supporter: 50 pounds maximum.

CANTED WHEEL CASTER

- Special design allows caster to climb over cables, wires, cords, hoses, etc.
- Formed steel and case hardened for strength.
- Overall height: 3-5/32".

Part No. 113296

Universal mounting plate has 2-5/16" bolt holes and 4-1/4" bolt holes to fit any creeper.

STEEL STEP STOOL

- Platform is 16" W x 14" D x 10-1/2" H.
- 350 lb. capacity.
- Rigid 1" square tubing.
- Perforated.
- Meets OSHA standards.
- Overall W & D: 18-1/2" x 16-1/2".
- Weight: 16 lbs.

Part No. 812775

SPILL-PROOF GAS CANS

- Meets California Air Resources Board's & E.P.A. requirements.
- Prevents leakage & spills.
- Lock or unlock to pour or store.
- Depress lever to pour, release to stop the flow.
- Maintains airtight seal.
- High density polyethylene.
- Child resistant.
- Rust free / dent resistant.

CARB/EPA Compliant

PART NUMBER	SIZE
813228	one gallon
813229	two gallons
813230	five gallons

*Flexible spout included.

STEEL SAFETY CANS

- 24 gauge hot dipped Galvanized Steel.
- Includes plastic funnel.
- Type I, meets OSHA & NFPA code 30.
- FM, UL & ULC approved for safe handling & storage of gasoline & other flammable liquids.

PART NUMBER	SIZE
813233	one gallon
813234	two gallons
813235	five gallons

PLASTIC FUNNELS

Super Funnel

- Makes work easier and cleaner.
- Long spout.

Part No. 813231

1 qt. Funnel w/Flex Spout

Part No. 813232

HEAVY DUTY DRIVEWAY SIGNAL HOSE

For driveway signal devices in service stations and garages.

- Long lasting synthetic rubber tubing.
- Specially designed and constructed to register under the slightest pressure, yet withstand full vehicle weight.
- Hose size: 3/8" ID x 5/8" OD.
- Packed in 50' rolls.

Part No. 10904

DRIVEWAY SIGNAL BELL

- 6" bell.
- Operates up to 300' of hose.
- Plugs into any 110 volt outlet.
- Made in the USA.

Part No. 813168

SIGNAL HOSE FITTINGS

HOSE SPLICER

Part No. 813169

- Fits 3/8" ID signal hose.

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SHOP EQUIPMENT

INSULATED HOSE NOZZLE

Sprays boiling hot or ice cold liquids.

- Rubber head guard protects threads on nozzle and prevents damage to surfaces.
- Heavy duty metalized all zinc body - chrome plated.
- Brass valve and adjusting nut with stainless steel spring.
- Heavy duty rubber washer included.
- Threaded front for attaching accessories.

Part No. 312225

NYLON HOSE NOZZLE

- Unbreakable and durable.
- Non-corroding nylon body.
- Polymer valve assembly with stationary nut.
- Heavy duty rubber washer included.

Part No. 312226

HOSE MENDERS

– NYLON –

- Installs quickly and easily with only a knife and screwdriver.

HOSE MENDER

MALE COUPLING

FEMALE COUPLING

HOSE SIZE	HOSE MENDER PART NUMBER	QTY	MALE PART NUMBER	QTY	FEMALE PART NUMBER	QTY
7/16, 1/2, 9/16	312227	2	---	-	---	-
5/8-3/4	312230	2	312231	2	312232	2

BRASS CAP

- Caps off water hose when not in use.
- Constructed of brass barstock.
- 3/4-11-1/2" garden hose thread.

Part No. 312215 5

SOLID BRASS QUICK COUPLERS

Convenient, instant coupling and uncoupling of accessories to hose.

PART NUMBER	TYPE
312238	Set-Male/Female
312239	Male End
312240	Female End

- Fast, durable and prevents hose damage.

BRASS BARBED HOSE MENDERS

- Industrial grade.
- Repairs plastic or rubber garden hose.
- 3/4-11-1/2" garden hose thread.
- Constructed of brass barstock.
- Can be used with clamps or ferrules.

HOSE SIZE	FEMALE SWIVEL PART NUMBER	QTY	MALE PART NUMBER	QTY	COUPLER PART NUMBER
1/2	312206	2	312209	2	312212
5/8	312207	2	312210	2	312213
3/4	312208	2	312211	2	312214

COUPLER

FEMALE SWIVEL

MALE

CONTRACTOR'S WATER HOSE

Top quality commercial and industrial grade water hose. Also for air and water base agricultural spray applications, including Monsanto Lasso.

- EPDM polymer tube, spiral polyester cord reinforcement, black EPDM polymer cover.
- 5/8" I.D. x 50' length.
- Crimped ferrules and solid spun brass couplings.
- 150 P.S.I. working pressure.
- Maximum temperature to 175°F.

Part No. 109118

NOTE: Not intended for steam or hot water pressure washers.

HOSE HANGER

- Heavy duty.
- Corrosion proof.
- Baked enamel finish.
- All metal construction.
- Holds up to 100 feet of hose.

Part No. 312237

VINYL HOSE WASHERS

- Heavy duty.
- Sturdy.
- Corrosion resistant.

STOPS LEAKS!

Part No. 312236 50

D14

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PROTECTIVE CLOTHING

WEIDERCARE BACK SUPPORT SYSTEMS

Provides maximum abdominal and lower back muscle support.

- BacBelt's tapered front panel has velcro closure - gives exact support.
- Lightweight and durable design.
- Superior quality.

PART NUMBER	SIZE	WAIST SIZE (INCHES)
812584	Small	26 - 30
812585	Medium	30 - 34
812586	Large	34 - 38
812587	X-Large	38 - 42

WINTER LINERS

Designed to be worn with hard hats.

PART NUMBER	MATERIAL	WEIGHT
812554	Green cotton twill	Medium
812555	w/red fleece lining	Heavy

DISPOSABLE COVERALLS

- Polypropylene material with polyethylene coating, equivalent to "Tyvek®".
- Resists, water, oil, paint, dust, and light chemicals.
- Heavy duty 1.5 ounces.
- Durable and can be reused.
- 1 piece with zipper front, elastic wrist and ankles.

PART NUMBER	SIZE	QTY
312157	Large (44-46)	3
312158	X-Large (48-50)	3

RAINWEAR

PVC Economy Safety Yellow Rain Suit.

- Lightweight.
- Tough water-tight seams.
- Hooded jacket.
- Adjustable elastic suspenders.
- 35 mil Polyvinylchloride.

PART NUMBER	SIZE
312150	Medium
312152	Large
312154	X-Large
312156	XX-Large
312159	XXX-Large

DENIM BIB APRON

- Heavy-weight denim rib apron with pocket at waist.
- Neck loop and waist straps.
- Length: 38".
- Denim weight: 10 - 12 oz.

Part No. 213114

SWEATBANDS

Elastic headband with sponge rubber.

Part No. 812565 4

CONTOUR KNEE PAD

- This foam pad is contoured to the shape of the knee, which allows for greater comfort.
- It allows for easy side-to-side movement while releasing knee pressure when kneeling.
- Unisize style with Velcro® straps.

Part No. 312180

UTILITY GLOVES

- Light, washable and economical.
- Ideal for painting, polishing, and cleaning.
- Completely lined white canvas.
- Clute pattern.
- Knit wrist.
- Men's size.

Part No. 312110

KEVLAR ARM PROTECTORS

PART NUMBER	LENGTH (INCHES)
312117	15
312138	24

- Protect against exhaust pipe burns and sheet metal cuts.
- Heat resistant knit Kevlar fabric. Protects up to 600°F for short durations, 450°F for long durations.
- Snug fit - will not slip down while working.
- Machine washable and dry cleanable.

HEAVY CANVAS WORK GLOVES

- Ideal for lubricating, greasy equipment clean up, painting and polishing.
- Tough leather palm & thumb.
- Clute pattern.
- Men's size.
- Knit wrist.
- Inside palm lined for softness.

Part No. 312111

HEAVY DUTY WORK GLOVES

- Full leather palm, knuckles and fingers.
- Safety side split cuff, wing thumb.
- Palm lined for softness.
- Canvas back with elastic wrist strap.
- Gunn pattern, with seams away from wear surface.
- Fits all average and large size hands.

Part No. 312112

LEATHER DRIVING GLOVES

- Top grain tan cowhide.
- Continuous easy action thumb.
- Elastic wrist back strip.
- Gunn pattern, with seams away from wear surface.
- Unlined.
- Large size.

Part No. 312114

RANCH HAND™

- This split leather drivers glove is sewn with Kevlar® and made from select leather for increased abrasion resistance and greater protection.
- It features a keystone thumb for excellent dexterity and durability, a shirred elastic back.

Part No. 312174

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QUALITY DISPOSABLE GLOVES

YOU CAN COUNT ON!

Plumbing | Painting | Automotive | Dental | Food Service & Preparation | Janitorial | Beauty | Medical | Child Care | Home | Industrial | Chemicals

HEAVY DUTY LATEX

Gloveworks HD® Powder Free, Textured Latex Gloves

These heavy duty, powder free industrial grade latex gloves feature a smooth interior for quick, easy donning and a textured surface for a terrific grip. At 8 mils, they are twice as strong as standard disposable gloves, yet provide the dexterity you've come to expect in a latex glove.

PART NO.	SIZE
415300	Medium
415301	Large
415302	Extra Large

100 gloves per box.

INDUSTRIAL GRADE BLACK NITRILE

GlovePlus® Powder Free, Textured Nitrile Gloves

"GET IN THE BLACK" and out of the ordinary nitrile gloves. GlovePlus Black Nitrile is 20% thicker than our standard blue nitrile. For automotive, janitorial, plumbing, or industrial applications, nitrile is also approved for food handling and prep work. Textured and powder free so they won't interfere with fresh paint finishes or tacky adhesives.

PART NO.	SIZE
415179	Medium
415180	Large
415181	Extra Large
415182	Extra-Extra Large

100 gloves per box.

INDUSTRIAL GRADE BLUE NITRILE

Gloveworks® Powdered, Textured Nitrile Gloves

Nitrile gloves provide three times the puncture resistance of comparable latex or vinyl gloves, and are free of latex proteins. Polymer coating provides easier donning and superior comfort. Textured to provide an excellent non-slip grip.

LATEX FREE

PART NO.	SIZE
415225	Medium
415226	Large
415227	Extra Large

100 gloves per box.

EXAM GRADE BLUE NITRILE

+AMMEX® Powder Free, Textured Nitrile Gloves

A high performance, exam grade nitrile glove. Powder free and latex free, chlorinated, with a micro-roughened grip. The preferred choice for latex sensitive individuals, they provide superior comfort and strength with unsurpassed tactile sensitivity. Nitrile gloves have three times the puncture resistance of comparable latex or vinyl gloves.

LATEX FREE

PART NO.	SIZE
415135	Medium
415136	Large
415137	Extra Large

100 gloves per box.

INDUSTRIAL VINYL

GlovePlus® Powder Free, Smooth Vinyl

Vinyl powder free gloves contain no latex proteins.
Made from clear vinyl (PVC). Non-medical use only.

LATEX FREE

PART NO.	SIZE
312148	Medium
312149	Large
312146	Extra Large

100 gloves per box.

EXAM GRADE LATEX

GlovePlus® Powder Free, Textured Latex Gloves

A micro-roughened surface assures an excellent wet or dry grip. Reduced protein levels are due to extended leaching process. Chlorinated with no residual powder.

PART NO.	SIZE
415140	Small
415141	Medium
415142	Large
415143	Extra Large

100 gloves per box.

PSS110812

HEAVY DUTY EXTRA LONG LATEX

GlovePlus HD® Powder Free, Textured Latex Gloves

These extra strong and extra long (12") exam grade gloves provide added protection for the wristband lower forearm. GlovePlus HD maintains excellent sensitivity while being over twice as thick as standard latex gloves.

PART NO.	SIZE
415310	Medium
415311	Large
415312	Extra Large

50 gloves per box.

INDUSTRIAL BLUE NITRILE

Gloveworks® Powder Free, Textured Nitrile Gloves

Latex and powder free, with superior comfort, strength, and unsurpassed tactile sensitivity. Polymer coating assures easy donning.

PART NO.	SIZE
415320	Medium
415321	Large
415322	Extra Large

100 gloves per box.

• GLOVE BUYING GUIDE •

Latex Gloves

- For form, fit and function, latex gloves are the best.
- Provide superior barrier protection and are durable.
- ***CAUTION:*** Latex gloves contain natural rubber latex that may cause allergic reactions. ***Do not use latex gloves if you or someone you may come in contact with is allergic to latex.*** Use a synthetic alternative such as vinyl or nitrile.

Vinyl Gloves

- Vinyl gloves are made of PVC (polyvinyl chloride).
- Popular alternative to latex because they are latex free and inexpensive.
- Vinyl is not as durable and provides poor barrier protection.

Nitrile Gloves

- Nitrile is an elastic material similar to latex, but is NOT latex. Nitrile gloves are usually BLUE.
- More puncture and abrasion-resistant than vinyl and latex.
- Popular with healthcare providers, mechanics and persons involved in industrial applications.
- Nitrile is more expensive than latex or vinyl.

Medical Grade Gloves

- All medical grade gloves have FDA oversight and approval.
- Medical grade gloves are mandatory for anyone coming in contact with blood borne pathogens (blood, urine, saliva, etc.).
- If the box does not say "EXAM", it is not medical grade.

Industrial Grade Gloves

- A term used to distinguish disposable gloves used for industrial or non-medical purposes.
- Industrial grade gloves are popular in industrial and food service markets were there are no blood borne pathogen issues.

Powdered Gloves

- Cornstarch is used to powder gloves, which helps with donning.
- Powder can go airborne during donning and removal, which can be inhaled into the lungs. Anything attached to the powder is also inhaled. This is one reason why powder free gloves are more popular.

Powder Free Gloves

- Powder free gloves have risen in popularity because of latex allergies. Powder free gloves generally have lower protein levels than powdered gloves, so the risk of latex allergy is less.
- Since powder free gloves do not have powder, the chance of latex proteins attaching to the powder and going airborne is virtually eliminated.

Disposable Gloves
CHEMICAL RESISTANCE CHART

THIS CHEMICAL RESISTANCE CHART IS FOR ADVISORY USE ONLY!

Conditions, exposure times, chemical concentrations and residues may affect glove performance.
It is strongly advised that on-site testing of all gloves is important to help determine safe usage.

CHEMICAL RESISTANCE	LATEX	NITRILE	VINYL
Acetaldehyde, 99.5%	Recommended	Limited Use	Not Recommended
Acetic Acid	Recommended	Recommended	Recommended
Acetone, 99.5%	Recommended	Not Recommended	Not Recommended
Acetonitrile, 99%	Recommended	Recommended	Not Recommended
Acrylic Acid, 99%	Recommended	Limited Use	Not Rated
Ammonium Fluoride, 40%	Recommended	Recommended	Recommended
Ammonium Hydroxide, 85%	Recommended	Not Recommended	Recommended
Amyl Acetate, 100%	Not Recommended	Recommended	Limited Use
Amyl Alcohol, 99%	Recommended	Recommended	Limited Use
Aniline, 99%	Limited Use	Not Recommended	Limited Use
Animal Fats	Not Recommended	Recommended	Recommended
Aqua Regia	Not Recommended	Recommended	Recommended
Battery Acid	Recommended	Recommended	Recommended
Benzaldehyde, 99.5%	Limited Use	Not Recommended	Not Recommended
Benzene	Not Recommended	Recommended	Limited Use
Benzyl Chloride	Limited Use	Recommended	Not Recommended
Bromine	Recommended	Not Rated	Recommended
Bromopropionic Acid, Sat.	Recommended	Recommended	Not Rated
Butane	Not Recommended	Recommended	Not Recommended
2-Butoxyethanol	Not Rated	Recommended	Not Rated
Butyl Acetate, 99%	Not Recommended	Limited Use	Not Recommended
Butyl Alcohol, 99%	Recommended	Recommended	Recommended
Butyl Cellosolve, 99%	Recommended	Recommended	Not Recommended
Butyrolactone, 99%	Recommended	Not Recommended	Not Rated
Calcium Hypochlorite	Not Recommended	Recommended	Recommended
Carbolic Acid	Not Recommended	Not Recommended	Recommended
Carbon Dichloride	Not Rated	Recommended	Not Rated
Carbon Disulfide, 99.9%	Not Recommended	Limited Use	Not Recommended
Carbon Tetrachloride, 99%	Not Recommended	Recommended	Limited Use
Castor Oil	Recommended	Recommended	Recommended
Cellosolve Acetate, 99%	Recommended	Recommended	Not Recommended
Cellosolve Solvent	Recommended	Recommended	Not Rated
Chlorine	Recommended	Recommended	Recommended
Chloroacetone	Limited Use	Not Rated	Not Recommended
Chloroform	Not Recommended	Recommended	Not Recommended
Chloronaphalenes	Not Rated	Limited Use	Not Rated
Chlorothene VG	Not Rated	Limited Use	Not Recommended
Chromic Acid, 50%	Not Recommended	Limited Use	Recommended
Citric Acid, 10%	Recommended	Recommended	Recommended
Cottonseed Oil	Not Recommended	Recommended	Recommended
Creosol	Not Recommended	Recommended	Limited Use
Cunene	Not Rated	Recommended	Not Rated
Cutting Oil	Limited Use	Recommended	Not Recommended
Cyclohexane	Not Recommended	Recommended	Not Recommended
Cyclohexanol, 98%	Recommended	Recommended	Recommended
Diacetone Alcohol, 99%	Limited Use	Recommended	Limited Use
Dibutyl Phthalate, 99%	Limited Use	Recommended	Not Recommended
Diamine	Not Rated	Recommended	Not Rated
Diethylamine, 99%	Not Recommended	Limited Use	Not Recommended
Diethyl Ether	Limited Use	Recommended	Not Recommended
Di-Isobutyl Ketone, 80%	Limited Use	Recommended	Recommended
Dimethyl Acetamide, 99%	Limited Use	Not Recommended	Not Rated
N,N-Dimethyl Formamide, 99%	Recommended	Not Recommended	Not Recommended
Dimethyl Sulfoxide, 99%	Recommended	Recommended	Not Recommended
Dioctyl Phthalate, 99%	Limited Use	Recommended	Not Rated
1,4-Dioxane, 99.9%	Limited Use	Not Recommended	Limited Use
Epichlorohydrin, 99%	Limited Use	Not Recommended	Not Rated
Ethanol	Not Rated	Recommended	Not Rated
2-Ethoxyethanol	Not Rated	Recommended	Not Rated
Ethyl Acetate, 99%	Limited Use	Not Recommended	Not Recommended
Ethyl Alcohol, 90%	Recommended	Recommended	Limited Use
Ethyl Ether, 99%	Limited Use	Recommended	Recommended
Ethylene Dichloride	Not Recommended	Recommended	Not Recommended
Ethylene Glycol, 99%	Recommended	Recommended	Recommended
Ethyl Glycol Ether, 99%	Limited Use	Limited Use	Not Rated
Ethylene Trichloride	Not Recommended	Not Recommended	Not Rated
Fluorine	Recommended	Not Rated	Recommended
Formaldehyde, 99%	Recommended	Recommended	Recommended
Formalin Solution	Not Rated	Recommended	Not Rated
Formic Acid, 95%	Recommended	Limited Use	Recommended
Freon TF, 99%	Not Recommended	Limited Use	Limited Use
Furfural, 99%	Recommended	Not Recommended	Not Recommended
Gasoline, 100%	Not Recommended	Recommended	Limited Use
Glycerine	Recommended	Recommended	Recommended
Glycerol	Recommended	Recommended	Recommended
Heptane	Not Rated	Recommended	Not Rated
Hexamethyldisilazine, 97%	Recommended	Recommended	Not Rated
Hexane, 99%	Not Recommended	Recommended	Not Recommended
Hydraulic Fluid-Petrol Based	Not Recommended	Recommended	Recommended
Hydraulic Fluid- Ester Based	Not Recommended	Not Recommended	Not Recommended
Hydrazine, 65%	Recommended	Recommended	Recommended

CHEMICAL RESISTANCE	LATEX	NITRILE	VINYL
Hydrochloric Acid, 38%	Recommended	Recommended	Recommended
Hydrofluoric Acid, 48%	Recommended	Recommended	Recommended
Hydrogen Peroxide, 30%	Recommended	Recommended	Recommended
Hydroquinone	Recommended	Recommended	Recommended
Iodine	Recommended	Recommended	Recommended
Isobutyl Alcohol, 99%	Recommended	Recommended	Recommended
Iso-Octane, 99%	Limited Use	Recommended	Not Recommended
Isopropanol	Not Rated	Recommended	Not Rated
Isopropyl Alcohol, 99%	Limited Use	Recommended	Recommended
Isopropyl Benzene	Not Rated	Recommended	Not Rated
Kerosene, 100%	Recommended	Recommended	Not Recommended
Lactic Acid, 85%	Recommended	Recommended	Recommended
Lauric Acid, 36%	Recommended	Recommended	Limited Use
Linoleic Acid	Not Recommended	Recommended	Recommended
Linseed Oil	Not Recommended	Recommended	Recommended
Maleic Acid, 100%	Recommended	Recommended	Recommended
Methanol	Not Rated	Recommended	Not Rated
Methyl Acetate	Not Recommended	Not Recommended	Not Rated
Methyl Alcohol, 99.9%	Recommended	Recommended	Recommended
Methylamine, 40%	Recommended	Recommended	Recommended
Methyl-Butyl Ether, 99.8%	Not Recommended	Recommended	Not Rated
Methyl Cellosolve, 99%	Limited Use	Limited Use	Not Recommended
Methylamine	Recommended	Recommended	Recommended
Methyl Chloride	Not Recommended	Not Recommended	Not Recommended
Methylene Chloride	Limited Use	Recommended	Limited Use
Methyl Ethyl Ketone, 99%	Limited Use	Not Recommended	Not Recommended
Methyl Isobutyl Ketone	Limited Use	Not Recommended	Not Rated
Methyl Methacrylate	Not Recommended	Not Recommended	Not Rated
Methyl-T-Butyl Ether	Not Rated	Recommended	Not Rated
Mineral Oil	Not Recommended	Recommended	Limited Use
Mineral Spirits, 100%	Not Recommended	Recommended	Not Recommended
Monoethanolamine, 99%	Limited Use	Recommended	Recommended
Morpholine, 99%	Limited Use	Not Recommended	Limited Use
Muriatic Acid, 100%	Recommended	Recommended	Recommended
Naphtha VM&P, 100%	Not Recommended	Recommended	Not Recommended
N-Methyl-2 Pyrrolidone, 99%	Limited Use	Not Recommended	Not Rated
Naphthalene	Recommended	Recommended	Recommended
Nitric Acid, 10%	Recommended	Recommended	Recommended
Nitric Acid, 70%	Not Recommended	Not Recommended	Limited Use
Nitrobenzene, 99%	Limited Use	Not Recommended	Not Recommended
Nitromethane, 95.5%	Recommended	Not Recommended	Not Recommended
Nitropropane, 95.5%	Recommended	Not Recommended	Not Rated
Octyl Alcohol, 99%	Recommended	Recommended	Recommended
Oleic Acid, 99%	Recommended	Recommended	Recommended
Oxalic Acid, 12.5%	Recommended	Recommended	Recommended
Paint Remover	Limited Use	Recommended	Not Recommended
Palmitic Acid, Sat.	Recommended	Recommended	Recommended
Pentachlorophenol, 35%	Not Recommended	Recommended	Not Rated
Pentane, 98%	Not Recommended	Recommended	Recommended
Perchloric Acid, 60%	Limited Use	Limited Use	Recommended
Perchloroethylene	Not Rated	Recommended	Not Rated
Perholffeum Ether	Not Rated	Recommended	Not Rated
Phenol, 90%	Recommended	Not Recommended	Recommended
Phosphoric Acid, 85%	Recommended	Recommended	Recommended
Picric Acid	Recommended	Recommended	Recommended
Potassium Hydroxide, 50%	Recommended	Recommended	Recommended
Printing Ink	Recommended	Recommended	Limited Use
Propyl Acetate, 99%	Not Recommended	Limited Use	Not Recommended
Propyl Alcohol, 96%	Recommended	Recommended	Limited Use
Propylene Oxide	Not Recommended	Not Rated	Not Rated
Pyridine, 99%	Limited Use	Not Recommended	Not Rated
Rubber Solvent, 100%	Not Recommended	Recommended	Not Recommended
Rule Solvent	Not Rated	Recommended	Not Rated
Sodium Hydroxide, 50%	Recommended	Recommended	Recommended
Sodium Hypochlorite	Recommended	Limited Use	Recommended
Stoddard Solvent, 99%	Not Recommended	Not Recommended	Recommended
Sulfuric Acid, 95%	Recommended	Limited Use	Recommended
Tannic Acid, 37.5%	Recommended	Recommended	Recommended
1,1,2,2-Tetrachloroethane, 99%	Not Recommended	Not Recommended	Not Rated
Tetrachloroethylene, 100%	Not Recommended	Not Recommended	Recommended
Toluene, 99%	Not Recommended	Not Recommended	Limited Use
Toluene Di-Isocyanate	Not Recommended	Not Rated	Not Recommended
1,1,1-Trichlorethane, 99%	Not Recommended	Not Recommended	Not Rated
Trichloroethylene	Not Recommended	Recommended	Limited Use
Tricresyl Phosphate, 90%	Not Recommended	Recommended	Limited Use
Triethanolamine, 85%	Limited Use	Recommended	Recommended
Tung Oil	Not Rated	Recommended	Limited Use
Turbine Oil	Not Recommended	Recommended	Limited Use
Turpentine, 100%	Not Recommended	Recommended	Not Recommended
Vegetable Oil	Not Recommended	Recommended	Limited Use
Xylene	Not Recommended	Limited Use	Not Recommended

These helpful icons will show you the best glove products for your needs...

Disposable Glove Sizing Chart

DIRECTIONS:

Place hand on chart, lining up saddle of thumb (under dot) and side of forefinger.
Press down firmly. Your correct glove size is indicated by the size area that the widest part of your hand falls within.

PROTECTIVE CLOTHING

PVC NON-SLIP GLOVES

- Superior non-slip second coating grips slippery surfaces.
- Interlocked flexible knit liner.
- Fully coated with PVC.
- High resistance to wear, abrasion, acids, solvents and other chemicals.
- 12'' overall length.
- Men's size.

Part No. 312116

CHEMICAL RESISTANT GLOVES

- Nitrile coating.
- Soft cotton lining for added comfort.
- Superior resistance to cuts, abrasions andpunctures.
- 13'' overall length.
- 18 mil thick.

PART NUMBER	SIZE
312121	Large (9)
312122	X-Large (10)

Soft Green Color

KEVLAR GLOVES

- Perfect for working near hot exhaust or engines.
- Made of the same material as our Kevlar arm protectors.
- Entire palm side studded for sure grip.
- One size fits all.

Part No. 312120

JERSEY WORK GLOVES

- Ideal for warehouse, factory, painting, polishing and clean up.
- Lightweight and economical.
- 9 oz. brown jersey.
- Knit wrist.
- Clute pattern.
- Men's size.

Part No. 312115

WITH LINING
Part No. 312173

FLEX TUFF GLOVES

- Blue texture rubber palm coated for wet or dry grip.
- Poly/cotton knit blend.

PART NUMBER	SIZE
312177	Large
312179	X-Large

INSULATOR™ GLOVES

Used by utility companies, meat and poultry processing plants, commercial fishing, dairies, refrigerated warehouses or any cold environment.

- Made from Dupont's 100% Thermax fibers.
- Offers warmth without weight.
- Thermax wicks moisture away from skin leaving a warm, dry layer of air trapped next to the skin.
- Machine washable/dryable.
- Same heat resistance as wool.
- Color: white.
- Fits both men and women.
- One size fits all.
- Reversible.
- Use alone or as a liner.

Part No. 312124

POLAR INSULATED LEATHER PALM GLOVES

- The Thinsulate® lining and knit wrist keeps hand warm and protected from cold work environments. Can be used to protect from sparks, abrasions and heat.
- High quality tough leather palm exterior. Knuckle strap and full leather thumb and index finger. Double stitched along the index finger, wrist & cuff provide excellent durability.
- Fully lined gloves provide superior insulation and comfort.
- One size fits most.

Part No. 312145

DOTTED STRING KNIT GLOVES

- Poly/cotton blend string knit gloves.
- Plastic PVC dots on Both Sides provide extra grip & durability.
- Knit wrist style.

PART NUMBER	SIZE
312175	Large
312176	X-Large

D14

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SAFETY EQUIPMENT

HARD HATS

Meets ANSI Z89.1 - 1997, Type 1 specs. for class C, E & G applications.

- **The ultimate in comfort and protection.**
- **Strong, lightweight, fully dielectric, high quality construction.**

PART NUMBER	COLOR
812550	White
812551	Yellow

One size fits all.

FACE SHIELDS

Meets ANSI Z87.1-1979 specifications.

Part No. 812556

Meets ANSI Z87.1-2003 (High Impact) & CSA Z94.3 standards.

Part No. 812668

Additional lenses sold separately see page D13-11.

LENS CLEANING WIPES

- **Pre-moistened individually wrapped towelettes, 100 per box.**
- **Use to clean safety glasses, safety goggles, face shields, computer screens, plastic, glass or polycarbonates.**
- **Anti-static, anti-fog formula (contains no silicone).**

Part No. 312192

WINDOWS FOR SHIELDS

PART NUMBER	SIZE INCHES	COLOR	USED WITH SHIELD NO.
812558	8 x 12 x .040	Clear	**812556**
812559	8 x 12 x .040	Green-shade B	**812556**
B - Medium Green			

D14

3M INDUSTRIAL DUST / MIST RESPIRATOR 8210

Part No. 908210
20 per box

- **NIOSH approved: N95.**
- **At least 95% filtration efficiency against solid and liquid aerosols that do not contain oil.**
- **Use for: solids such as those from processing minerals, coal, iron ore, flour and certain other substances. Liquid or non-oil based particles from sprays that do not also emit oil aerosols or vapors.**
- **DO NOT USE FOR: paint spray, oil aerosols, gases, vapors, asbestos or sandblasting. This respirator does not supply oxygen.**

3M NON-TOXIC PARTICLE MASK 6985

Part No. 906985
50 per box

- **Comfortable fitting mask provides relief against non-toxic dusts.**
- **Made of flexible filter material, specially contoured to stand away from the face.**
- **One mask fits all - no straps to adjust.**

DUST MASK - *NIOSH / MSHA APPROVED*

DUST MASK FEATURES:
- No Metal Clips
- Self Adjusting Nose Bridge
- Viledon®/ Microndon Crush Proof State of the Art Filter Media.
- "Hug-on" Flaps

Part No. 113264 20

- **Protects against toxic dusts and mists.**
- **Positively the most comfortable mask available!**
- **Designed to wear low on the nose without discomfort.**
- **Designed to protect against dusts and mists only.**
- **Not to be used for fumes, vapors, gases in spray paint operations, abrasive blasting or fire fighting.**

GUARANTEED TO:
- Fit, feel & seal better.
- Last longer.
- Cost less per mask than 3M #8710 & #6983 masks.

GENERAL PURPOSE DUST MASK

- **Protects against non-toxic dusts and mists.**
- **Lightweight.**
- **Maintenance free.**
- **Clear vision.**
- **Easy breathing and speaking**

Part No. 113228 (50)

—NOTE—

The Dust Mask, Part No. 113228 has been tested to U.S. Government NIOSH specifications (Code of Federal Register, Title 30, Part II Par. 11. 140-4 and 11.140-5). Although this mask has been tested according to NIOSH standards, it is not a NIOSH approved mask, and may be used only for protection against non-toxic and nuisance dusts.

—WARNING—

This mask is not suitable for use against toxic or hazardous air contaminants, such as, but not limited to, paint spray mists, asbestos, silica, cotton or other toxic dusts, fumes, gasses and vapors. It is the responsibility of the user to determine the suitability of this mask for his/her application. If there is any doubt as to the applicability of the Dust Mask, Part No. 113228 please consult an industrial hygienist.

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SAFETY EQUIPMENT

CPR MASKS
"BARRIER SHIELD" STYLE

For use whenever administering mouth to mouth resuscitation. Contains: CPR Mask (generic with one-way valve), Gloves, Wipes.

- OSHA as well as just pure common sense - dictates that employees must be protected from potentially hazardous fluids when administering first aid or CPR.

Part No. 312183

MID RANGE EARMUFF

The simple height adjustment of this mid range hearing protector works well for any head shape.

- Broad foam cushions give low comfortable surface pressure for a secure and comfortable fit.
- Individual stainless-steel headband wires and ultra lightweight (5-1/8 oz.).
- Pressure equalization air openings correct pressure to the eardrum.
- Complies with ANSI S3.19-1974.

Part No. 812509

EAR PLUGS

Soft silicone construction provides easier insertion and comfortable, all day fit.

- Unique conical shape allows one size to fit 85% of all ears.
- Non-toxic and non-allergenic.
- Reusable, wash with mild soap and warm water.
- May be worn under winter liners.
- Complete with safety cord.

Part No. 812576

SOUND SILENCER® PLUS
Soft Foam Ear Plugs

- One size fits all - no need to carry multiple sizes.
- Self adjusting foam - expands upon insertion.
- Custom fit - conforms to virtually any ear canal shape.
- All day comfort.
- Washable and reusable.
- Non-irritating, non-allergenic.
- Noise reduction rating - 27 decibels.
- Each pair of plugs sealed in a plastic bag for maximum cleanliness.

Part No. 812507 10

SPECTRA® SAFETY GLASSES BY WILLSON

- Increased Wearer Comfort:
  - Lightweight, fashionable style.
- High on Quality & Protection:
  - Impact resistant polycarbonate lens.
  - Integral side shields, molded brow guards.
  - Anti-scratch coating for long lens life.
- Special Features:
  - Replaceable large unitary lens for excellent field of vision.
  - Nose bridge designed for comfort & universal fit.
  - Special frame design prevents lens contact with rough surfaces.
- Specifications:
  - Exceeds all ANSI Z87-1 performance standards.
  - Accepted by OSHA in compliance with 29CFR 1910.
  - NOT unbreakable, NOT for welding, does NOT meet ANSI 287-1 requirements for radiant energy transmission.

PART NUMBER	LENS	LUMINOUS TRANSMITTANCE
812504	Clear	89% min.
812505	Gray	14-20%

SAFETY GOGGLES
OSHA Approved

- Optical quality, distortion free, clear plastic lenses.
- Perforated soft vinyl frame for maximum ventilation.
- Fits over personal glasses.
- Protects against flying particles, sparks and splashes.
- A necessity when grinding, scaling or scraping.

Part No. 812118

SAFETY GLASSES
OSHA Approved

- Polycarbonate clear lenses - impact resistant.
- Unique full view wrap around design for maximum protection.
- One piece optical front.
- Specially designed vented side shield temples.
- 4 post hinge system.

Part No. 812120
Clear color frame

VISITOR GLASSES

- Does not comply to ANSI Z-87.1 - 1979 specifications.
- Lightweight high optical quality plastic.
- One size fits all.
- Wrap around design for full view.
- Side shields give added protection.
- Fits over personal glasses.

Part No. 812121
Clear color frame

SAFETY GLASSES

- Lightweight, nylon frame.
- One-piece polycarbonate lens design.
- Adjustable, ratchet-action temples with wrap-around design for comfort.
- Complies with ANSI Z87.1-1989.

Part No. 812514
Black frame, #5 dark green lens

Part No. 812516
Black frame, grey lens

ANTI-FOG SAFETY GLASSES

- Contemporary style and adjustable temple length.
- Ratcheting temples that adjust up to 13 inclination positions.
- Temples have glass cord holes for easy and secure fastening.
- A lightweight polycarbonate lens that complies with ANSI.
- X-Coat for superior scratch resistance.
- Provides a wide range of vision and excellent side and brow protection.

Part No. 812598

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SAFETY EQUIPMENT

NEMESIS™ SAFETY GLASSES

- Sleek, sporty style.
- Soft touch temples.
- Lightweight construction.
- Single lens wrap-around protection.
- Comes with an adjustable, breakaway Flexicord™ retainer for added security and convenience.
- Meets ANSI Z87.1 + standards.

PART NUMBER	LENS
812765	Clear
812766	Smoke Mirror
812767	Blue Mirror
812768	Amber
812769	5.0 For Mild Cutting

PROTECT YOURSELF AND YOUR COMPANY

All our first aid kits and safety supplies meet OSHA requirements.

WOUNDSEAL™

Topical powder stops bleeding instantly.

- Seals & protects wounds from infection.
- Safe for diabetics & those using blood thinners.
- Reduces employee down time & trips to the ER.
- Reduces OSHA reportable incidences.

Contains:
1-squeeze bottle
for larger application
or several smaller ones

Part No.
312184

Contains:
2-tear drop applications
2-applicators for
hard-to-reach wounds

Part No.
312182

KUT KIT™ FIRST AID KIT

Part No.
312181

- Compact kit fits anywhere.
- Can be wall mounted or stored in a glove box or behind a seat.
- Size: 5" x 5" x 2.5".

Kit includes:
16-adhesive bandages
1-gauze compress
9-fingertip & knuckle bandages
10-antiseptic towelettes
2-20ml eyewash
1-WoundSeal™ - 2 applications

D14

INDUSTRIAL FIRST AID KITS

Used in industrial plants, offices, machine shops, construction sites, laboratories, service stations, auto body shops, restaurants, vehicles, public buildings, farms, homes, etc.

- Provides quick, safe, on-the-scene treatment of injuries.
- Contents based on statistics, to cover most accidents.
- Kits attach easily to a wall or can be easily removed and taken to an injured person.

Part No. 312101
Kit dimensions: 10-5/8" x 7-3/8" x 2-3/8"
for up to 25 people

COMPLETE REFILL in polybag
Part No. 312178

Part No. 312102
Kit dimensions: 13-3/4" x 9-1/4" x 2-1/4"
for up to 50 people

COMPLETE REFILL in polybag
Part No. 312189

NOTE: While school bus regulations vary by state, Our first aid kits meet many of the basic requirements.

DELUXE HANDYMAN FIRST AID KIT

- A well stocked kit, packed in a rust-proof reusable plastic container.
- Fits conveniently in the glove compartment.
- Provides essential supplies for emergencies on the road or elsewhere.

Part No.
312103

10-heavy woven adhesive strips
2-heavy woven extra large strips
2-heavy woven knuckle bandages
2-heavy woven fingertip bandages
2-sterile 3" gauge pads

1- roll 1/2" adhesive tape
10-antiseptic wipes
3-first aid/burn cream packets
3-sting relief wipes
2-motion sickness tablets

4-extra strength non-aspirin tablets
(for headaches and fever)
2-ibuprofen tablets (for muscular & feminine relief)
1-trilingual first aid instruction sheet
(english, spanish & french)

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SAFETY EQUIPMENT

DOT FIRST AID KIT

Used in mini buses and vans.

- **DOT approved.**
- **Metal gasketed case for demanding applications in fleet use.**
- **10 person kit.**

Kit includes:

16-adhesive strips, 3/4" x 3"
1-adhesive tape, 1/2" x 2 yds.
3-alcohol wound wipes
3-ammonia inhalants
12-aspirin tablets, 5 gr.
1-cold pack
2-eye pads
1-first aid/burn cream, 7/8 oz.
5-gauze pads, 4"
1-gauze bandage, 2" roll
3-sting relief wipes
1-scissors
1-triangular bandage
1-tweezers
1-instructions
2-nitrile gloves

Part No. 312104

COMPLETE REFILL
Part No. 312108

SCHOOL BUS FIRST AID KIT

- **Pennsylvania 10 unit school bus first aid kit.**

Kit includes:

16-adhesive strips
4-gauze pads, 3"
2-adhesive tape, 1"
4-bandage compress, 2"
2-bandage compress, 3"
2-gauze bandages, 2"
1-triangular bandage, 40"
1-gauze compress, 1728 sq. in.
4-eye pads
1-scissors

Part No. 312105

COMPLETE REFILL
Part No. 312107

PLASTIC STRIPS

- **Non-stick pad.**
- **3/4" x 3".**
- **Sterile.**

LARGER QUANTITY

Part No. 312125 100

FABRIC BANDAGES

- **Conforms easily to wounds.**
- **Stays put even when wet.**
- **3/4" x 3".**

Part No. 312199 100

KNUCKLE & FINGERTIP BANDAGES

- **Use for both knuckle & fingertips.**
- **Comfortable wound protection.**
- **Protects cuts, scrapes & abrasions.**
- **20 bandages per box.**

Part No. 312191

ADHESIVE PADS

- **For large cuts.**
- **2" x 3".**
- **Non-stick pad.**
- **Sterile.**

Part No. 312126 10

ADVIL TABLETS

- **Ibuprofen tablets, 200 mg. each tablet, non-prescription strength.**
- **Pain reliever / fever reducer.**
- **Provides temporary relief of minor aches, arthritis, muscle aches and headaches.**
- **50 individually wrapped packets of 2.**
- **Use only as directed. Read all warning labels before use.**

Part No. 312193

TYLENOL EXTRA-STRENGTH

- **Acetaminophen 500 mg. per pack.**
- **Pain reliever.**
- **Provides temporary relief of minor aches, arthritis, muscle aches & headaches.**
- **50 individually wrapped packets of 2.**
- **Use only as directed. Read all warning labels before use.**

Part No. 312194

IBUPROFEN TABLETS

Certi-Profen™ Tablets

- **200 mg., 50 packs of 2.**
- **Pain reliever / fever reducer.**
- **Same ingredients as ADVIL.**
- **Temporary relief of muscular aches, pain, headaches, inflammation & arthritis pain.**

Part No. 312193G

ACETAMINOPHEN EXTRA-STRENGTH

Certi-Cet™ Plus Tablets

- **500 mg., 50 packs of 2.**
- **Same ingredients as EXTRA-STRENGTH TYLENOL.**
- **Pain reliever.**
- **Temporarily relief from headaches, sprains & fever.**

Part No. 312194G

GAUZE PADS

- **3" x 3".**
- **Sterile.**
- **For large wounds and burns.**

Part No. 312129 10

ANTISEPTIC & BURN OINTMENT

- **Soothes wound.**
- **Relieves pain.**
- **Reduces danger of infection.**
- **20 packets.**

Part No. 312128

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SAFETY EQUIPMENT

ANTISEPTIC WIPES

- Wound cleaner.
- Promotes healing.
- Prevents infection.
- Individual foil packs.

Part No. 312127 10

EYE WASH

- Sterile.
- Soothes.
- Cleanses.
- Refreshes.
- 1/2 fl. oz. bottle.

Part No. 312134

EMERGENCY EYE & SKIN FLUSH

As soon as there is an eye injury, there's not a moment to waste, the quickest possible response is essential.

- Dual functions will treat both eye & skin accidents.
- Sterile solution provides immediate relief.
- Highly visible mounting stations may be mounted with screws or double stick tape.

Part No. 312166
Wall Mount Station with (1) 16 oz.
Flush Solution Bottle.

Part No. 312196
32 oz. Refill Flush Solution Bottle Only.

Part No. 312197
Wall Mount Station with (1) 32 oz.
Flush Solution Bottle.

Part No. 312198
(Dual) Wall Mount Station with (2) 32 oz.
Flush Solution Bottles.

FIRST AID KIT REFILL ASSORTMENT

- Contains one each of 5 different fast moving essential items.
- Contains: Alcohol, Burn Spray, Cut & Scrape, Hydrogen Perioxide & Sting Relief sprays.
- 2 oz. pump sprays fit easily into first aid cabinets, glove compartments, drawers or pockets.

Part No. 312172
5 pieces • 5 items

312167	312168	312169	312170	312171

Numbers in assortment

ISOPROPYL ALCOHOL

- Clean & sanitize minor cuts, scrapes & abrasions.
- Spray over affected area.
- Prevents infections, dries within seconds.
- 2 oz. pump spray.

Part No. 312167

BURN SPRAY

- For quick, soothing pain relief of minor burns.
- Cools & soothes damaged skin without trapping heat.
- Dries without leaving skin feeling sticky.
- 2 oz. pump spray.

Part No. 312168

CUT & SCRAPE

- Temporary pain relief & aid in preventimg infection.
- Effective against: MRSA drug resistant bacteria.
- 2 oz. pump spray.

Part No. 312169

HYDROGEN PEROXIDE

- Painless formula antiseptic treatment.
- Spray over affected area.
- Bubbles out dirt & bacteria.
- Allow to dry before bandaging.
- 2 oz. pump spray.

Part No. 312170

STING RELIEF

- Provides temporary relief from pain & itching caused by insect stings & bites.
- Spray affected area, feel relief fast.
- Dries instantly.
- 2 oz. pump spray.

Part No. 312171

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SAFETY EQUIPMENT

ABSORBENT PADS

UNIVERSAL TYPE ABSORBENT PADS

- **Absorbs all solvents, coolants, water and oil based chemicals.**
- **Ideal for use around machinery and equipment.**
- **For routine maintenance or where daily leakage and drips occur.**

Part No. 812546
17" x 19" x 1/8" - 100 per pak

PETROLEUM BASED TYPE ABSORBENT PADS

- **Absorbs oils and other petroleum based liquids.**
- **Will not absorb water based chemicals.**
- **These pads float and will not fall apart when used on water.**
- **Excellent for emergency aqueous environment clean-up.**

Part No. 812547
17" x 19" x 1/8" - 100 per pak

SPILL CLEAN-UP KIT

***RECOMMENDED FOR BLOOD & BODILY FLUIDS.**

Directions are on the back panel of the box.

Contains:
(1) bottle absorbent powder (2 oz.)
(1) scoop & spatula
(1) hard surface disinfectant cloth (EPA approved)
(1) biohazard bag
(1) unmarked bag (for non-infectious waste)
(1) pr. nitrile exam gloves
(2) antiseptic towelettes

Part No. 312106

EMERGENCY SPILL KIT

A spill kit is necessary to comply with OSHA hazardous material training program CFR 1910.120 and the department of transportation (D.O.T.) HM-126F Training requirements for hazardous materials employers.

- **Ready for immediate, cost effective response to oil, paint or petroleum based product spills.**
- **Easy to carry and fits behind most delivery vehicle seats, which allows delivery driver/worker to quickly and easily respond to emergency clean up of small spills and container leaks.**

Under the Department of Transportation regulation HM-126F, any employer who uses one or more employees to transport, load, unload or even handle hazardous materials in conjunction with their transportation is a Hazardous Materials (Hazmat) Employer. (This includes a tow truck operator who carries gasoline on the truck.)

Kit Includes:
(15) absorbent pads
(3) universal boom socks
(1) pair chemical splash goggles
(1) pair protective gloves
(2) all-purpose waste disposal bags

Part No. 812583
Sas No. SAS7750

DRUM-TOP PADS

Keep 55 gallon drums clean and neat.

- **Strong enough to stand up to fluid leaks from pumps and dispenser cans.**
- **Absorbs fluids and leaks from drum top pumps and dispenser cans.**
- **Great for drums that are stored outside.**

WHITE
For "Oil" Only

GRAY
For Solvents, Coolants, Water & Oil Based Chemicals

PART NUMBER	DESCRIPTION	PER BOX
812759	22" diameter (white) oil only bonded drum top pad	25
812758	22" diameter (gray) universal bonded drum top pad	25

SORBENT ROLL'S

- **Sonic bonded sorbents are constructed from a single layer of high quality uniform polypropylene fibers.**
- **The fibers then are sonically bonded together for added strength and to reduce lint fall off.**
- **Rolls are perforated for easy use.**
- **Roll size: 30" x 150'.**

WHITE
For Oil Base Liquids

GRAY
For All Liquids

GRAY CAMOFLAGE
Is Xtra Thick For All Liquids

PART NUMBER	SIZE	DESCRIPTION	ROLL QTY
812760	30" x 150'	Gray, universal	1
812761	30" x 150'	Camo Gray, xtra heavy	1
812762	30" x 150'	White, oil only	1

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SAFETY EQUIPMENT

SIGNS

9" x 12"
Part No. 812950
Aluminum - Double Faced

7" x 7"
Part No. 812933
Plastic

7" x 7"
Part No. 812930
Pressure Sensitive Vinyl

7" x 7"
Part No. 812928
Pressure Sensitive Vinyl
Part No. 812929
Plastic

Glow - 8" x 10"
Part No. 812943
Pressure Sensitive Vinyl

Glow - 2" x 10"
Part No. 812944
Pressure Sensitive Vinyl

7" x 17"
Part No. 812940
Plastic

12" x 18"
Part No. 812947
.040 Aluminum

12" x 18"
Part No. 812948
.040 Aluminum

4" x 18"
Part No. 812925
Pressure Sensitive Vinyl
Part No. 812926
Plastic

BUG OFF™ BRACELET

DEET FREE BUG REPELLENT

Part No. 211465 (12 per pack)

Most effective protection available in an easy to use form - no messy lotions or sprays.
REPELS mosquitoes, flies, gnats, fleas, ticks, head lice, no-see-ums. Non-toxic patented formula.

- **Waterproof.**
- **Will not stain clothing.**
- **Lasts up to 120 hours.**
- **No residue or unpleasant order.**
- **EPA exempt. Safe for use, no need for registration.**

Ideal for all outdoor workers: utilities, parks, golf courses, construction, road repair, police & traffic control.

HOW DOES BUG OF BRACELET WORK? The active ingredient **Geraniol** is infused into the plastic wristband and given off as a time-released vapor so no liquid chemical touches the skin. The vapor repels insects several feet away, before they land. You can wear a band on your wrist, ankle, belt loop or hatband.

SEAT BELT

- **Quick release metal-to-metal, 100% all nylon webbing.**
- **Only premium quality steel.**
- **Hardware not included.**
- **90° mounting brackets.**
- **74" belt - with sewn hardware used on buses, trucks, etc.**
- **Color: Black.**

Part No. 638400

EMERGENCY SEAT BELT KNIFE

- **Small, light weight.**
- **Cuts seat belts fast in an emergency.**
- **Bright color for easy visibility.**
- **Designed to prevent accidental cuts.**

Part No. 638403

IVYX™ PRE-CONTACT TOWELETTE

Poison Oak & Ivy Formula

Part No. 211491
(25 per pack)

- **Handy pre-contact towelettes can prevent rashes from exposure to poison ivy, poison oak or sumac.**
- **Apply this poison barrier before outdoor work using individually wrapped towelettes to ensure even coverage.**
- **Packaged 25 handy towelette packets per dispenser box.**

SAFETY CONES

Height: 18"

- **DOT approved.**
- **Form traffic lanes for fast lubes.**
- **Protects work crews near roads.**
- **High visibility.**
- **Unbreakable.**

Part No. 812700 10

FLUORESCENT MESH SAFETY FLAG

Mounted on 3/4" x 27" staff.

- **These 18" x 18" mesh flags are made of fluorescent orange knitted vinyl mesh material.**
- **Recommended to be used on fast moving vehicles.**
- **These flags will overcome the objections from "whipping", such as cracking, peeling, or fraying.**

Part No. 812748 (6)

MASTER® SAFETY LOCKOUT HASP

- **Control cannot be turned on until last worker's padlock is removed.**

- **Keeps equipment inoperative while repairs or adjustments are made.**
- **Attach device to energy disconnect switch.**
- **Insulated with bright vinyl coating.**
- **Heavy gauge steel resists prying.**
- **1" diameter jaws.**
- **Lockout by up to 6 workers at each lockout point.**

Part No. 915334 2

See catalog section "G17" for more padlocks, keys & accessories.

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G - SERVICE ITEMS

G10	WINDSHIELD WIPERS & PARTS	G10
G11	SOCKETS/PIGTAILS/ CONNECTORS	G11
G12	SWITCHES/SENSORS/ CONNECTORS	G12
G13	FLASHERS & BULBS	G13
G14	CIRCUIT PROTECTION	G14
G15	FLEET SERVICE	G15
G16	AUTOMOTIVE SERVICE TOOLS	G16
G17	KEY CUTTERS & BLANKS	G17
G18	E-Z PAKS	G18

G-SERVICE ITEMS

G10-WINDSHIELD WIPER & PARTS

Wiper Blades / Refills G10-1-3
Anco G10-3
31-Series G10-3
Aerovantage G10-3
Rainy Day G10-3
Bosch G10-1
Bracketless G10-1
Direct Connect G10-1
Evolution All Season G10-1
Micro Edge G10-1
Top Lock Adapter G10-1
Winter Snow G10-1
Trico G10-2
Exact Fit G10-2
Winter G10-2
Tridon G10-2
All Season Plus G10-2
Cut-To-Fit G10-2
Wiper Linkage Bushing G10-3
Wiper Washer Hose G10-3

G11-SOCKETS, PIGTAILS & CONNECTORS

OPEN BARREL TERMINALS/ CONNECTORS
Cable Seals G11-9
GM
Mate-N-Lock G11-10
Metri-Pack Series G11-8
Splice Clips G11-8
Weather-Pack G11-9
Tools G11-10
SOCKETS/PIGTAILS
Ford
Electrical Repair Harness G11-2
Engine Management G11-5
Heating/AC/Cooling System G11-5
Interior/Dash G11-5
Lighting G11-3
Miscellaneous G11-5
Chrysler
Electrical Repair Harness G11-2
Lighting G11-2
GM
Alternator/Regulator G11-6
Electrical Repair Harness G11-3
Engine Management G11-7
Heating/AC/Cooling System G11-7
Ignition System G11-6
Interior/Dash G11-6
Miscellaneous G11-7
Lamp Sockets
Chrysler G11-1-2
Ford G11-1-2
GM G11-3-4
Miscellaneous G11-5
Universal G11-1, 3
Import & Universal
Electrical Repair Harness G11-3

G12-SWITCHES, SENSORS & HORNS

Disconnect/Selector Switches G12-3
Foot Operated Floor Switch G12-3
Horns G12-4
Indicator Lights G12-2
Marine Switch G12-2
Push Button Switches G12-2
Push-Pull Switches G12-2
Relays G12-4
Rocker Switches G12-2
Rubber Boot G12-2
Solenoid, Continuous Duty G12-3
Toggle Switches G12-1
Universal Buzzer G12-3

G13-FLASHERS & BULBS

12 Volt Tractor/Flood G13-2
Flashers
Electronic G13-1
Halogen Bulbs/Capsules G13-1-2
Miniature Bulbs G13-3-5
Assortment G13-3
Sealed Beams/Headlamps G13-2
Tractor/Utility Light G13-2
Wagner's
Assortment G13-3
BriteLite G13-2
Miniature Bulb / Lighting Prog G13-3
Storage Bin Merchandiser G13-3

G14-CIRCUIT PROTECTION

Add-A-Circuit G14-7
Assortments
Bolt-On Fuse G14-4
E-Z (ATC, ATO) Fuse G14-1-2
FMX JCase
High Amp Fuse G14-3
Low Profile G14-3
Glass Fuse G14-2
High Amp G14-4
LED Indicator Glow Fuse G14-1-2
Low Profile Mini G14-1
Master Fuse G14-2
Maxi Fuse G14-1
Mini Circuit Breaker G14-5
Mini Fuse G14-1
Circuit Breakers G14-5-6
Circuit Protection Accessories G14-7
Fuse Holders G14-4, 7
Fuse Panels G14-7
Fuse Taps G14-4
Fuse Tester & Pullers G14-4
Fuses
3 AG (AGC)
Fast Acting Fuse G14-4
Bolt-On G14-4
Cartridge G14-4
Ceramic G14-2
E-Z (ATC, ATO) G14-1
FLNR Dual Element Time Delay . . G14-4
FMX JCase
High Amp G14-3
Low Profile G14-3
Glass G14-2
High Amp G14-4
Holders G14-4, 7
LED Indicator Glow G14-1
Low Profile Mini G14-1
Maxi G14-1
Mini G14-1
Pal G14-3
Fusible Links G14-3

G15-FLEET SERVICE

7-Way Circuit Checker G15-25
Air Brake Parts & Accessories . . . G15-27
Back-Up Alarm Switch G15-20
Back-Up Alarms G15-20-22
Brackets G15-4, 20, 26
Conspicuity Tape G15-19
Control Cables G15-26
Evacuator Heavy Duty Electronic Back-Up Alarms G15-20
Flat Male 4-Prong Connector G15-25
Fluorescent Orange Guide Kits . . G15-26
Gladhand/Seals G15-27
GM License Plate Lamp G15-20
Heavy Duty Back-Up Alarm G15-21
Hold-Down Latches G15-26
Hose Protectors G15-24
Junction Box G15-16
Latches & Brackets G15-26
Light Duty Electronic Solid State Alternating Alarm G15-21
Lighting
Arrow G15-1
KD G15-1
Star G15-22
Truck-Lite
Back-Up Lighting G15-11
Clearance & Marker Lighting G15-5-8
Conspicuity & Reflector Systems G15-12
Harness Systems G15-16
Identification Bar Lighting G15-9
Interior & Utility Lighting G15-12
License G15-11
Mounting Accessories . . . G15-13-14
Receptacles & Accessories . . G15-16
Sockets & Plugs G15-15
Stop, Turn & Tail Lighting . . G15-9-10
Strobe G15-10
Val-U G15-17-18
Weldon G15-2
Mirrors
Arm & Mounting Only G15-4
Bracket G15-4
Bus Boy G15-4
Convex G15-3-4
Delbar G15-3
Double Nickel G15-3
Mini Hawk-Eye G15-4
MirrorLite G15-3
Miscellaneous G15-4
Retrac G15-4
West Coast G15-3
Plug Cleaner G15-25
Reflective Tape G15-19
Reflectors G15-12, 19
Strobes G15-22-23
Trailer Lighting Cable G15-25
Trailer Taillite Converter G15-25
Trailer Wire Connectors G15-24-25
Triangle Reflector Kit G15-12
Truck Hardware G15-26
Universal License Plate Bracket . G15-20
Universal Snow Plow/ATL Lights . G15-23
West Coast Mirror G15-3
Work Lamps G15-23

G16-AUTOMOTIVE SERVICE TOOLS

Battery Service/Tools G16-10-11
Brake Repair Tools G16-14-15
Electrical Service Tools G16-11
Engine Service Tools G16-12-13
Exhaust Tools G16-13
Fuel line Tools G16-11
Ignition Service Tools G16-11
Leak Detection Dyes G16-11
Lubrication Tools & Accessories . . . G16-1-9
Tire Repair Tools G16-15-16
Vacuum Tools G16-11
Wheel Repair Tools G16-15-16

G17-KEY CUTTERS/ BLANKS

Assortment G17-1
Cutter Wheel G17-1
Deburring Brush G17-1
Hasps G17-10
Key Blanks
Domestic Automotive G17-2-4
General Purpose G17-6-8
Heavy Truck G17-4
Import Automotive G17-5
Interchange G17-11
Miscellaneous G17-8-9
R/V's G17-8-9
Tractor G17-4
Lock De-Icer G17-10
Lock Ease G17-10
Lockout Tool G17-11
Padlock Accessories G17-10
Padlocks G17-9-10
Rings G17-1
Safety Lockout Hasp G17-10
Tags G17-1
Utility Locks G17-10

G18-E-Z PAKS

Assortments
Automotive G18-2-4
Grade 5 Basic G18-2
Grade 5 Supplementary G18-3
Grade 8 . . . . . G18-4
Metric G18-7
E-Z Pak Fastener Refills G18-5-6
E-Z Pak Metric Fastener Refills . . . G18-8-9

NOTES

WIPER BLADES

BOSCH® Micro Edge Blades: The Ultimate in Wiping Action, Styling & Fit

– BOSCH BLADES –
THE PREMIUM BLADE FOR THE CUSTOMER WHO WANT THE BEST

- Aerodynamic OE style steel frame.
- Superior wiping performance.
- Original equipment on luxury imports.
- Rack available* – #12146.

– INDIVIDUAL BLADES AVAILABLE –
1 BLADE PER PACKAGE

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
11	**11911**	10	20	**11920**	10
13	**11913**	10	21	**11921**	10
15	**11915**	10	22	**11922**	10
16	**11916**	10	24	**11924**	10
17	**11917**	10	26	**11926**	10
18	**11918**	10	28*	**11928**	10
19	**11919**	10			

*** Micro Edge Excel** **† Application Guide (PB84) available upon request.**

Solves these wiping problems:

- Difficult blade installation and subsequent removal.
- Blade lift-off at high speeds and in stiff head winds.
- Smearing and streaking on both forward and reverse strokes.
- Rubber fatigue caused by abrasion, temperature extremes, UV light, ozone, acid rain and road salt.
- Noisy operation.

BOSCH® Evolution All Season *BRACKETLESS* Wiper Blades

- 10 part numbers, for 89% coverage of most domestic and imported vehicles.
- Latest, patented OE technology for clean, consistent wipe.
- Graphite-treated wiping edge.
- Aerodynamic wind spoiler.

BOSCH Evolution wiper blades are BRACKETLESS wiper blades for all-season wiping performance.

Aerodynamic wind spoiler
- Individual radius along each millimeter creates tension memory.
- Apply uniform pressure along the entire blade length.

Dual precision-tensioned steel springs
- Improves airflow to create down force.
- Protects tension springs from snow and ice build-up.

– INDIVIDUAL BLADES AVAILABLE –
1 BLADE PER PACKAGE

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
16	**14816**	5	21	**14821**	5
17	**14817**	5	22	**14822**	5
18	**14818**	5	24	**14824**	5
19	**14819**	5	26	**14826**	5
20	**14820**	5	28	**14828**	5

† Application Guide (PB11) available upon request.

NEW Evolution *"Top Lock Adapter"*

- COMPLETE with NEW "Top Lock Adapter"
- These three numbers will cover most Volvo & GM OE application sets.

APPLICATION		USE PART NUMBER DRIVER SIDE	USE PART NUMBER PASSENGER SIDE
2008-05	Pontiac G6	**14842**	**14840**
2008	Chevrolet Malibu	**14842**	**14840**
2008-07	Saturn Aura, Buick Lucerne	**14842**	**14840**
2008-07	GMC Sierra, Yukon, Cadillac Escalade	**14841**	**14841**
	Chevrolet Avalanche, Silverado, Suburban, Tahoe	**14841**	**14841**
2008-05	Mercedes-Benz SLK-Class	**14841**	**14841**
2008-05	Volvo 560, 580, V70, XC70, XC90	**14842**	**14841**
2008-05	Cadillac STS	**14842**	**14840**

SIZE (INCHES)	PART NUMBER	QTY
21	**14840**	5
22	**14841**	5
24	**14842**	5

† Application Guide (PB84) available upon request.

BOSCH® DirectConnect: NOW WITH ALL STEEL FRAME

– INDIVIDUAL BLADES AVAILABLE –
1 BLADE PER PACKAGE

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
11	**14911**	10	20	**14920**	10
13	**14913**	10	21	**14921**	10
15	**14915**	10	22	**14922**	10
16	**14916**	10	24	**14924**	10
17	**14917**	10	26	**14926**	10
18	**14918**	10	28	**14928**	10
19	**14919**	10			

† Application Guide (PB84) available upon request.

BOSCH DirectConnect wiper blades are equipped with the exclusive DirectConnect one-step installation system. This system allows easy installation for over 92% of vehicle applications with no adapters required.

BOSCH® WINTER *SNOW* BLADES

– INDIVIDUAL BLADES AVAILABLE –
1 BLADE PER PACKAGE

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
16	**12916**	10	20	**12920**	10
18	**12918**	10	22	**12922**	10

- Same quality features with protective rubber cover.

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WIPER BLADES

TRIDON® *ALL SEASON PLUS*™ WIPER BLADES AND REFILLS

The standard Tridon Original Equipment replacement for over 15 years.

- **A unique adapter system makes installation on almost all major windshield arms fast and easy.**
- **These wiper blades feature a composite frame that will not rust or bend out of shape.**
- **The newly tapered squeegee is treated with a special baked on coating for smooth, quiet wiping performance and a longer life.**
- **Up to eight contact points deliver even pressure on today's highly curved windshields.**
- **Contact points deliver even pressure across the length of the blade, and an even wipe across your windshield.**

– INDIVIDUAL BLADES AVAILABLE –

1 BLADE PER PACKAGE

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
11	**11455**	10	19	**11461**	10
13	**11456**	10	20	**11462**	10
15	**11457**	10	21	**11448**	10
16	**11458**	10	22	**11467**	10
17	**11460**	10	24	**11468**	10
18	**11459**	10	28	**11028****	10

***1997-93 Camaro, Firebird**
****All Metal - 2001-96 Dodge & Chrysler Minivans**

TRIDON® *CUT-TO-FIT ALL SIZE REFILLS* ™

Tridon® Cut-To-Fit Refills feature scores every 13mm-1/2" so customers can "snap" at precisely the desired length.

- **Cover all your customer's refill requirements with only 3 part numbers.**
- **All Size Refills eliminate frustration. One pair of refills services vehicles with two different length wiper blades.**
- **Unique specially baked coating on squeegee provides smooth, quiet wiping performance and longer life.**

EASY TO INSTALL:
1. Install refill leaving excess extending out of blade.
2. Snap All Size backing at correct length.
3. Cut squeegee even with the plastic backing.

SIZE (INCHES)	BACKING WIDTH	PART NUMBER	QTY
11-24	8mm-5/16	**11400**	10
20-24	9mm-3/8	**11485**	10
15-24	6mm-1/4	**11464**	10

– BACKING WIDTH –

REGULAR	WIDE	THIN
8mm-5/16”	9mm-3/8”	6.mm-1/4”

TRICO EXACT FIT® BLADES

Guaranteed one-step installation exact fit replacement.

- **All steel construction for strength and durability.**
- **Chosen by World Class Automobile Manufacturers.**
- **Fast and easy installation.**
- **Highest quality natural rubber wiping edge available.**
- **No loose clips or adapters.**
- **AA & A numbers give 90% coverage on all domestic & import cars & trucks.**

– INDIVIDUAL BLADES AVAILABLE –

1 BLADE PER PACKAGE

SIZE (INCHES)	POP CODE	TRICO NUMBER	PART NUMBER	QTY
11	B	11-1	**TR1101**	10
11	C	11-6	**TR1106**	10
12	A	12-2	**TR1202**	10
13	B	13-1	**TR1301**	10
14	C	14-1	**TR1401**	10
14	B	14-2	**TR1402**	10
14	C	14-8	**TR1408**	10
15	A	15-1	**TR1501**	10
16	A	16-1	**TR1601**	10
16	AA	16-2	**TR1602**	10
16	C	16-8	**TR1608**	10
17	A	17-1	**TR1701**	10
17	A	17-3	**TR1703**	10
18	AA	18-1	**TR1801**	10

SIZE (INCHES)	POP CODE	TRICO NUMBER	PART NUMBER	QTY
18	AA	18-2	**TR1802**	10
18	A	18-3	**TR1803**	10
18	C	18-5	**TR1805**	10
18	C	18-8	**TR1808**	10
18	A	18-10	**TR1810**	10
19	AA	19-1	**TR1901**	10
19	A	19-2	**TR1902**	10
19	B	19-3	**TR1903**	10
19	C	19-7	**TR1907**	10
19	C	19-9	**TR1909**	10
20	AA	20-1	**TR2001**	10
20	AA	20-2	**TR2002**	10
20	B	20-3	**TR2003**	10
20	A	20-4	**TR2004**	10

SIZE (INCHES)	POP CODE	TRICO NUMBER	PART NUMBER	QTY
20	C	20-8	**TR2008**	10
20	C	20-9	**TR2009**	10
21	AA	21-1	**TR2101**	10
21	C	21-9	**TR2109**	10
22	A	22-1	**TR2201**	10
22	AA	22-4	**TR2204**	10
22	C	22-9	**TR2209**	10
23	C	23-1	**TR2301**	10
24	AA	24-1	**TR2401**	10
24	B	24-4	**TR2404**	10
24	C	24-9	**TR2409**	10
28	C	28-9	**TR2809**	10

*** Application Guide (PB16) available upon request.**

TRICO® WINTER BLADES

- **All Metal Blade provides strength and durability.**
- **Adapters in each package provide easy installation every time.**
- **Wipe area coverage meets industry standards.**
- **New lower connection point provides better contact and superior wipe.**
- **Most extensive coverage - industry leader since 1953.**

– INDIVIDUAL BLADES AVAILABLE –

1 BLADE PER PACKAGE

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
11	**37111**	10	20†	**37201**	10
13	**37131**	10	20	**37205**	10
15	**37150**	10	22†	**37220**	10
16†	**37160**	10	22	**37225**	10
16	**37165**	10	24	**37245**	10
18†	**37180**	10	26	**37260**	10
18	**37185**	10	28	**37280**	10

† 5 top numbers give 85% coverage.
*** Application Guide (PB16) available upon request.**

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WIPER BLADES / WINDSHIELD WASHER PARTS & FANS

ANCO® 31-SERIES WIPER BLADES

– INDIVIDUAL BLADES AVAILABLE –
1 BLADE PER PACKAGE

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
15	AN3115	10	21	AN3121	10
16	AN3116	10	22	AN3122	10
17	AN3117	10	24	AN3124	10
18	AN3118	10	26	AN3126	5
19	AN3119	10	28	AN3128	5
20	AN3120	10			

* Application Guide (PB87) available upon request.

Reliable Wiper Performance

- DuraKlear™ rubber compound provides a consistent, clear wipe.
- Vented bridge and metal flexor for O.E. fit and function.
- KwikConnect System™ installs and removes easily.

ANCO® AEROVANTAGE WIPER BLADES

– INDIVIDUAL BLADES AVAILABLE –
1 BLADE PER PACKAGE

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
12	AN9112	10	18	AN9118	10
13	AN9113	10	19	AN9119	10
14	AN9114	10	20	AN9120	10
15	AN9115	10	21	AN9121	10
16	AN9116	10	22	AN9122	10
17	AN9117	10	24	AN9124	10

*** Application Guide (PB87) available upon request.**

Clear Wipe At Any Speed

- Advanced DuraKlear-Plus™ wiper element provides a streak free wipe.
- Aerodynamic design maintains wipe at highway speed.
- KwikConnect System™ installs and removes easily.

ANCO® RAINY DAY WIPER BLADES

SIZE (INCHES)	PART NUMBER	QTY	SIZE (INCHES)	PART NUMBER	QTY
15	10015	5	21	10021	10
16	10016	10	22	10022	10
17	10017	10	24	10024	5
18	10018	10	26	10026	5
19	10019	10	28	10028	10
20	10020	10			

*** Application Guide (PB37) available upon request.**

Rainy Day Metal Blades -
the perfect alternative to the plastic blade.

- OE style steel frame.
- Up to eight contact points ensure better windshield wrap for superior wiping performance.
- Unique universal clip system for easy installation.

WIPER LINKAGE BUSHING

- Available separately from linkage.
- No need to replace expensive wiper linkage.
- Restores positive wiper action.
- Broken bushings make wipers inoperative.
- Fits Chrysler, 1974 to current models.

Part No. 11471 (12)

WET ARM WIPER HOSE

Replaces hose on wiper arm washer systems.

- .093 I.D. x .156 O.D.
- Thin wall hose fits in wiper arm just like original. Regular wiper hose won't fit.
- Super soft - Super flexible.

Part No. 11421
50' boxed

Part No. 11422
100" boxed

WINTER/SUMMER FANS

Buses, Trucks, Golf Carts, Boats and other DC Applications

- 6-1/2" diameter.
- 820 CFM at 13.8 Volts, 3 Amps.
- Weight: 2.9 lbs.
- Motor: 2 speed.
- Spring lock position.
- Ball joint suspension.
- Counter-clockwise rotation.
- Toggle switch.
- Metal guard.

Part No. 418025
12 Volt Heavy Duty

Part No. 418026
24 Volt Heavy Duty

- Motor: 2 speed.
- Metal fan blade.
- Chrome plated grill, motor & base.
- Swivel base.
- High efficiency permanent magnet motor.
- Toggle switch.

Part No. 418027
12 Volt Medium Duty

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UNIVERSAL/CHRYSLER/FORD LAMP SOCKETS

DOUBLE CONTACT

Includes phenolic disc and spring
(2) 18 ga. wire leads
OEM: Universal
Bulb no.'s 64, 68, 82, 88, 90, 94, 210, 1004, 1034, 1074, 1130, 1154, 1157, 1158, 1176

Part No. 32301 (12)

3 PRONG HALOGEN SEALED BEAM

(3) 18 ga. wire leads
OEM: Universal - Most makes and models
Bulb no. - All three prong sealed beams.

Part No. 32334 6

SINGLE CONTACT

Includes phenolic disc, and spring
(1) 18 ga. wire lead
OEM: Universal
Bulb no.'s 63, 67, 81, 89, 93, 209, 1003, 1073, 1129, 1133, 1141, 1156

Part No. 32302 (12)

3 PRONG HALOGEN BULB

(3) 18 ga. wire leads
Chrysler, Ford, GM
OEM: Universal
Bulb no. 9004, 9007

Part No. 323600

INSTRUMENT

Fits 1/2" hole
1989-76 Chrysler products
OEM: 12004311, 25015169
Bulb no. 194

Part No. 32361 (12)

STOP, TAIL, TURN LAMP

(3) 18 ga. (GPT) wire leads
1992-89 Chrysler products & Dodge Truck
OEM: N/A
Bulb no. 1157

Part No. 323816

SIDEMARKER

OEM: 3588314
Bulb no.'s 194, 194A

Part No. 323612

HEADLAMP REPAIR HARNESS

(2) 18 ga. 6" leads
Audi, BMW, Hyundai, Kia, Mazda, Mercedes, Mini Cooper, Saab & Subaru
OEM: N/A
Bulb no. H7

Part No. 323850

SIDEMARKER

(2) 18 ga. wire leads
1988-69 Ford products
OEM: D7AZ, D7FZ-13412-A, D4OZ-13410-E, DODZ-15A434-B
Bulb no.'s 194, 194A

Part No. 32314 (6)

STOP, TURN, TAIL, PARK LAMP

(3) 18 ga. wire leads, double contact
OEM: N/A
Bulb no. 1157

Part No. 323712

STOP, TURN, TAIL, PARK LAMP

(3) 18 ga. wire leads, double contact
OEM: D1FZ-13234-A
Bulb no. 1157

Part No. 32367 (4)

TAIL LAMP

1996/on Chrysler Mini Vans, Dodge Trucks & Jeep Gr. Cherokee
OEM: 4676589, 88860570, LS170
Bulb no. 3157

Part No. 323856

STOP, TAIL, TURN, PARKING & MARKER LAMP

2003-90 Chrysler "LH", Neon & Mini Vans
Dodge Dakota, Durango & Vans
OEM: 4399900, 88860571, LS171
Bulb no. 3157

Part No. 323864

LICENSE PLATE HARNESS ASSEMBLY LAMP

2004-84 Chrysler Cars, Mini Vans & Dodge Dakota
OEM: 4414184, 88860460, LS150
Molded lamp socket accepts 168 & 194 wedge based bulbs.
Connector mates with body harness.

Part No. 323859

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FORD/CHRYSLER LIGHTING & ELECTRICAL REPAIR HARNESS and SOCKET BASES

STOP, PARK & TURN SIGNAL STANDARD LOCKING EARS

Use with harness no. 323713
1991/on Ford Cars & Trucks
OEM: F1TZ-13411-F, 88860591, LS184
Bulb no. 3157

Part No. 323821

BACK-UP LAMP

Green straight housing
Use with harness no. 323837
2000/on Ford Cars & Trucks
OEM: 2U5Z-13411-RA
Bulb no. 3156

Part No. 323835

BACK-UP, PARK & STOP SIGNAL STANDARD LOCKING EARS

Use with harness no. 323714
1991/on Ford Cars & Trucks
OEM: F1TZ-13411-B, 88861079, LS214
Bulb no. 3156

Part No. 323825

PARK, TURN SIGNAL & TAIL & SIDE MARKER LAMP

Brown straight housing
Use with harness no. 323838
1998/on Ford Cars & Trucks
OEM: 2U5Z-13411-SA
Bulb no. 3157

Part No. 323836

BACK-UP, PARK & STOP SIGNAL STANDARD LOCKING EARS

Use with harness no. 323714
1990/on Ford Cars & Trucks
OEM: F1TZ-13411-G, 88861080, LS215
Bulb no. 3156

Part No. 323826

SIGNAL LAMP

Green 90° housing
Use with harness no. 323837
2003/on Ford Escape
OEM: 2U5Z-13411-HA
Bulb no. 3156

Part No. 323843

PARK & TURN SIGNAL 40/60 LOCKING EARS

1993/on Ford Cars & Trucks
OEM: F3LY-13411-A, 88861081, LS216
Bulb no. 3157

Part No. 323827

STOP/TAIL SIGNAL 40/60 LOCKING EARS

Brown 90° housing
1996/on Ford Cars & Trucks
OEM: F6DZ-13411-A
Bulb no. 3157

Part No. 323846

STOP, TAIL & TURN SIGNAL 40/60 LOCKING EARS

1994/on Ford Cars & Trucks
OEM: F47Z-13411-A, 88861082, LS217
Bulb no. 3157

Part No. 323828

STRAIGHT LAMP

Brown hardshell
(3) 18 ga. TXL 8" leads
1998/on Ford Focus, Escape, Ranger, Explorer, Mountaineer, F150 & F-Super Duty
OEM: 88988117, PT1774
Wedge bulb

Part No. 323838

90° LAMP

Black hardshell
(3) 18 ga. TXL 8" leads
1995/on Ford Focus, Escape, Expedition, Navigator, Explorer, Mountaineer, Ranger, Free Star, Monterey, F150, F-Super Duty & Excursion
OEM: 3U2Z-14S411-CKAA, WPT-671, 88988139, PT1783
Wedge bulb

Part No. 323840

90° LAMP

Grey hardshell
(2) 18 ga. TXL 8" leads
1998/on Ford Focus, Escape, Explorer, Mountaineer, Expedition, Navigator, F150 & F-Super Duty
OEM: 3U2Z-14S411-DMAA, WPT-702, 88988109, PT1786
Wedge bulb

Part No. 323839

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GM/IMPORT/UNIVERSAL ELECTRICAL REPAIR HARNESS and SOCKET BASES

PARK, TURN SIGNAL, TAIL & CORNERING LAMP

(3) 18 ga. TXL 8" leads
2004-92 GM
OEM: 15306194, 12141302, LS96, LS40
Bulb no.'s 1157, 2057

Part No. 323852

BACK-UP & TURN SIGNAL

Body: Cream, Insert: Grey
(2) 18 ga. TXL 8" leads
1999/on GM Cars & Lt. Duty Trucks
OEM: 15306312, LS97
Bulb no.'s 3156, 4156

Part No. 323861

BACK-UP, PARK, TURN SIGNAL, STOP & TAIL LAMP

(3) 18 ga. TXL 8" leads
2005-93 GM
OEM: 12141493, LS49
Bulb no.'s 1157, 2057

Part No. 323853

DAYTIME RUNNING & TURN SIGNAL

Body: White, Insert: Natural
(2) 18 ga. TXL 8" leads
1999/on GM Cars & Lt. Duty Trucks
OEM: 15306157, LS94
Bulb no.'s 3156, 4156

Part No. 323862

HEADLAMP BULB

(2) 18 ga. TXL 8" leads
1998/on GM, Audi, Porsche, Mini, VW, Volvo & Mazda
OEM: 88987187, PT1634
Bulb no. H9

Part No. 323858

BLOWER MOTOR RESISTOR & VARIOUS RELAYS, SWITCHES & ACTUATORS

(7) 12 ga. TXL 8" leads
1990/ON GM Lt. & Med. Duty Trucks & Cars
OEM: 15862656, 88953358, PT1650, PT2195
Blower motor resistor no.'s 89019088, 89019089, 89019100

Part No. 323866

PARK/TURN, STOP/TAIL & TURN SIGNAL

Body: Brown, Insert: Tan
(3) 18 ga. TXL 8" leads
1999/on GM Lt. Duty Trucks
OEM: 15306147, LS92
Bulb no.'s 3057, 3157, 3357, 4157, 4114K

Part No. 323860

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GM LAMP SOCKETS

SIDEMARKER

(2) 18 ga. wire leads
1988-69 Ford & GM products
OEM: 6294015, 6298935, 8901283, 8918527
Bulb no.'s 194, 194A
Part No. 32314 (6)

HALOGEN BULB

(2) 18 ga. wire leads
OEM: N/A
Bulb no. 9006
Part No. 323601

STOP, TURN, PARK, TAIL LAMP

(3) 18 ga. wire leads,
double contact
OEM: 8903202, 8214822
Bulb no. 1157
Part No. 32315 (4)

SIDEMARKER

(2) 18 ga. wire leads
1988/on GM products, most models
OEM: 12083007,
Delco LS-13
Bulb no. 24
Part No. 323661

SIDEMARKER, LICENSE, TAIL LAMP

(2) 18 ga. wire leads
1971/on GM products
OEM: 12001470
Bulb no.'s 194, 194A
Part No. 32363 (4)

STOP, TURN, PARK, TAIL LAMP

(3) 18 ga. wire leads
Color: White
1990/on Lumina (car) Regal, Cutlass 4 Dr.
OEM: 12083689,
Delco LS-15
Bulb no.'s 3057, 3157, wedge base
Part No. 323669

STOP, TURN, TAIL LAMP

(3) 18 ga. wire leads,
double contact
OEM: 12013813, 8919916
Bulb no. 1157
Part No. 32365 2

SEALED BEAM W/FIBER OPTICS

(3) 16 ga. wire leads
OEM: N/A
Part No. 323700

STOP, TURN, PARK, TAIL LAMP

(3) 18 ga. wire leads,
double contacts
1977/on GM cars and light trucks
OEM: 12003759, 812893
Bulb no.'s 1034, 1154, 1157
Part No. 32374 2

REAR SIDEMARKER

(2) 18 ga. wire leads
1982/on GM products
OEM: 12083460,
Delco LS-32
Bulb no. 194
Part No. 323715

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MISCELLANEOUS/FORD INTERIOR/DASH/HEATING/COOLING and ENGINE MANAGEMENT SOCKETS

FUEL INJECTOR

Fits imports and domestics
Center index slot, Lucas & Bosch
(2) 18 ga. wire leads and one spring retainer
OEM: N/A

Part No. 316117

FLASHER

Fits all 3 prong flashers
(3) 18 ga. wire leads
OEM: Universal

Part No. 323622 2

FLASHER

Fits all 2 prong flashers
(2) 18 ga. wire leads
OEM: Universal

Part No. 323621 2

OIL SENDER

Fits .160 round male stud
on oil sender
(1) 16 ga. wire lead
Right angle molded socket
Universal
OEM: N/A

Part No. 323639

INSTRUMENT

Fits 1/2" hole
1989-68 Ford products
OEM: C8OZ-13711-A,
E7GZ-13711-A
Bulb no. 194

Part No. 32361 (12)

POWER BRAKE SWITCH

Fits pedal mounted switches
(2) 16 ga. wire leads
OEM: N/A

Part No. 323709 2

HEADLAMP SWITCH

(3) 20 ga. wire leads, (4) 18 ga. wire leads
(1) 16 ga. wire lead, (1) 12 ga. wire lead
Fits Ford headlamp
switch no. E7TZ-1654-C
1987/on F-series trucks
OEM: N/A

Part No. 323673

HEADLAMP SWITCH SOCKET

(1) 12 ga. wire lead, (2) 14 ga. wire leads
(6) 18 ga. wire leads
Fits switch #56007043 using 9 or 8 leads.
Dodge Dakota, "B" Vans,
full size pick-up 90/on
OEM: 4728204

Part No. 323785

TURN SIGNAL SWITCH

(6) 16 ga. wire leads
(2) 18 ga. wire leads
Fits switch no. E7FZ-13341-A
1985/on Ford products
OEM: N/A

Part No. 323707

RADIATOR COOLING FAN

(2) 12 ga. wire leads, (1) 10 ga. wire lead
Fits fan shroud assemblies
F5CZ-8C607-A and F4DZ-8C607-B
1996-90 Ford Taurus, Sable,
Continental, Escort
OEM: N/A

Part No. 323796

All socket assemblies sold with 9" leads.

OIL PRESSURE SENDER

Fits .160 round male stud
on sender
(1) 16 ga. wire lead
Right angle molded socket
Universal
OEM: N/A

Part No. 323639

FUEL PUMP
SENDING UNIT

Includes 6 replacement terminals
Ford products
OEM: N/A

Part No. 323653

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GM INTERIOR/DASH/ALTERNATOR/REGULATOR and IGNITION SOCKETS

INSTRUMENT

Fits 5/8" hole
1961/on GM, Ford, Chrysler
OEM: 2496279, 2973932, 5655006
Bulb no. 194

Part No. 32360 (12)

INSTRUMENT

Fits 1/2" hole
1989-55 GM products
OEM: 3744750
Bulb no. 194

Part No. 32361 (12)

HEADLAMP SWITCH

(1) 12 ga. wire lead
(5) 18 ga. wire leads
Fits GM switch no. 1995217
1968/on GM products
OEM: N/A

Part No. 323671

ALTERNATOR

(1) 12 ga. wire lead, (1) 16 ga. wire lead
Fits Delcotron Models
10-SI, 12-SI, 15-SI and 27-SI
with internal regulators
1971/on GM products
OEM: 12101909, Delco PT-181

Part No. 32320 (6)

INTERNAL REGULATOR

1116411 and 1116408
(1) 12 ga. wire lead, (3) 18 ga. wire leads
1986/on GM products
OEM:N/A

Part No. 323677

MODULE

(2) 18 ga. wire leads
Fits modules OEM 1987465, 66, 1103634,
1989747, 1894308, 1894485, 10496541
Use with pigtail 323646
1985/on GM products
OEM: 12101899, Delco PT169

Part No. 323627

IGNITION SWITCH

(1) 10 ga. wire lead
(2) 12 ga. wire leads
(2) 20 ga. wire leads
One 4 position socket shell
One 5 position socket shell
OEM: N/A

Part No. 323698

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GM HEATING/COOLING/AC/ENGINE MANAGEMENT and MISCELLANEOUS SOCKETS

A/C CLUTCH, A/C PRESSURE SWITCH

(2) 18 ga. wire leads
Fits low pressure sensors on V5 compressors found on front wheel drive models.
Visual inspection necessary to match index slot.
OEM: N/A

Part No. 32347

FAN MOTOR

(2) 12 ga. wire leads
Fits cooling fan #22074968, 22074969, 22067446, 22048271
1982/on, GM products
Fits AC/heater blower motor
1985/on GM products
OEM: 12101906

Part No. 323647

FAN TEMPERATURE SENSOR ON ENGINE OR RADIATOR

(1) 18 ga. wire lead
1980/on GM products
OEM: 12102621, 12051234, Delco PT-308

Part No. 32348

A/C COMPRESSOR

Diode enclosed in shroud.

(2) 18 ga. wire leads
Same as 32325, but with diode.
1985/on GM products
1983/on Cadillac
OEM: 12101907, Delco PT-179

Part No. 323697 (2)

COOLANT TEMPERATURE SENSOR

(2) 18 ga. wire leads
1985/On GM products
Also fits 6-pin ignition module and crankshaft sensor on 2.8L engine. Also fits fluid level sensors.
OEM: 12101899, Delco PT-169

Part No. 323627

A/C CLUTCH

Diode enclosed in shroud.

(2) 18 ga. wires
8mm pin type
connector with diode
Fits A/C compressor coil
1989/on, some GM models
OEM: N/A

Part No. 323782

KNOCK SENSOR

(1) 18 ga. wire lead
Also fits fan temperature switch
1980/on GM products
OEM: 12102621, 12051234, Delco PT-308

Part No. 32348

CRANKSHAFT SENSOR, 2.8L

Also fits coolant temperature sensor, fluid sensors on various engine sizes
(2) 18 ga. wire leads
1985/on GM products
OEM: 12101899, PT169

Part No. 323627

IDLE SPEED CONTROL

Fits ICS actuator
Connector only.
Use four Part No. 209871 male wire leads.
Order leads separately.
GM products
OEM: N/A

Part No. 209870

MANIFOLD ABSOLUTE TEMPERATURE SENSOR (M.A.T.)

Fits sensor no. 25036751
(2) 18 ga. wire leads
1985/on GM products
OEM: N/A

Part No. 323630

FUEL INJECTOR, CENTER INDEX SLOT

Fits imports and domestics
Lucas & Bosch
(2) 18 ga. wire leads and one spring retainer
OEM: N/A

Part No. 316117

THROTTLE POSITION SENSOR

(3) 20 ga. wire leads
Fits sensor no. 17112679
1990/on GM products
OEM: 12102748, PT375

Part No. 323701

WASHER FLUID SENSOR, BRAKE FLUID SENSOR, RADIATOR COOLANT TEMP. SENSOR, IGNITION MODULE

(2) 18 ga. wire leads
1985/on GM products
OEM: 12101899, Delco PT169

Part No. 323627

RELAY CONNECTOR

(1) connector & lock, (1) 10 ga. wire lead
(1) 12 ga. wire lead, (2) 18 ga. wire leads
Fits various GM relays
1982/on GM products
OEM: 12101885, 12101939, 12126460, Delco PT156, PT211, PT730

Part No. 323793

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OPEN BARREL TERMINALS

These illustrations are enlarged to show detail

SPLICE CLIPS

Accepts: 2-18 ga. or 2-16 ga. leads
OE: GM 5297428

Part No.
210350 50

Accepts: 2-14 ga. leads
OE: GM 00821240

Part No.
210349 50

Accepts: 2-12 ga. or 2-10 ga. leads
OE: GM 01839906

Part No.
210351 50

Crimp splice and solder.

GM METRI-PACK 150 SERIES

Female Terminal

20-18 ga. wire
(pull to seat)
1.5mm width
Tin plated
OE: 12034149, 12047680

Part No.
209820 25

Female Terminal

24 ga. wire
Tin plated
OE: 12052466

Part No.
209862 25

Male Terminal

20-18 ga. wire
Tin plated
Use w/cable seal
OE: 12045773

Part No.
210194 25

Female Terminal

20-18 ga. wire
Tin plated
Use w/cable seal
OE: 12048074

Part No.
210195 25

GM METRI-PACK 280 SERIES

Female Terminal

18-14 ga. wire
2.8mm width
Tin plated
Mates with 209822
OE: 12015857

Part No.
209821 25

Male Terminal

18-14 ga. wire
2.8mm width
Tin plated
Mates with 209821
OE: 12020116

Part No.
209822 25

Male Terminal

20-18 ga. wire
2.8mm width
Tin plated
Mates with 209896
OE: 12034047

Part No.
209895 25

Female Terminal

20-18 ga. wire
2.8mm width
Tin plated
Mates with 209895
OE: 12034046

Part No.
209896 25

Female Terminal

16-14 ga. wire
Tin plated
Use w/cable seal
OE: 12077412, 12129493

Part No.
210197 25

GM METRI-PACK 280 SERIES FUEL INJECTOR

Female Terminal

22-20 ga. wire
Tin plated
OE: 12103360

Part No.
209265 15

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These illustrations are enlarged to show detail

OPEN BARREL TERMINALS

GM WEATHER-PACK SERIES

Female Terminal

20-18 ga. wire

Tin plated
Mates with 209852
OE: 12034051, 12089188

Part No. 209851 25

Male Terminal

20-18 ga. wire

Tin plated
Mates with 209851
OE: 12033674, 12089040

Part No. 209852 25

Female Terminal

16-14 ga. wire

Tin plated
Mates with 209854
OE: 12010182, 12124580

Part No. 209853 25

Male Terminal

16-14 ga. wire

Tin plated
Mates with 209853
OE: 12010085, 12089305

Part No. 209854 25

Female Terminal

12 ga. wire

Tin plated
Mates with 210176
OE: 12015917, 12124581

Part No. 210175 25

Male Terminal

12 ga. wire

Tin plated
Mates with 210175
OE: 12089306, 12124587

Part No. 210176 25

CABLE SEALS

CABLE DIA. MM	GPT WIRE GAUGE	SXL WIRE GAUGE	PART NUMBER	SEAL COLOR	QTY
1.70-1.29	--	--	**209228**	Red	25
2.80-2.03	18-16	20-18	**209850**	Green	25
3.49-2.81	14	16	**209875**	Gray	25
4.30-3.45	--	14	**209229**	Blue	25

Cavity Plug

Use to plug empty cavities in connector shells
OE: 12010300

Part No. 209891 25

NOTE: Cable seals also used with Metri-Pack 150, 280 and 480 Series Terminals, where required.

Repair Lead

Male
10" of 18 ga. wire with installed 209852 Terminal and 209850 seal.

Part No. 209871 5

Repair Lead

Female
10" of 18 ga. wire with installed 209851 Terminal and 209850 seal.

Part No. 209872 5

Single Cavity Shell

Male OE: 12015791

Part No. 209855 5

Female OE: 12010996

Part No. 209856 5

Double Cavity Shell

Male OE: 12015792

Part No. 209857 5

Female OE: 12010973

Part No. 209858 5

Triple Cavity Shell

Male OE: 12015793

Part No. 209859 5

Female OE: 12010717

Part No. 209860 5

Four Cavity Shell

Male OE: 12015797

Part No. 323640 3

Female OE: 12010974

Part No. 323641 3

Four Cavity Square Shell

Male OE: 12015798

Part No. 323642 3

Female OE: 12015024

Part No. 323643 3

Five Cavity Square Shell

Male OE: 12034342

Part No. 323783 2

Female OE: 12065158

Part No. 323784 2

Six Cavity Shell

Male OE: 12015799

Part No. 323644 2

Female OE: 12010975

Part No. 323645 2

Four Cavity Male Shell

with silicone seal. Connects wiring harness to idle control solenoid on GM vehicles, 1985-on.

Uses male terminals.
OE: 12015387

Part No. 209870 2

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OPEN BARREL TERMINALS

These illustrations are enlarged to show detail

OPEN BARREL TERMINAL CRIMPING TOOL

Part No. 113300

Duplicates factory crimps on open barrel terminals used in automotive, computer and control applications.

- **Five machined and hardened crimp stations for 14 to 24 gauge wire terminations.**
- **Parallel jaws eliminate faulty crimps due to accidental jaw cocking during crimp cycle.**
- **Made by same company that makes Packard Crimp Tools.**
- **Includes complete instructions.**

TERMINAL EXTRACTOR PICKS

Part No. 113747
Narrow Blade (.050)
OE: 12012000

Part No. 113748
Wide Blade (.090)
OE: 8913369

- **Used to release locking tang on automotive terminals. Allows removal from insulated housing or terminal block.**
- **113747 used with Pac-Con, small Metri-Pack, ECM terminals & others.**
- **113748 used with 56 series, large Metri-Pack terminals & others.**

GM WEATHER PACK TERMINAL EXTRACTOR TOOL

Part No. 113746
OE: 12014012

- **Ultra-thin, hollow center.**
- **Releases Weather-Pack automotive terminals from connector housing by depressing both retention barbs.**

MATE-N-LOK™ TERMINALS

Commonly used in cellular phone and communication equipment installations, office machines and machine controls.

Male Terminal 20-14 ga. wire .084 dia. pin Single barb mates with 210171 **Part No. 210170** 25	**Female Terminal** 20-14 ga. wire .084 dia. pin Single barb mates with 210170 **Part No. 210171** 25	**Male Terminal** 20-14 ga. wire .084 dia. pin Dual barb mates with 210173 **Part No. 210172** 25		

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TOGGLE SWITCHES

TOGGLE SWITCHES

- Two position, "ON-ON", SPDT
- Heavy duty.
- 3 brass screw terminals.
- Mounting stem 15/32" long, 15/32" diameter.
- Rating: 25 amps. 12 Volts DC

Part No. 622300

- Three position, "ON-OFF-ON" SPDT
- Extra heavy duty*, silver contacts.
- 11/16" nickel plated brass handle.
- Mounting stem 15/32" long, 15/32" diameter.
- 3 brass screw terminals.
- Rating: 25 amps. 12 Volts DC
  15 amps. 125 Volts AC

Part No. 622308

- Two position, "OFF-MOM. ON", SPST
- Heavy duty.
- 2 brass screw terminals.
- Mounting stem 15/32" long, 15/32" diameter.
- Rating: 25 amps. 12 Volts DC

Part No. 622301

- Two position, "ON-OFF", SPST
- Nickel plated brass handle.
- Mounting stem 15/32" long, 15/32" diameter.
- 2 brass screw terminals.
- Rating: 10 amps. 12 Volts DC

Part No. 622309

- Two position, "ON-OFF", SPST
- Heavy duty.
- 2 brass screw terminals, with blades attached.
- Mounting stem 15/32" long, 15/32" diameter.
- Rating: 25 amps. 12 Volts DC

Part No. 622302

- Three position, "ON-OFF-ON", DPDT
- Extra heavy duty*, silver contacts.
- 11/16" nickel plated brass handle.
- Mounting stem 15/32" long, 15/32" diameter.
- 6 brass screw terminals.
- Rating: 25 amps. 12 Volts DC
  15 amps. 125 Volts AC

Part No. 622313

- Rating: 25 amps.
  12 Volts DC
- Mounting stem 15/32".

Part No. 622304
- 2 position, "ON-ON"
- 6 brass screw terminals.

Part No. 622303
- 3 position, "MOM. ON-OFF-MOM. ON"
- 6 brass screw terminals.

- Two position, "ON-OFF" DPST
- Extra heavy duty*, silver contacts.
- 11/16" chrome plated brass handle.
- Mounting stem 15/32" long, 15/32" diameter.
- 4 brass screw terminals.
- Rating: 25 amps. 12 Volts DC
  15 amps. 125 Volts AC

Part No. 622314

- Two position, "ON-OFF", SPST
- Two 6" wire leads.
- Nickel plated "ON-OFF" indicator plate assembled.
- Mounting stem 15/32" long, 15/32" diameter.
- Rating: 3 amps. 250 Volts AC
  6 amps. 125 Volts AC

Part No. 622305 (6)

- Three position, "Mom. ON-OFF-Mom. ON" SPDT
- Extra heavy duty*, silver contacts.
- 11/16" chrome plated brass handle.
- Mounting stem 15/32" long, 15/32" diameter.
- 3 brass screw terminals.
- Rating: 25 amps. 12 Volts DC
  15 amps. 125 Volts AC

Part No. 622315

- Two position, "ON-OFF", SPST
- 2 brass screw terminals.
- 1-1/16" chrome bat handle.
- Mounting stem 1/4" long, 15/32" diameter.
- Rating: 20 amps. 12 Volts DC

Part No. 622306

- Two position, "ON-OFF", SPST
- Extra heavy duty*, silver contacts.
- 2 brass screw terminals.
- 1-5/8" extra long bat handle.
- Mounting stem 1/2" long, 15/32" diameter.
- Rating: 50 amps. 6 to 24 Volts DC

Part No. 622319

- Two position, "ON-OFF", SPST
- Extra heavy duty*, silver contacts.
- 11/16" nickel plated brass handle.
- Mounting stem 15/32" long, 15/32" diameter.
- Rating: 25 amps. 12 Volts DC
  15 amps. 125 Volts AC

Part No. 622307
- 2 brass screw terminals.

Part No. 622299
- 2 brass blade terminals.

*** Extra heavy duty switches have silver contacts which are good for 36 volt applications.**

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SWITCHES, ACCESSORIES & INDICATOR LIGHTS

RUBBER BOOT

- Durable rubber boot bonded to brass mounting nut for positive seal.
- Fits standard toggle switches with 15/32-32 threaded mounting stems.
- Protects against moisture, dirt, ice and other climactic conditions.
- Completely covers toggle handles up to 11/16" long.

Part No. 622328 2

ROCKER SWITCHES

- Two position, "OFF-ON", SPST
- Black actuator, black nickel plated bezel.
- 2 male blade terminals.
- Fits 3/4" x 1-1/2" hole.
- Rating: 25 amps. 12 Volts DC

Part No. 622317

- 12 V pilot light, red lens.
- Two position, "OFF-ON", SPST
- Black actuator, bright nickel plated bezel.
- 3 male blade terminals.
- Fits 3/4" x 1-1/2" hole.
- Rating: 25 amps. 12 Volts DC

Part No. 622318

- Two position, "MOM. ON-OFF", SPST
- Black actuator, black nickel plated bezel.
- 2 male blade terminals.
- Fits 3/4" x 1-1/2" hole.
- Rating: 25 amps. 12 Volts DC

Part No. 622399

PUSH-PULL SWITCHES

- Two position, “ON-OFF”, SPST
- Illuminated knob in "ON" position.
- 2 brass screw terminals.
- Mounting stem 3/8" long, 7/16" diameter, two terminal.
- Rating: 15 amps. 12 Volts

Part No. 622333

- Two position, "ON-OFF", SPST
- EXTREME SERVICE, HEAVY DUTY.
- Mounting stem 5/8" long, 15/32" diameter.
- Bakelite body, chrome plated knob.
- 2 brass screw terminals.
- A must for police cars, ambulances, and emergency vehicles.
- Rating: 75 amps. 6 to 28 Volts

Part No. 622337

MOMENTARY PUSH-BUTTON SWITCHES

- Extra heavy duty.
- 2 screw terminals w/lock washers.
- Silver contacts for 36 Volt apps.
- Mounting stem 21/32" long, 5/8" diameter.
- Metal button.

Part No. 622364

Part No. 622365
Same as **622364** with extra heavy duty protective rubber cap

- Horn button.
- Black plastic button.
- Mounts on panel or dash.
- Rating: 5 amps. 12 Volts DC

Part No. 622358

- 2 screw terminals.
- Mounting stem 5/8”-32, 21/32” (16.66mm) long.
- Plastic button with protective cap and mounting nut assembly.

Part No. 622389

MARINE SWITCH

- Two position, "ON-OFF", SPST
- All brass construction.
- All brass construction.
- 2 brass screw terminals.
- Mounting stem 3/8" long, 7/16" diameter.
- Rating: 35 amps. 6 Volts DC
  20 amps. 12 Volts DC

Part No. 622338

INDICATOR LIGHTS

- Wire leads for easy installation.
- Mounts on 1/2" hole.
- 12 Volt applications.
- Bulb included.

PART NUMBER	LENS COLOR
622352	Red
622353	Green
622355	Blue

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SOLENOIDS, SWITCHES, SPRINGS & BUZZERS

CONTINUOUS DUTY SOLENOID - SPDT

For forward and reverse systems in golf carts, garden tractors, fork lift trucks, winch operation, etc.

- Insulated - steel housing.
- Continuous duty.
- Normally opened and closed contacts.
  Normally closed: 35 amps.
  Normally open: 85 amps.

PART NUMBER	VOLTS
622142	12

CONTINUOUS DUTY SOLENOIDS - SPST

- Normally open contacts.
- 85 amps.
- One circuit: "OFF-ON".
- Contacts: copper.
- Housings: plated steel.
- Ignition and ground terminals: copper, 10-32 thread, hex nuts and lock washers included.
- Bracket mounting holes: 5/16" x 19/32", 2-13/64" on centers.

PART NUMBER	VOLTS	DESCRIPTION
622390	12	Insulated
622392	12	Grounded
622391	24	Insulated

MASTER DISCONNECTS & SELECTOR SWITCHES

- Auto, truck, fleet applications.
- Silver laminated contacts.
- 2 positions: "OFF-ON", SPST
- Disconnects battery circuit only.
- Two 3/8" brass stud terminals.
- For 6, 12, 24, & 36 Volts.
- Mounting stem 25/32" long, 3/4" diameter.

Part No. 622366 Face plates included.

- Marine applications.
- Silver laminated contacts.
- All brass case, chrome plated die cast lever.
- Two 3/8" brass stud terminals.
- Brass mounting stem 1-13/32" long, 3/4" diameter.
- 2 positions: "OFF-ON", SPST
- Disconnects battery circuit only.
- For 6, 12, 24, & 36 Volts.

Part No. 622367 Face plates included.

Continuous rating 175A 6-12-24-36 volt dc intermittent rating 300 a 6-12-24-36 volt dc 15 sec. on, 5 min. off ignition protected

UNIVERSAL BUZZER

For bus "door open" warning, bus operator signal, low air pressure warning, etc.

- Electrical contacts designed for instant response and uninterrupted signal.
- Case: impact resistant ABS resin.
- Insulator: moisture repellant.
- Terminals: two screw with lock washers.
- Size: 1-7/32" L x 2-1/2" W x 2-17/32" H.
- Replaces:
  Ford: FDM-2938-A
  GMC: 1116882
  Superior Coach: 76032
  Divco-Wayne: E-11811-A

Part No. 622393

FOOT OPERATED FLOOR SWITCH

"OFF-ON", normally "OFF"
"ON" with plunger depressed, spring return to "OFF"

- Terminals: two stud, 5/16"-24 thread with hex nuts and lock washers.
- Mounting: two 9/32" (7.14mm) dia. holes, 1-3/4" (44.45mm) on center.
- Plunger: 1" (25.40mm) long.
- Replaces: Autolite: SW-4012 (15-49)
  Delco: 1996478

Part No. 622395

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RELAYS & HORNS

RELAYS

Part No. 923755	Part No. 923753, 754	Part No. 923752	Part No. 923748	Part No. 923749

Relays fit Blowers, AC modules, AC selector switches, AC compressors, power antennas, electric chokes, speed-up solenoids, power relays, ignition, window & seat regulator controls, sunroof controls, fog lamps, trailer lights, anti-theft systems, rear window defroster, electric tailgates.

PART NUMBER	DESCRIPTION	VOLTAGE	AMP RATING	TERMINALS	MOUNTING TAB	QTY
923752	Relay: Used to run up to 30 amps continuously	12	40	4	Yes	1
923753	Relay, Universal	12	40	5	Yes	1
923754	Relay, Universal	12	40	5	No	1
923755	Relay, with Diode: Eliminates voltage spikes	12	40	5	Yes	1
923748	Relay, Universal	24	20	5	Yes	1
923749	Relay, Dual: Controls two 20 amp circuits, or can be used as a single 40 amp relay. Popular for European & German cars.	12	40	5	Yes	1
923746	Relay Kit: Includes one universal 923753 relay and one 323818 relay pigtail.					1
323818	Relay Pigtail: Prewired, 14 gauge leads, fits all 5 prong relays.					2

UNIVERSAL HORNS - OE Replacements

Trumpet Style

Vibrator Style

For Single & Dual Terminal Installations

For cars, trucks, vans, RV's, buses, boats and motorcycles.

- **Trumpet style fits a wide range of domestic applications.**
- **High frequency vibration style used on most imports and many newer domestic models.**
- **Fits 12 Volt applications, single or dual terminals.**
- **Universal mounting kit includes straight and right angle brackets.**
- **Steel housing, plastic protector and copper wire coil motor, black acrylic finish.**
- **Exceeds S.A.E. and OEM specifications.**
- **Designed, engineered and manufactured in USA.**

PART NUMBER	STYLE	DIMENSIONS	FREQUENCY (H2/Pitch)		MIN.DB RATING @ 4"	CURRENT DRAW	POWER
618375	Trumpet	3-7/8"L x3-3/4"Wx3-1/4"D	500	Hi	125	5	12 V
618376	Trumpet	3-7/8"Lx3-3/4"Wx3-1/4"D	420	Low	125	5	12 V
618391	Vibrator	3-5/8"Dia.x2-5/8"D	335	Low	130	4	12 V

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FLASHERS and HALOGEN CAPSULES

ELECTRONIC FLASHERS

Originally designed for large, heavy duty commercial vehicles. Ideal for towing. Will replace all thermal flashers.
Fits many late model automotive applications. (Many newer vehicles use an electronic system which is not compatible with thermal flashers.)
NOTE: With electronic flashers, if one bulb burns out, the flasher will continue to operate.

- **Flashes up to 10 lamps.**
- **Meets all DOT 108 requirements.**
- **Outperforms all other types of flashers.**

EXTENDED LIFE - HEAVY DUTY ELECTRONIC FLASHERS

PART NUMBER	INDUSTRY NUMBER	TERMINALS	VOLTS	OPERATES NO. OF LAMPS	APPLICATIONS
615540	EL12	2	12	2-4 Turn 1-10 Hazard	Replaces all 536, 552 applications plus late model Ford, Mercury, Nissan (various models)
615541	EL13	3	12	2-4 Turn 1-10 Hazard	Replaces all 550 applications plus certain automotive applications.
615542	--	3	12	2-6 Turn 2-Sealed Beams	Alternating flasher for school buses and emergency vehicles. No ground required.

OEM ELECTRONIC FLASHERS

PART NUMBER	INDUSTRY NUMBER	TERMINALS	VOLTS	OPERATES NO. OF LAMPS	LATE MODEL OEM APPLICATIONS
615548	EP36	3	12	2 - 6 Turn Signal* 2 - 6 Hazard Warning	Chevrolet, GMC C/K pick up
615543	EG23	3	24	2 - 6 Turn Signal* 2 - 6 Hazard Warning	Motor coaches, buses, trucks with 24V electrical system.

*** Flasher will indicate when signal light is burnt out.**

HIGH AND LOW BEAM CAPSULES

DOMESTIC
Part No. **615303**
IND. #9003

IMPORT
Part No. **CE9003**
IND. #9003

DOMESTIC
Part No. **615304**
IND. #9004

IMPORT
Part No. **CE9004**
IND. #9004

DOMESTIC
Part No. **615307**
IND. #9007

IMPORT
Part No. **CE9007**
IND. #9007

IMPORT
Part No. **CE1155/H11**
IND. #1155/H11

IMPORT
Part No. **CE9008/H13**
IND. #9008/H13

DOMESTIC
Part No. **615804**
IND. #1255/H11B

DODGE INTREPID

HIGH BEAM
Part No. **615308**
IND. #9005XS
2001-98

LOW BEAM
Part No. **615309**
IND. #9006XS
2001-98

INDIVIDUAL BEAM CAPSULES

HIGH BEAM

DOMESTIC
Part No.
615305
IND. #9005

IMPORT
Part No.
CE9005
IND. #9005

LOW BEAM

DOMESTIC
Part No.
615306
IND. #9006

IMPORT
Part No.
CE9006
IND. #9006

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HALOGEN CAPSULES, HEADLAMPS and SEALED BEAMS

WAGNER BRITELITE

Brighten your profits with BriteLite!

- **80% more light on the road.**
- **High power 55 watt low beam filament (compare to standard 35 watt).**
- **30% wider beam pattern.**
- **Less glare.**
- **Smoother beam pattern.**
- **Cooler running Xenon filled bulb.**
- **Meets or exceeds all OE quality standards.**
- **DOT approved.**

Our Numbers 90% Coverage			
9004BL	9007BL	H4656BL	H6054BL

SPECIALTY SEALED BEAMS

G13

12 VOLT TRACTOR / UTILITY SEALED BEAM

(sealed beam only)

PART NUMBER	INDUSTRY NUMBER	DESCRIPTION
615311	4411	Replaces sealed beam in tractor/utility lamp. (Grote No. 64931)

12 VOLT SPOTLIGHT SEALED BEAMS

PART NUMBER	INDUSTRY NUMBER	CANDLE POWER	LIFE HOURS	SIZE	BASE TYPE
615310	4636	90,000	200	5-3/4	MP

12 VOLT TRACTOR / FLOOD SEALED BEAM

PART NUMBER	INDUSTRY NUMBER	CANDLE POWER	LIFE HOURS	SIZE	BASE TYPE
615313	4466	1,000	300	4-1/2	Screw

HEADLAMPS and SEALED BEAMS

- **Available in OEM regular & halogen.**
- **5 most popular sealed beams give top coverage. (marked with *)**
- **Replace regular with halogen–for improved night vision.**

PART NUMBER	INDUSTRY NUMBER	CONFIGURATION	DIMENSIONS	DESCRIPTION
615056	H4656*	LOW BEAM	100 x 165mm	Rectangular, low beam in the four lamp system.
615051	H4651*	HIGH BEAM	100 x 165mm	Rectangular, high beam in the four lamp system.
615066	H6545 H4666/*	HIGH/LOW BEAM	100 x 165mm	Fits most Honda motor cars. Also replaces H6545 late model Chrysler products.
615024	H6024*	HIGH/LOW BEAM	7” dia.	Large round lamp.
615054	H6054*	HIGH/LOW BEAM	142 x 200mm	Large rectangle. Fits passenger cars, trucks and vans.

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MINIATURE BULBS / LIGHTING PROGRAM

MINIATURE BULB ASSORTMENTS

- Includes halogen mini bulbs.
- Both assortments contain 14 most popular bulbs.
- Both assortments include E-Z identification lid chart or labeling system.
- Both have room for expansion.
- Each assortment contains these popular bulbs.

PARTS BOOKLET PB108 SHIPPED WITH THIS ASSORTMENT

Part No. 615011
151 pieces • 14 items
12071 steel tray

615161	615181	615321	615344
615168	615186	615322	615385
615169	615194	615325	
615180	615203	615329	

Numbers in assortment

WAGNER'S BULB STORAGE BIN MERCHANDISER

- New narrow profile design...less space with more inventory.
- Adjustable bin dividers...provide flexible storage capacity.
- Impact resistant...built tough for the most demanding environments.
- See through bins...easy product selection and inventory at-a-glance.
- All metal frame...adds strength and durability.
- Blue powder coating...for long-lasting good looks.
- Concealed storage area...offers extra space for additional inventory.
- Convenient installation...wall-mount or place on your workbench.

Order **Part No. 615301**
(19" wide x 26-3/4" high x 4" deep)

***Added Bonus: Cabinet contains (10) of each miniature bulb: 67, 168, 194, 194A, 912, 921, 1156, 1157, 1157NA, 1893, 1895, 2057, 3057, 3157 and (2) 9004 capsules.**

Contents are perfect for Wagner's Bulb Storage Bin Merchandiser (#615301) SOLD SEPARATELY.

- Most popular 28 numbers (10 each).
- 90% coverage.

IND. NO.	PART NO.	IND. NO.	PART NO.	IND. NO.	PART NO.
24	**615332**	921	**615322**	2357NA	**615324**
67	**615161**	922	**615385**	3057	**615329**
89	**615162**	1003	**615171**	3057NA	**615330**
168	**615187**	1141	**615177**	3156	**615331**
194	**615168**	1156	**615180**	3157	**615325**
194NA	**615169**	1157	**615181**	3157NA	**615326**
211-2	**615170**	1157NA	**615191**	3357	**615347**
561	**615189**	2057	**615203**	3357NA	**615348**
906	**615197**	2057NA	**615204**		
912	**615321**	2357	**615323**		

***All bulbs are from domestic manufacturer - manufacturers may vary.**

BULB ONLY ASSORTMENT

Part No. 615302
280 pieces
28 items

BIN NOT INCLUDED

PARTS BOOKLET PB108 SHIPPED WITH THIS ASSORTMENT

G13

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MINIATURE BULBS

"CE" = Competitive Edge or Eiko Brand

ILLUSTRATIONS ON THIS PAGE ARE NOT ACTUAL SIZE.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10

Fig. 11

Fig. 12

Fig. 13

Fig. 14

Fig. 15

Fig. 16

Fig. 17

Fig. 18

Fig. 19

Fig. 20

Fig. 21

Fig. 22

Fig. 23

Fig. 24

DOMESTIC PART NUMBER	IMPORT PART NUMBER	BULB NUMBER	APPLICATION	BASE	FIG.
615155	--	PR-2	2D cell flashlight	S.C.	1
615332	--	L24	Sidemarker	Wedge	19
615803	--	KPR102	2D Cell Flashlight, Krypton	S.C.	1
615393	--	37	Automotive	Wedge	33
615157	--	53	Instrument	S.C.	10
615159	--	57	Instrument	S.C.	3
615161	**CE67**	67	License Plate	S.C.	4
615788	--	68	Automotive/Marine	D.C. Bayonet	5
615759	--	73	Indicator	Wedge	33
615195	--	74	Instrument	Sub-Min. Wedge	6
615792	--	PC74	Automotive	Printed Circuit	24
615162	--	89	Interior/Trunk	S.C.	4
615163	--	90	Courtesy	D.C.	5
615196	--	93	Under Hood	S.C.	11
615164	--	97	Sidemarker	S.C.	4
615167	--	161	Sidemarker	Wedge	6
615187	**CE168**	168	Tail/License/Instrument	Wedge	6
615793	--	PC168	Instrument/Automotive	Printed Circuit	24
615168	**CE194**	194	Instrument/Sidemarker	Wedge	6
615169	--	194NA	Sidemarker (amber)	Wedge	6
---	**CE194A**	194A	Sidemarker (amber)	Wedge	6
615794	--	PC194	Indicator/Instrument/Automotive	Printed Circuit	24
615198	--	198	Stop/Turn - H.D. Truck	D.C.	10
615199	--	199	Back-Up/Turn/Stop - H.D. Truck	S.C.	11
615170	--	211-2	Dome/Courtesy	Cap	7
615188	--	212-2	Courtesy	Cap	13
615189	--	561	Courtesy	Clip	14
615778	--	795	Auxiliary, Halogen	S.C. Bayonet	20
615779	--	862	Automotive, Signal, Halogen	Right Angle (plastic)	21
615377	**CE880**	880	Halogen Fog	Axial (plastic)	22
615378	--	881	Halogen Fog	Right Angle Axial (plastic)	21
615762	--	886	Automotive Halogen Fog	Right Angle (plastic)	21

DOMESTIC PART NUMBER	IMPORT PART NUMBER	BULB NUMBER	APPLICATION	BASE	FIG.
---	**CE889**	889	Automotive, Halogen Signal	Right Angle (plastic)	32
---	**CE890**	890	Halogen Signal	Axial (plastic)	22
615344	**CE891**	891	3rd Brake Light	G-4 Two Pin	27
615381	--	893	Halogen Fog	Axial (plastic)	29
615763	--	894	Auto/Tractor/Halogen Fog	Right Angle (plastic)	21
615382	--	896	Halogen Fog	Right Angle	32
---	**CE898**	898	Auto., Fog, Shielded, Halogen	Right Angle (plastic) Prefocus	
615764	**CE899**	899	Auto. Shielded Halogen Fog	Axial (plastic) Prefocus	29
615790	--	904	Automotive	Wedge	31
615197	**CE906**	906	Interior - High Mount Stop	Wedge	6
615321	**CE912**	912	Interior - High Mount Stop	Wedge	6
615383	**CE916**	916	Marker/Park	Wedge	31
---	**CE916NA**	916NA	Marker/Park	Wedge	31
615322	**CE921**	921	High Mount Stop	Wedge	6
615385	**CE922**	922	3rd Brake	Wedge	31
615171	--	1003	Dome/Courtesy	S.C.	8
615172	--	1004	Dome/Courtesy	D.C.	9
615175	--	1073	Back-Up	S.C.	11
615391	--	1076	Stop/Turn/Park	D.C.	30
615177	--	1141	Back-Up	S.C.	11
615774	--	1142	Automotive	D.C. Bayonet	12
615180	**CE1156**	1156	Back-Up	S.C.	11
615392	--	1156DC	School Bus	D.C.	30
615345	--	1156NA	Turn/Park	S.C.	11
615181	**CE1157**	1157	Stop/Turn Signal	D.C.	10
615182	--	1157A	Park/Turn Signal (amber)	D.C.	10
615191	**CE1157NA**	1157NA	Park/Turn (natural amber)	D.C.	10
615795	--	1210/H3	Auxilary, Off Road, Halogen	PKY22	25
615796	--	1251	Instrument (24V)	S.C. Bayonet	4
615761	**CE1255/H1**	1255/H1	Auxiliary, Various Audi & Volvo Halogen Headlamps	1 Blade	35

S.C. - Single Contact **D.C. - Double Contact** **D.F. - Double Filament**

24 VOLT

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ILLUSTRATIONS ON THIS PAGE ARE NOT ACTUAL SIZE.

"CE" = Competitive Edge or Eiko Brand

MINIATURE BULBS

Fig. 25

Fig. 26

Fig. 27

Fig. 28

Fig. 29

Fig. 30

Fig. 31

Fig. 32

Fig. 33

Fig. 34

Fig. 35

Fig. 36

Fig. 37

Fig. 38

Fig. 39

Fig. 40

DOMESTIC PART NUMBER	IMPORT PART NUMBER	BULB NUMBER	APPLICATION	BASE	FIG.
615346	**CE1255/H2**	1255/H2	Fog Lamp/55W	X511	26
615343	**CE1255/H3**	1255/H3	Fog Lamp/55W	PK22s	25
615760	**CE1255/H7**	1255/H7	Automotive, Various Audi & Volvo Halogen Headlight	2 Blade	34
615797	**--**	1255/H11	Automotive, Halogen	1 Blade	35
615781	**CE1260/H4**	1260/H4	Auxiliary, Off-Road, Motorcycle, Halogen	3 Blade	34
615798	**--**	1265/H9	Automotive, Halogen	1 Blade	35
615185	**--**	1445	Indicator	S.C.	2
615775	**--**	1662	Aircraft/Automotive (24V)	D.C. Index	12
615339	**--**	1683	Automotive/Truck (24V)	S.C.	11
615192	**--**	1816	Instrument	S.C.	15
615193	**--**	1891	Courtesy	S.C.	15
615194	**--**	1893	Courtesy	S.C.	15
615186	**CE1895**	1895	Instrument	S.C.	3
615203	**CE2057**	2057	Stop/Turn/Tail/Park	D.C.	10
615204	**CE2057NA**	2057NA	Stop/Turn/Tail/Park (natural amber)	D.C.	10
615323	**--**	2357	Stop/Turn/Tail/Park	D.C.	10
615324	**--**	2357NA	Turn/Parking (natural amber)	D.C.	10
615806	--	2470/H3	Automotive, Fog, Auxiliary (24V)	PK22s	25
615327	**--**	DE3022	Dome Lamp for Japan Vehicles	Cone Shaped	17
615329	**CE3057**	3057	Stop/Turn/Tail/Park	D.C. Wedge	18
615330	**CE3057NA**	3057NA	Stop/Turn/Tail/Park (natural amber)	D.C. Wedge	18
615387	**--**	3155	3rd Brake	S.C. Wedge	18
615331	**CE3156**	3156	Stop/Turn/Tail/Park	S.C. Wedge	18
615782	**--**	3156NA	Automotive, Signal	S.C. Wedge	36
615325	**CE3157**	3157	Stop/Turn/Tail/Park	D.F. Wedge	16
615799	**--**	3157KX	Brake, Turn Signal	Wedge	36

DOMESTIC PART NUMBER	IMPORT PART NUMBER	BULB NUMBER	APPLICATION	BASE	FIG.
615326	**CE3157NA**	3157NA	Turn/Parking (natural amber)	D.F. Wedge	16
615328	**--**	DE3175	Dome Lamp for Japan Vehicles	Cone Shaped	17
615347	**CE3357**	3357	Signal/Stop	D.C. Wedge	16
615348	**CE3357NA**	3357NA	Signal	D.C. Wedge	16
615394	**CE3457**	3457	Signal, Stop	D.C. Wedge	16
615783	**CE3457NA**	3457NA	Park, Signal, Automotive	D.C. Wedge	16
615388	**CE3496**	3496	Park/Turn/Marker	D.C.	9
615389	**--**	3497	3rd Brake/Turn	S.C.	8
615805	--	4114LL	Automotive, Signal, Marking	D.C. Wedge	16
615784	**--**	4157LL	Auto., Signal, Stop, Krypton (same as 4157K)	D.C. Wedge	16
---	**CE4157K**	4157K	(same as 4157LL)	D.C. Wedge	16
615785	**--**	4157NALL	Auto., Park, Signal, Krypton	D.C. Wedge	16
615766	**CE7440**	7440	Automotive Signal	S.C.Wedge	37
615800	**--**	7440NA	Signal, Automotive	S.C. Wedge	37
615767	**CE7443**	7443	Automotive Signal/Stop	D.C.Wedge	38
---	**CE9145/H10**	9145/H10	Fog, Automotive, Shielded, Halogen	Right Angle Plastic	40
615768	**--**	11005	Courtesy/Dome (12V 5W)	SV 8.5mm	17
615769	**--**	12100	Courtesy/Dome (12V 10W)	SV 8.5mm	24
615770	**--**	17171	Interior/Signal	BA15s	39
615786	**--**	17314	Auto., Interior, License Plate	SV 8.5mm	17
615787	**--**	17635	Automotive, Signal, Stop	BA15s	11
615801	**--**	17916	Signal, Stop, Automotive	BAY15d	30
615791	**--**	17925	Signal, Stop, Automotive (24V)	BA15d	30

S.C. - Single Contact **D.C. - Double Contact** **D.F. - Double Filament** **24 VOLT**

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FUSES

MINI® FUSE

- Mini-Fuses® provide the sophisticated circuit protection needed by today's automobiles.
- These are standard equipment on all Chrysler vehicles and is being phased into all new cars & trucks.
- Permits more fuses to be placed in smaller spaces, allowing more circuits to be individually fused, essential in today's vehicles.
- Made of more heat resistant plastic to withstand high temperature environments, such as engine compartments.

SHOP ASSORTMENT

Part No. 615012
100 pieces • 10 items • 12038 plastic tray
615290 615293 615296 615299
615291 615294 615297
615292 615295 615298
Numbers in assortment

MINI "MINI®" ASSORTMENT

Part No. 615013
25 pieces • 10 items • 12030 plastic tray
615290 615293 615296 615299
615291 615294 615297
615292 615295 615298
Numbers in assortment

Mini-Fuse™ Refills

PART NUMBER	AMPS	IND. NO.	COLOR CODE	QTY
615290	2	MIN2	Gray	5
615291	3	MIN3	Violet	5
615292	4	MIN4	Pink	5
615293	5	MIN5	Tan	5
615294	7.5	MIN7.5	Brown	5
615295	10	MIN10	Red	5
615296	15	MIN15	Blue	5
615297	20	MIN20	Yellow	5
615298	25	MIN25	Clear	5
615299	30	MIN30	Green	5

MAXI™ FUSE

MAXI FUSE® is designed to protect high amperage circuits. **MAXI FUSE®** is being phased in OEM's as a state of the art replacement for the older style fusible-link.

A reliable device for protection of automotive wiring harnesses.

- Contains a completely enclosed fuse link (similar to ATC®) it providing superior protection to the fusible link or the fusible wire which it will replace.
- A universally interchangeable product (again like the ATC®) making replacement easy.
- Color coded for simple identification.

Maxi-Fuse™ Refills

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615285	20	MAX20	Yellow
615420	25	MAX25	Gray
615286	30	MAX30	Green
615421	35	MAX35	Brown
615287	40	MAX40	Orange
615288	50	MAX50	Red
615289	60	MAX60	Blue
615422	70	MAX70	Tan
615277	80	MAX80	Natural

Part No. 615006
20 pcs • 9 items • 12030 plastic tray
615277 615287 615420
615285 615288 615421
615286 615289 615422
Numbers in assortment

LOW PROFILE MINI® FUSE

- Similar performance characteristics as standard Mini® fuse.
- Uses the same rating and universal color-coding as Mini® (ATM) and Maxi (ATC) style fuses.
- Most commonly found in newer models both Import & Domestic brands.
- Low overall height allows for space and weight savings.

Low Profile Mini-Fuse™ Refills

PART NUMBER	AMPS	COLOR CODE
615585	5	Tan
615586	7-1/2	Brown
615587	10	Red
615588	15	Blue
615589	20	Yellow
615590	25	Clear
615591	30	Green

Part No. 615592
70 pcs • 7 items • 12046 plastic tray
615585 615588 615591
615586 615589
615587 615590
Numbers in assortment

E-Z FUSE

- All our E-Z fuses feature open test ports, allowing continuity or voltage tests without removing fuse.
- **Replaces ATC (Buss) and ATO (Littlefuse) fuses**

E-Z Fuse Refills (ATO, ATC)

PART NUMBER	AMPS	COLOR CODE
615223	1	Black
615224	2	Gray
615214	3	Violet
615222	4	Pink
615215	5	Tan
615216	7-1/2	Brown

PART NUMBER	AMPS	COLOR CODE
615217	10	Red
615221	15	Lt. Blue
615218	20	Yellow
615219	25	Clear
615220	30	Green
615232	40	Orange

(Actual size)

All these fuses are contained in the assortments shown below.

SHOP ASSORTMENT

- Sturdy steel tray fits Part slide rack system.
- Complete coverage, 1 thru 40 amp, **ATO & ATC.**
- Color coded for easy identification.

Part No. 501342
162 pieces • 12 items • 12061 steel tray
615214 615217 615220 615223
615215 615218 615221 615224
615216 615219 615222 615232
Numbers in assortment

MECHANICS ASSORTMENT

- Handy tray is perfect size for road service.
- Complete coverage, 1 thru 40 amp, **ATO & ATC.**
- Color coded for easy identification.

Part No. 615007
60 pieces • 12 items • 12030 plastic tray
615214 615217 615220 615223
615215 615218 615221 615224
615216 615219 615222 615232
Numbers in assortment

LED INDICATOR GLOW FUSES

MINI GLOW FUSE REFILLS	AMPS	COLOR CODE	E-Z GLOW FUSE REFILLS
615725	3	Violet	615736
615726	5	Tan	615737
615727	7.5	Brown	615738
615728	10	Red	615739
615729	15	Blue	615740
615730	20	Yellow	615741
615731	25	Clear	615742
615732	30	Green	615743

- LED lights immediately when fuse blows for fast and easy identification.
- All fuses are color coded for amperage.
- Manufactured to exact OEM specifications.

MINI GLOW FUSE ASSORTMENT

Part No. 615734
40 pieces • 8 items • 12046 plastic tray
615725 615727 615729 615731
615726 615728 615730 615732
Numbers in assortment

E-Z GLOW FUSE ASSORTMENT

Part No. 615745
40 pieces • 8 items • 12046 plastic tray
615736 615738 615740 615742
615737 615739 615741 615743
Numbers in assortment

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FUSES

LOW PROFILE & LED INDICATOR GLOW FUSES ASSORTMENT

- Contains all sizes of LED Indicator Mini and E-Z Glow Fuses, 3 thru 30 amp, Low Profile Mini Fuses®, 5 thru 30 amp & Low profile FMX JCASE™ Fuses 20 thru 60 amp.
- Color coded for easy identification.
- All fuses are organized, in one convenient location whenever needed.

Part No. 501401
128 pieces • 29 items • 12062 steel tray

615585	615590	615497	615727	615732	615740
615586	615591	615498	615728	615736	615741
615587	615494	615499	615729	615737	615742
615588	615495	615725	615730	615738	615743
615589	615496	615726	615731	615739	

Numbers in assortment

E-Z, (ATC, ATO), MINI® & MAXI™ MASTER FUSE ASSORTMENT

- Contains all popular sizes of E-Z fuses, 1 thru 40 amp, Mini fuses, 2 thru 30 amp & Maxi fuses 20 thru 80 amp.
- Color coded for easy identification.
- All fuses are organized, in one convenient location whenever needed.

Part No. 501679
128 pieces • 31 items • 12062 steel tray

615214	615219	615224	615287	615292	615297	615422
615215	615220	615232	615288	615293	615298	
615216	615221	615277	615289	615294	615299	
615217	615222	615285	615290	615295	615420	
615218	615223	615286	615291	615296	615421	

Numbers in assortment

GLASS & E-Z MASTER FUSE ASSORTMENT

- Contains all popular domestic and import glass fuses, and late model E-Z fuses from 1 through 30 amp rating.
- Metal tray fits our slide rack system.

Part No. 501074
301 pieces • 32 items • 12062 steel tray

615101	615106	615122	615131	615138	615217	615222
615102	615107	615123	615132	615139	615218	615280
615103	615112	615126	615135	615214	615219	
615104	615113	615128	615136	615215	615220	
615105	615120	615130	615137	615216	615221	

Numbers in assortment

DOMESTIC GLASS FUSE ASSORTMENT

- Supplies most used fuses with minimum stock.
- Perfect size for road service kit.
- Contains 100 fuses.
- BUSS No. 100.

Part No. 615005

GLASS FUSES FOR AUTOMOTIVE, RADIO & INSTRUMENT PROTECTION

1/4" Diameter

NO.	FULL SIZE ILLUSTRATION	LENGTH
1		5/8"
2		3/4"
3		21/32"
4*		31/32"
5		7/8"
6		1-1/16"
7		1-1/4"
8		1-7/16"
9		1"
10		31/32"

Packed in Tins of 5 Fuses

PART NUMBER		INDUSTRY NUMBER	ILL NO.	PART NUMBER		INDUSTRY NUMBER	ILL NO.
615101	D	SFE–4	1	615126	D	AGC–1	7
615102	D	SFE–6	2	615127		AGC–1-1/2	7
615103	D	SFE–7-1/2	5	615128	D	AGC–2	7
615104	D	SFE–9	5	615129		AGC–2-1/2	7
615105	D	SFE–14	6	615130	D	AGC–3	7
615106	D	SFE–20	7	615131	D	AGC–4	7
615107	D	SFE–30	8	615132	D J	AGC–5	7
615110		AGA–2	1	615134		AGC–7-1/2	7
615112	D	AGA–3	1	615135		AGC–10	7
615113	D	AGA–5	1	615136	D J	AGC–15	7
615118		AGA–20	1	615137	D	AGC–20	7
615119		AGA–30	1	615138	J	AGC–25	7
615120	G	GBC–8*	4	615139	D	AGC–30	7
615120C	G	GBC–8 white ceramic	10	615280	D J	AGC–35	7
615121		GBC–15*	4	615144		AGW–6	5
615122	G	GBC–16*	4	615148		AGX–20	9
615122C	G	GBC–16 red ceramic	10				
615123	G	GBC–25*	4				
615123C	G	GBC–25 blue ceramic	10				

D = TOP SELLING DOMESTIC SIZES
J = TOP SELLING JAPANESE SIZES
G = TOP SELLING GERMAN SIZES

615106-100 SPECIAL VALUE PACK FOR VOLUME BUYERS

* Unlike imported ceramic fuses, BUSS® type GBC is totally encapsulated for safety in the presence of gasoline fumes. However, fit and service are the same as original equipment.

SHOULD CUSTOMER DESIRE OE CERAMIC, OPEN-FACE FUSE, THEY ARE AVAILABLE IN 8, 16 AND 25 AMP. ORDER SAME PART NUMBER WITH "C" SUFFIX.

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FUSES

PAL™ FUSES

Commonly found on many automotive built vehicles.

- **Available in female connector, male connector and bent connector.**
- **Color indicates amp rating.**
- **Designed to withstand high current levels and high temperatures.**

20 AMP LT. BLUE	30 AMP PINK	40 AMP GREEN	50 AMP RED	60 AMP YELLOW	70 AMP BROWN	80 AMP BLACK	100 AMP BLUE	120 AMP GRAY	140 AMP MAROON*	Exception shown below.

FLF SERIES
FEMALE TERMINAL

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615366	20	**PAL20**	Lt. Blue
615351	30	**PAL30**	Pink
615352	40	**PAL40**	Green
615360	50	**PAL50**	Red
615353	60	**PAL60**	Yellow

FLS SERIES
MINI FEMALE TERMINAL

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615372	30	**PAL330**	Pink
615373	40	**PAL340**	Green

FLM SERIES
MALE TERMINAL

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615354	30	**PAL130**	Pink
615355	60	**PAL160**	Yellow
615356	80	**PAL180**	Black
615361	100	**PAL1100**	Blue
615365	120	**PAL1120**	Gray

FLN SERIES
FEMALE LOCKING TERMINAL

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615374	25	**PAL525**	Brown*
615256	30	**PAL530**	Green*

FLB SERIES
13/16" BENT MALE TERMINAL

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615357	30	**PAL230**	Pink
615358	40	**PAL240**	Green
615362	50	**PAL250**	Red
615363	60	**PAL260**	Yellow
615359	70	**PAL270**	Brown
615364	80	**PAL280**	Black
615258	100	**PAL2100**	Blue
615259	120	**PAL2120**	Gray
615399	140	**PAL2140**	Maroon

FLD SERIES
9/16" BENT MALE TERMINAL

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615367	30	**PAL430**	Pink
615368	40	**PAL440**	Green
615369	50	**PAL450**	Red
615370	80	**PAL480**	Black
615371	100	**PAL4100**	Blue

LOW PROFILE FMX SERIES JCASE™ FUSE

- **Many late model Domestic & Import applications.**
- **Offers high AMP protection in a compact package.**
- **Each AMP rating is color coded and marked.**
- **Lower overall height allows for space and weight savings.**

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615494	20	**FMX20LP**	Blue
615495	25	**FMX25LP**	White
615496	30	**FMX30LP**	Pink
615497	40	**FMX40LP**	Green
615498	50	**FMX50LP**	Red
615499	60	**FMX60LP**	Yellow

Part No. 615500
12 pieces • 6 items
12032 plastic tray
615494 615496 615498
615495 615497 615499
Numbers in assortment

FMX SERIES JCASE™ HIGH AMP FUSE

- **High current fuse used on some 97 & newer Japanese cars.**
- **Currently being designed into more new models.**
- **Special time delay & low voltage drop.**

FMX Series JCASE™ High Amp Fuse Refills

PART NUMBER	AMPS	IND. NO.	COLOR CODE
615424	20	**JCAS20**	Blue
615433	30	**JCAS30**	Pink
615434	40	**JCAS40**	Green
615444	50	**JCAS50**	Red
615445	60	**JCAS60**	Yellow

Part No. 615019
10 pieces • 5 items
12034 plastic tray
615424 615434 615445
615433 615444
Numbers in assortment

FUSIBLE LINKS

GAUGE	PROTECTS CIRCUIT	PART NUMBER	STUD	FITS	OEM	QTY
16	12	**615229**	5/16	Ford/Lincoln/ Mercury Vehicles	D3AB-14A600BA, D3AZ-14526E	6
14	10	**615230**	5/16"	Ford/Lincoln/ Mercury Vehicles	D3AB-14A600AA, D3AZ-14526D	6
14	10	**615228**	3/8	GM Vehicles	8915135	6

IMPORTANT: To provide proper protection, the Fusible Link should be at least four gauges smaller than the circuit it is spliced into.
Example: 16 gauge Fusible Link is spliced into a 12 gauge circuit.

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FUSES, MISC. FUSES (Cartridge, High Amp & 3AG) & FUSE HOLDERS

FLNR DUAL ELEMENT TIME DELAY CARTRIDGE FUSE

- Dual-element time delay design for branch circuit or motor protection.
- Typical applications include service entrance switches, distribution panelboards, motor control center mains and motor branch circuits and all general purpose circuits.
- **Interchanges with FRN-R series.**
- Voltage rating: Class RK5 DC 125 volt.
- Approvals: UL listed 198L.

PART NUMBER	AMPS	QTY
615485	15	2
615486	20	2
615488	30	2
615489	35	1
615490	40	1

HIGH AMP BOLT-ON FUSES

Ideal for battery and alternator cables or other heavy gauge cables requiring ultra-high current protection.

- **Interchange with Bussman "AMG" & Littlefuse "MEGA".**
- Mounting holes .34 dia.
- Holes space 2.0" apart.

***NOTE: 615238 Fits:**
1995-up Jeep Grand Cherokee (on starter)
1995-up Ford Explorer (under dash)

Part No. 615400
7 pieces • 7 items
12032 plastic tray
615238 615402 615404 615406
615401 615403 615405
Numbers in assortment

PART NUMBER	AMPS
615401	100
615402	125
615403	150
615238*	175

PART NUMBER	AMPS
615404	200
615405	225
615406	250

3 AG (AGC) FAST-ACTING FUSE

- Fast-acting protection of electronic equipment and appliances.
- The circuit protection standard for cost effective reliability and performance.
- Voltage rating: 250 volt (1/4 - 10A), 32 volt (10A - 35A).
- Approvals: UL listed and CSA Certified.

PART NUMBER	VOLTAGE RATING	AMPS	QTY
615462	250V	1/2	5
615463	250V	3/4	5
615467	250V	2	5
615470	250V	4	5

PART NUMBER	VOLTAGE RATING	AMPS	QTY
615471	250V	5	5
615472	250V	6	5
615473	250V	7	5

G14

IN-LINE FUSE HOLDERS

For ATC, ATO & E-Z fuse.

- Made of heat resistant PVC.
- Supplied with two 4" leads. Fuse not included.
- For all automotive, truck & marine applications.

PART NUMBER	TYPE	LEADS	RATED TO	QTY
32327	Std.	16 ga.	20 amps	12
32345	H.D.	12 ga.	30 amps	12

HEAVY DUTY FUSE HOLDER ASSEMBLY

Part No. 32333 (12)

- A universal fuse holder of molded bakelite for high voltage applications.
- Made with heavier wire 12 gauge 8" wire loop with staked and soldered terminals.
- Bayonet type knob makes fuse replacement easy.
- Complete with 30 amp fuse but will accept and AGC or SFE fuse.

UNIVERSAL FUSE HOLDER

- Fuse included-ready to install.
- No soldering necessary.
- 16 ga. wire.

PART NUMBER	AMPS	QTY
32329	14	6

SELF-STRIPPING E-Z FUSE HOLDER

Part E-Z fuse • Littlefuse ATO fuse • Bussman ATC fuse

Part No. 615245 (24)

- Cuts time and cost of installing in line E-Z fuses.
- Fits 18 thru 14 ga. wire.
- Simplifies hook-up.
- Patented self-stripping design requires no wire stripping.
- Install with pliers. No special tools are necessary.

HIGH AMP FUSE HOLDER

High amp mountable fuse holder. Comes with black rubber cover for protection. Cables can be attached from the front, side or the back, 5/16" thread size, nuts included. 1/4" mounting hole. Use with 2 ga. through 8 ga. wire.

Part No. 615408

FUSE TAPS

For Blade Fuses

Tab width: .250 (1/4)

Part No. 210283 100

For MINI Fuses

Tab width: .187 (3/16)

Part No. 615233 50

ATO®/MINI® TESTER & PULLER

- Test and replace ATO/ATC/ E-Z and Mini fuses.
- Indicator glows bright green when fuse is good.

Part No. 615153

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CIRCUIT BREAKERS

UNIVERSAL BLADE STYLE CIRCUIT BREAKERS

Heavy duty replacements for ATC/ATO/E-Z fuses. Snap-off blades guarantee 100% fit in all applications.

Snap off tabs at desired length.

- Fits all cars, light and heavy duty trucks.
- Can be used in fuse blocks requiring offset blades.
- For 12 volt DC electrical systems.
- **Continuously self-resetting;** designed for maximum efficiency and dependability.
- Features universal male blade terminals to fit OEM fuse blocks; assures greater mounting adaptability and helps to minimize inventory.
- Terminals are grooved for easy size adjustment: simply snap-off tabs at desired position with pliers (one terminal at a time.)

PART NUMBER	AMPS	QTY
615251	10	6
615252	15	6
615253	20	6
615255	25	6
615254	30	6

Part No. 615010
8 pieces • 5 items
12032 plastic tray

615251 615252 615253 615254 615255

Numbers in assortment

MINI® CIRCUIT BREAKERS

Standard footprint MINI® circuit breakers, Type II.

- Designed to fit in a MINI fuse block or panel.
- Type II non-cycling, used primarily as a harness protector in 12 volt DC automotive systems.
- **Buss CB212 Series.**

Part No. 615023
7 pieces • 5 items
12034 plastic tray

615515 615516 615517 615518 615519

Numbers in assortment

PART NUMBER	AMPS
615515	10
615516	15
615517	20
615518	25
615519	30

HI-AMP CIRCUIT BREAKERS

Thermal type circuit breakers offer an economical means for limiting over load currents. Since the breaker resets, unlike a fuse, no replacements are required. Various sizes, configurations and styles meet many application requirements.

- Three styles are available with 50 to 150 amp ratings: automatic reset, manual reset, and manual reset with a manual trip feature.
- The manual resets feature a unique reset mechanism for visual indication of a tripped condition.
- Plastic housing approved for engine compartment or marine bilge area applications.
- Typically used for auxiliary and accessory circuits on trucks, buses, recreational vehicles, marine and construction equipment.
- Single pole thermal type breakers are rated up to 30 volts DC maximum.
- Operating temperature of -25°F to 180°F. 1/4-28 studs and surface mount style have rubber boots for insulating the ends.

Surface Mount Automatic Reset

Surface Mount Manual Reset

Surface Mount Manual Reset with Manual Push to Trip Button (SEE NOTE)

HI-AMP BREAKERS SURFACE MOUNT			
AMPS	AUTOMATIC RESET STOCK NO.	MANUAL RESET STOCK NO.	MANUAL TRIP PUSH BUTTON STOCK NO.
50	618450	---	618462
60	618451	---	618463
80	618452	---	---
100	618453	618459	618465
120	618454	---	---
150	---	618461	618467

NOTE: Push to trip functions are similar to manual reset, but push to trip has the additional feature of being manually tripped if circuit interruption is required.

G14

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CIRCUIT BREAKERS

CIRCUIT BREAKER SAE TYPE DEFINITIONS

TYPE I - Automatic Reset
Cycles or continuously resets until the fault is corrected. Type I circuit breakers are typically used to protect circuits which occasionally experience momentary overloads such as wiper motor and headlamp circuits where a self resetting device is preferred.

TYPE II - Modified Reset
Non-cycling, remains in open position while there is power to the circuit. Resets when ignition is turned off. Type II circuit breakers are typically used in applications where fuse replacement is objectionable, such as power window, seat and sunroof circuits.

TYPE III - Manual Reset
Manually resettable circuit breakers remain in the open position until a button, lever or other external reset device is manually depressed. Type III circuit breakers are typically used in applications where a manual reset is desired for safe diagnosis of a circuit fault.

IN-LINE LUG MOUNT CIRCUIT BREAKERS

Type I, continuously self-resetting for 6, 12, 24* Volt applications.

SNAPS INTO STANDARD OE BRACKET

PART NUMBER	AMPS
618355	20
618362	25
618353	30

PART NUMBER	AMPS
618368	35
618357	40
618354	50

SUPPLIED WITH BRACKET

PART NUMBER	AMPS
618365	10
618366	15
618356	20
618367	25

PART NUMBER	AMPS
618359	30
618369	35
618358	40
618360	50

** 24 volt applications limited to resistive loads, lamp loads and a few inductive loads.*

G14

TRUCK CIRCUIT BREAKERS – Non-Cycling

- **Type II – conforms to SAE J553C.**
- **OEM replacement – plug-in type for breaker blocks.**
- **Does not cycle, remains open as long as overload exists. Resets when situation is corrected, or when ignition is turned off.**

MACK

MALE BLADE TERMINALS ON 1.00" CENTERS

PART NUMBER	AMPS
615260	15
615261	20
615262	25
615263	30

NAVISTAR / IHC

MALE BLADE TERMINALS ON 1.08" CENTERS

PART NUMBER	AMPS
615264	10
615266	20
615267	30

MANUALLY RESETTABLE CIRCUIT BREAKERS

- **Type III, features external button used to reset breaker.**
- **Used primarily as a harness protection in heavy duty 12 volt truck systems.**
- **Designed to mount in ATO/ATC fuse blocks and panels.**

PART NUMBER	AMPS	COLOR CODE	OEM# NAVISTAR
615520	10	Red	2011944C1
615521	15	Blue	2011945C1
615522	20	Gold	2011946C1
615523	25	Silver	2011947C1
615524	30	Green	2011948C1

MAXI CIRCUIT BREAKERS

- **These are interchangeable with Maxi automotive fuses.**
- **Rated to 24 volt DC maximum.**
- **Maxi size case.**
- **Conforms to SAE spec J553 Type I or III.**

Automatic Reset Type I

TYPE I AMPS	AUTOMATIC RESET TYPE III STOCK NO.
20	615525
30	615526
40	615527
50	615528

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CIRCUIT PROTECTION ACCESSORIES

ADD-A-CIRCUIT™

A fuse tap and fuse holder that adds additional circuits without cutting or splicing.

- Fast and easy - plugs right into fuse block providing and extra circuit and protection in one step - no cutting or splicing.
- Maintains new car warranties.
- Add any accessory up to 10 amps such as car phone, fax machine, radar detector, CD player, beverage cooler/warmer.
- Saves time and money.

Fuses not included

TWO SIZES AVAILABLE TO FIT ATC/ATO/E-Z and Mini®

ATC/ATO/E-Z - Part No. 615279
Mini® - Part No. 615278

SEALED, HD, AUTOFUSE HOLDER

For ATC/ATO & E-Z fuses, 3 to 30 amp.

- Moisture proof.
- 12 ga. wire tolerates high engine compartment temperatures & most solvents.
- Used by GM since 1985 for auxiliary cooling fan motor harness, and since 1989 to fuse electric fuel pumps.
- For most severe applications.
- Nylon cap and silicone rubber seals - resists moisture, salt spray, oils & fuels.
- For use in recreational vehicles, van conversions, motor homes, police cars, emergency vehicles, buses, trucks, race cars, street rods, boats and industrial equipment.
- Fuse not included.

Part No. 32346 (6)

SEALED, HD, MINIFUSE HOLDER

For "MINI" fuses, 2 to 30 amp.

- Designed for engine compartment use.
- Heat stabilized nylon body.
- Silicone rubber seals.
- Locking cap with mounting bracket.
- Extra long 12 ga. 10" XL (Cross Linked Polyethylene) insulated wire leads will not melt under extreme heat.
- Not affected by most automotive fluids.
- Fuse not included.

Part No. 32332 (6)

G14

MAXI™ FUSE FUSE HOLDER WITH PROTECTIVE CAP

Ideal for high amperage Maxi™ Fuse applications where protective cover is required for harsh environments under the hood.

APPLICATIONS

- Fusible wire retrofit, eliminates fusible links.
- High power accessory lighting.
- Stereo and public address systems.bars).
- High amperage alternators.
- Service vehicles accessories (motors, winches, generators and light bars).

- Two 6" 6 gauge wire leads.
- Rated to 60 amperes at 32 volts.
- Protective cover permits use in harsh environments.
- Mounting hole for firewall installation.
- Alcryn body and cover, and cross link wire for high temperature application.
- Cap secured with removable safety strap.
- Interlock body design for multiple fuse applications.

Part No. 615236

MINI® FUSE HOLDERS

Universal in-line fuse holders designed for use with the soon to be standard Mini® Fuse. Ideal for add-on accessory protection, including under the hood applications.

- Two 4" wire leads.
- Available with 14 gauge black wire, rated up to 20 amps or 12 gauge orange wire, rated up to 30 amps.
- Heavy duty 30 amp fuse holder includes orange insulated wire for easier identification.
- Protective cover permits use in harsh environments.
- Alcryn body and cover for high temperature applications.
- Cap secured with removable strap.

Part No. 615234 2

Part No. 615235 2 Heavy Duty

FUSE HOLDERS WITH PROTECTIVE CAP

For ATO/ATC & E-Z fuses.

- Heavy duty.
- Weather resistant.
- Black TPE body & cap.
- Fuse not included.

Part No. 32385 (12)
Orange 2 x 4" 12 gauge leads
For fuses through 30 amps.

Part No. 32380 (12)
Black 2 x 4" 16 gauge leads
For fuses through 20 amps.

ATC/ATO/E-Z BLADE-TYPE FUSE PANELS

- Compact, lightweight and rugged enough to use in recreational vehicles, trucks, buses and boats.
- The panels will accept -® blade type fuses or blade type automatic or manual reset circuit breakers.
- 30A maximum rating per branch circuit.
- Panels range from 6 to 12 branch protected circuits.
- 160A maximum rating for all branches.
- Easy wiring with 1/4" quick connect branch circuit terminal and stud common ground or 1/4" quick connect, if preferred.
- No top cover is needed, recessed trifurcate fuse contacts.
- Molded of high grade thermoplastic.
- Rated to 105°C with a 94V-0 flame retardant.
- Recessed mounting holes.

PART NO. NO GROUND TERMINALS	PART NO. W/GROUND TERMINALS	NO. OF CIRCUITS
615506	---	6
---	615511	8

NO GROUND

WITH GROUND

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ARROW & KD LIGHTING

2-1/2" DIAMETER-SINGLE BULB

DIMENSIONS: Series AR054: 2-1/2" dia. x 15/16" H. Two 13/64" mtg. Holes on 1-5/16" centers.
MATERIAL: Acrylic lens, ABS housing, phos. bronze contacts AR054-02: black vinyl grommet.
FEATURES: All plastic design, heavy-duty shock protected bulb, side or rear wire exit, completely non-ferrous throughout, "Flow-thru" design... moisture can't be trapped behind lamp. Twist Off Lens, Wedge Base Bulb, Shock Mounted, Corrosion Proof, Positive Moisture Seal.

PART NUMBER	DESCRIPTION	REPLACEMENT PARTS LENS	12V BULB
628004	**AMBER**, White Finish,		168
AR05400712	Marker Only With Pigtail		
628005	**RED**, White Finish,		168
AR05400722	Marker Only With Pigtail		

ARMORED TYPE

DIMENSIONS: Series AR055: 2" x 4-1/2" x 1-1/2" H. Two 1/4" mtg. holes on 4" centers.
MATERIAL: Steel housing, non-ferrous electric system, sponge rubber lens gasket, polycarbonate lens, molded rubber wire grommet.
FINISH: Gray
FEATURES: Lens guaranteed against breakage for 3 years, Mounts without disassembly, PC rated, Side or rear exit, surface mtg.

PART NUMBER	DESCRIPTION	REPLACEMENT PARTS LENS
628006	**AMBER**, Steel, One 12V Bulb,	**628018** (**Amber**)
AR05500512	4 C.P. PC #67	AR96200791
628007	**RED**, Steel, One 12V Bulb,	**628019** (**Red**)
AR05500522	4 C.P. PC #67	AR96200792

THINLINE MARKER

DIMENSIONS: Series AR057: 5" L. x 25/32" W. x 1-1/8" H. Two 1/4" mtg. holes on 4" centers.
MATERIAL: White ABS plastic base, acrylic lens; zinc plated phos. bronze contacts.
FINISH: White
FEATURES: All plastic - completely non-ferrous, 25/32" thin! Fits anywhere, shock mounted wedge bulb, snap on lens and branches ski-jump over lens.

PART NUMBER	DESCRIPTION	REPLACEMENT PARTS 12V BULB (168)
628008	**AMBER**, PC Rated, 3 C.P.	**628020** (**Amber**)
AR05700712	Bulb Marker	AR96200871
628009	**RED**, PC Rated, 3 C.P.	**628021** (**Red**)
AR05700722	Bulb Marker	AR96200872

ALUMINUM DIE CAST ARMORED TYPE

DIMENSIONS: Series AR050: 2-1/16" W. x 5-7/8" L. x 1-1/2" H. Two 1/4" holes on 4-3/8" centers or four 13/64" holes on 3-7/8" x 13/16" centers.
MATERIAL: Aluminum die cast housing, aluminum base, acrylic lens, volara mtg. and felt lens gasket.
FINISH: Plain aluminum.
FEATURES: Mounts without disassembly, stainless steel socket.

PART NUMBER	DESCRIPTION
628027	**AMBER**, Flush Armored,
AR05004512	4 C.P. PC #67
628028	**RED**, Flush Armored,
AR05004522	4 C.P. PC #67

SEALED LAMP MARKER

DIMENSIONS: Series AR052: 11/16" W. x 4-1/2" L. x 1-1/16" H. Two 1/4" diameters mounting holes on 4" centers.
MATERIAL: White ABS plastic base, acrylic lens; brass contacts, grommet molded to wire assembly.
FINISH: White
FEATURES: Quickdisconnect wire assembly, corrosion proof. Sonically selaed throw away light.

PART NUMBER	DESCRIPTION
628029	**AMBER**, Sealed Marker,
AR05200712	PC Rated, 2 C.P.
628030	**RED**, Sealed Marker,
AR05200722	PC Rated, 2 C.P.

STEP LIGHT

Step light or courtesy light suitable for transit, school bus and all vehicles requiring additional lighting. Lens top covered with hood.

BODY: Brass.
SIZE: 3-11/16" long x 2-7/8" wide x 2-1/8" high.
MOUNTING: Two holes for #10 screws. 7/8" diameter clearance hole required for mounting.
FEATURES: Brass body and polycarbonate lens resistant to rust and corrosion.
BULB: #1141.

PART NUMBER		DESCRIPTION
628164	KD3360	**CLEAR**, Chrome-Plated Finish

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WELDON LIGHTING

STOP, TURN and TAIL LENS

Surface Mount Series

Commonly used on school buses, ambulances and fire trucks where high visibility signaling is desired.

- Our 7" x 8" lamp series is available in both double and single function for stop, turn and tail lamps.

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628523	WT2011R	RED, Lens
628522	WT2011A	AMBER, Lens

CLEARANCE MARKER LAMPS

Surface Mount Series

Used as an identification & clearance marker lamp.

- The WT5050 series is designed with a rugged steel base.
- Features pass-through lens mounting screws.
- Mounts on 1.5" centers and grounds through the base.

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628539	WT5020R	RED, Lens
628538	WT5020A	AMBER, Lens

PART NUMBER		DESCRIPTION	MOUNT	COLOR	BULB	AMP
628541	WT5050R	Marker	Surface	RED	904	.69
628540	WT5050A	Marker	Surface	AMBER	904	.69

CLEARANCE MARKER LAMPS

Surface Mount Series

Common in the school & commercial bus markets.

- The WT5000 series features a rugged steel base.
- Mounts on 1.5" centers, grounds through the base and has a single lead wire.
- 3 candlepower.

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628537	WT5002R	RED, Lens
628536	WT5002A	AMBER, Lens

PART NUMBER		DESCRIPTION	MOUNT	COLOR	BULB	AMP
628535	WT5000R	Marker	Surface	RED	168	.35
628534	WT5000A	Marker	Surface	AMBER	168	.35

EIGHT-WAY FLASHER

Surface Mount Series

Meets every conceivable school bus application.

- All internal components and electronics are potted to provide protection from humidity, moisture, road shock and vibration.
- Sealed unit contains eleven fast-on blade terminals, including ground to reduce installation time and confusion.
- 16 amp terminal load with overload protection and installation and connection instructions printed on the flasher s surface.
- The flasher can be mounted with two #10 screws.
- The WT7000 can be easily adapted for a four-way lamp application.

PART NUMBER		DESCRIPTION	MOUNT
628546	WT7000	Universal	Surface

CLEARANCE MARKER LAMPS

Surface Mount Series

- Our armored clearance marker lamp series features two bulbs for redundant light sources.
- The WT5100 series has a bright, chrome-plated shield for years of beautiful service.
- Mounts on 4.5" centers, grounds thru the mounting base and has two-lead wires.
- 2 candlepower per bulb.

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628537	WT5002R	RED, Lens
628536	WT5002A	AMBER, Lens

PART NUMBER		DESCRIPTION	MOUNT	COLOR	BULB	AMP
628545	WT5100R	Marker	Surface	RED	1895	.54
628542	WT5100A	Marker	Surface	AMBER	1895	.54
628549*	WT5100R3W	Marker	Surface	RED	1895	.54
628544*	WT5100A3W	Marker	Surface	AMBER	1895	.54

*3 wire

MODEL SBF90 EIGHT-LAMP FLASHER

Designed primarily for the parts replacement market, this flasher is a "drop in" replacement for the Weldon 7000 and Transpec 6500 flashers in that it has the same mounting hole centers, terminal types, pin assignments and functionality.

Part No. 628590

- Eleven (11) 0.250 inch Faston terminals for wiring connections.
- Industry standard functions, including Sequential and Non-Sequential operation.
- Six inch mounting hole centers.
- Small size - one inch high, less than one inch wide & 6.5 inches long.
- Rugged anodized aluminum case.
- Sealed electronics - no potting compound.
- High efficiency electronic switching circuit design - low heat loss.
- Design safeguards for over current, over temperature, short circuit and loss of ground.
- Sixteen amp lamp outputs.
- Three amp stop arm output.

EIGHT-LAMP SCHOOL BUS ELECTRONIC FLASHER/CONTROLLER

Part No. 628294

- Ultra compact size - 2.30" x 1.25" footprint and Amp Multilock connector makes it ideal f or OEM applications, as well as a replacement for Amp Multilock based flashers currently on the market.
- Connector based wiring terminations - sa ves manufacturing time and reduces errors.
- Industry standard functions - compatible with existing bus designs.
- High efficient power switching design - ver y low heat loss.
- Standard functionality pr ovides for both sequential & nonsequential operation, and will accommodate 4-lamp & 8-lamp warning light configurations.
- Each of the lamp outputs (two red and two amber) are rated at 16 amps. The output for the stop arm is rated at 3 amps.
- Provides safeguards for over current, over temperature, short circuit, and losss of gr ound. Advanced electronic circuity employs surface mount technology (SMT). It's metal case is made of rug ged anodized aluminum.
- Utilizes the Tyco/Amp Multilock Series 070 connector system.The 12-pin header (containing male pins) is integral to the flasher case . The 12-pin connector plug (not supplied with the flasher) uses f emale pins.

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MIRRORS

DOUBLE NICKEL® MIRROR REPLACEMENT PARTS

7” x 10” FLAT

PART NUMBER	GLASS DESCRIPTION
628206	Unheated Flat
ML5671	

— REPLACEMENT PARTS —

PART NUMBER		GLASS DESCRIPTION
628204	ML5617	Flat (glass only)

7” x 10” CONVEX

PART NUMBER	GLASS DESCRIPTION
628207	Unheated Convex
ML5672	

— REPLACEMENT PARTS —

PART NUMBER		GLASS DESCRIPTION
628205	ML5618	Convex (glass only)

WEST COAST MIRROR HEADS - 7” x 16”

- **Reflective surface 90 sq. inches.**
- **First surface chrome.**
- **With 5/16” mounted studs.**

PART NUMBER	FINISH
628110	Bright Stainless Steel
DBHR64	

- **Reflective surface 90 sq. inches.**
- **First surface chrome.**
- **With 3/8” mounted studs.**

PART NUMBER	FINISH
628104	Hi-Gloss Black Enamel
DBHR42	
628105	Stainless Steel
DBHR44	

PART NUMBER	FINISH
628112	Black Heated
DBHRH42	

ROUND CONVEX MIRROR HEADS

7-1/2” Diameter

- **With 1/4” bolt.**
- **Off set mounted.**

PART NUMBER		FINISH
628100	DBHR13	Hi-Gloss Black Enamel
628102	DBHR15	Bright Stainless Steel

CONVEX MIRRORS

8” Diameter

- **With 3/8” mounting bolt.**

CENTER MOUNT

OFF CENTER MOUNT

PART NUMBER		MOUNT DESCRIPTION	FINISH
628202	ML5485	Center	Black Enamel
628203	ML5486	Off Center	w/Brushed Aluminum Trim

WEST COAST MIRROR HEADS

6-1/2” x 16”

- **1/8” silvered glass.**
- **5/16” plated hardware.**

PART NUMBER	FINISH
638336	Black Painted Steel

- **Ribbed, flat back design.**
- **Over 86 sq. in. of flat viewing area.**

6” x 16”

- **Anodized aluminum back.**
- **1/4-20 stud size.**

Part No. 638316

MISC. CONVEX MIRRORS

- **With 1/4” mounting bolt.**

CENTER MOUNT

OFF CENTER MOUNT

PART NUMBER		SIZE	MOUNT DESCRIPTION	FINISH
628602	97872	5	Center	Stainless Steel
628108	DBHR5	6	Center	Stainless Steel
628115	DBHR1115	8	Center	Stainless Steel

7-1/2” x 10-1/2”

- **PVC rim.**
- **Color: Black**

PART NUMBER	DESCRIPTION
638325	Flat Mirror Head
638326	Convex Mirror Head

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MIRRORS MISCELLANEOUS

BUS BOY® MIRROR HEAD

- Replacement for most all school bus & fleet applications.

— Replacement Parts —

PART NUMBER	DESCRIPTION
628200	Rubber Gasket and Lens

PART NUMBER	DESCRIPTION
628201	Mirror Head Only

LARGE RECTANGULAR MIRROR HEADS for Tripod Assemblies

7-1/2" x 10-1/2"

- Glass is mounted in vinyl gasket.
- Features bright stainless steel finish.
- 7-1/2" x 10-1/2" mirror head uses center mount to attach to assembly.
- Silvered glass resists pitting, peeling & corrosion.

PART NUMBER	DESCRIPTION
628600	Large Rectangular Mirror

WIDE ANGLE FLAT & CONVEX MIRRORS

6-1/2" x 6" and 6-1/2" x 10" Side Mount Mirrors

— Replacement Parts —

PART NUMBER	DESCRIPTION
628146	Glass only
628145	Glass only

PART NUMBER		DESCRIPTION
628147	6-1/2 x 10	Flat mirror
628148	6-1/2 x 6	Convex mirror

- Replaceable 1/8" glass on all mirrors.
- Outer gasket for edge shock protection.
- 5/16"-18 mounting port.
- White painted steel.
- Viewing area on flat glass mirrors: Over 32 sq. in. on 6-1/2" x 6" models, over 55 sq. in. on 6-1/2" x 10 models.

MINI HAWK-EYE® CROSSVIEW MIRROR

- Complete field of view coverage for FMVSS-111 compliance.
- Full oval shape provides larger viewing area for driver.
- Universally adjustable ball stud allows for easy adjustment.
- Lower overall height minimizes obstruction.
- Aerodynamic system profile provides smoother airflow which reduces vibration.
- Contoured housing provides stability.
- Shallow mirror lens reduces image distortion.
- Small profile for reduced blindspot in small bus applications.
- Full oval gives driver perspective of vehicle within viewing area.

PART NUMBER		DESCRIPTION	SIZE
638367	3365H	Mirror head, with ball stud mount. (Heated)	12.5 x 9.8 Oval
638365	3365	Mirror head, with ball stud mount.	12.5 x 9.8 Oval
638362	2365	Mirror head, with ball stud mount.	12.5 x 10.8 Oval

G15

ARM & MOUNTING ONLY

For use with 1/4" sphere nut.

Picture for display purposes only.

PART NUMBER		FINISH
628106	DBHR465	Stainless

MISC. MIRROR BRACKET

- For use with 1/4" sphere nut.

PART NUMBER		FINISH
628113	475-12C	Stainless Steel

RETRAC MIRROR HEADS

6" x 16"

- With yellow chevrons.
- Finest quality non-glare glass.
- Lightweight for vibration-free performance.
- Head mounting hardware included.
- Corrosion-free.
- Universally fits all assemblies.

PART NUMBER		MOUNT DESCRIPTION	FINISH
628251	RT1158	Flange	Bright Anodized Alum. w/Yellow Chevrons

7" x 16"

- Navistar style mirror head.
- Head mounting hardware included.
- Finest quality non-glare glass.
- Universally fits all assemblies.

PART NUMBER		MOUNT DESCRIPTION	FINISH
628250	RT1156	Flange	White

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CLEARANCE & MARKER LIGHTING

MODEL 30 PRODUCTS - LED 2" SEALED

- **Highest quality LED lighting products on the market from a brand you can trust.**
- **Standard lamp has 2 diode pattern.**
- **Less current draw, resulting in increased battery & alternator life while allowing more power for other vehicle requirements.**

MATERIAL:
- Polycarbonate lens, housing & flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 14v, .03 amp (red), 2 cp. and .08 amp (yellow).

PART NUMBER		DESCRIPTION
628506	TL30250R	RED
628507	TL30250Y	YELLOW

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628357	TL30700	Grommet
628470	TL93745	Adapter Plug

MODEL 30 PRODUCTS - LED 2" SEALED PC RATED

- **Highest quality LED lighting products on the market from a brand you can trust.**
- **6 diode pattern.**
- **Most advanced & cost effective 2" clearance & marker lamp.**
- **SAE PC rated for combination clearance/marker applications.**
- **Less current draw, resulting in increased battery & alternator life while allowing more power for other vehicle requirements.**

MATERIAL:
- Polycarbonate lens, housing & flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 14v, 1 amp.

PART NUMBER		DESCRIPTION
628508	TL30285R	RED
628509	TL30285Y	YELLOW

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628357	TL30700	Grommet
628470	TL93745	Adapter Plug

MODEL 30 LED 2" - REFLECTORIZED MARKER & CLEARANCE, 10 DIODE PATTERN

MATERIAL:
- Polycarbonate lens, housing.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 13.5v, .05 amp.

PART NUMBER		DESCRIPTION
628596	TL3050	RED
628597	TL3050A	YELLOW

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628357	TL30700	Grommet
628410	TL94902	Adapter Plug

MODEL 10 PRODUCTS - LED 2-1/2" SEALED

- **Highest quality LED lighting products on the market from a brand you can trust.**
- **Standard lamp has 2 diode pattern.**
- **Less current draw, resulting in increased battery & alternator life while allowing more power for other vehicle requirements.**

MATERIAL:
- Polycarbonate lens, housing & flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 14v, .03 amp (red), 2 cp. and .08 amp (yellow).

PART NUMBER		DESCRIPTION
628437	TL10250R	RED
628438	TL10250Y	YELLOW

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628313	TL10700	Grommet
628470	TL93745	Adapter

MODEL 10 PRODUCTS - LED 2-1/2" SEALED PC RATED

- **Highest quality LED lighting products on the market from a brand you can trust.**
- **Standard lamp has 8 diode pattern.**
- **Most advanced & cost effective 2-1/2" clearance & marker lamp.**
- **SAE PC rated for combination clearance/marker applications.**
- **Electronics completely sealed in epoxy to resist corrosion & moisture**

MATERIAL:
- Polycarbonate lens, housing & flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 14v, 1 amp.

PART NUMBER		DESCRIPTION
628450	TL10275R	RED
628451	TL10275Y	YELLOW

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628313	TL10700	Grommet
628410	TL94902	Plug

MODEL 10 PRODUCTS - LED 2-1/2" SEALED PC RATED

- **Highest quality LED lighting products on the market from a brand you can trust.**
- **8 diode pattern.**
- **Most advanced & cost effective 2-1/2" clearance & marker lamp.**
- **SAE PC rated for combination clearance/marker applications.**
- **Less current draw, resulting in increased battery & alternator life while allowing more power for other vehicle requirements.**

MATERIAL:
- Polycarbonate lens, housing & flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 14v, 1 amp.

PART NUMBER		DESCRIPTION
628452	TL10286R	RED
628453	TL10286Y	YELLOW

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628313	TL10700	Grommet
628410	TL94902	Plug

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MODEL 19 PRODUCTS - LED SEALED

- Innovative optic design allows combination lamps to function as two.
- Draws less current, allowing more power for other vehicle requirements.
- Designed to fit applications requiring minimal space.
- Must be mounted horizontally.
- Standard lamp has 2 diode pattern.

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 14v, .05 amp.

PART NUMBER		DESCRIPTION
628440	TL19250R	RED
628441	TL19250Y	YELLOW

MODEL 35 PRODUCTS - LED SEALED

- Slim 3/4" wide design makes lamp perfect solution for narrow rail designs.
- 2 diode pattern.
- Must be mounted horizontally.
- Not suitable for PC requirements.

— LED KITS —

PART NUMBER		DESCRIPTION
628445	TL35001R	RED, 12v
628446	TL35001Y	YELLOW, 12v

PART NUMBER		DESCRIPTION (LED LAMPS)
628460	TL35200R	RED, 12v
628461	TL35200Y	YELLOW, 12v

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628475	TL94862	Plug

MATERIAL:
- Polycarbonate lens & housing.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at .05 amp.
- PC rated lamp designed at .12 amp.

G15

MODEL 35 PRODUCTS - LED SEALED

- Slim 3/4" wide design makes lamp perfect solution for narrow rail designs.
- 5 diode pattern.
- Must be mounted horizontally.
- SAE PC rated for combination clearance/marker applications.

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 13.5v, .12 amp.

PART NUMBER		DESCRIPTION
628443	TL35375R	RED
628444	TL35375Y	YELLOW

MODEL 44 ROUND LED S/T/T T/T

- 24 diode pattern.
- Uses standard right angle plug.
- Unique LED array displays a fuil pattern light output design.
- Less current draw, resulting in increased battery & alternator life while allowing more power for other vehicle requirements.

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- 12v lamp.
- Designed at 13.5v, .030/.380 amp.

PART NUMBER		DESCRIPTION
628503	TL4050	RED
628504	TL4050A	YELLOW

SUPER 44 PRODUCTS - STOP/TURN/TAIL LED 4" SEALED

- Faster illumination offers significant safety benefit for allowing driver to react quicker, resulting in an average distance of 3' for every 10 m.p.h.
- 6 diode pattern.
- Less current draw, resulting in increased battery & alternator life while allowing more power for other vehicle requirements.
- LEDs have no filament, therefore are extremely resistant to shock & vibration.

PART NUMBER		DESCRIPTION
628463	TL44302R	RED, Lamp only
628465	TL44326R	RED & Black Flange

MATERIAL:
- Polycarbonate or acrylic lens, housing & flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 14v, .03 amp

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628376		Grommet
628472	TL94706	Adapter

MODEL 60 PRODUCTS - STOP/TURN/TAIL or FRONT/PARK/TURN LED OVAL SEALED

- Highest quality LED lighting products on the market from a brand you can trust.
- LEDs have no filament, therefore are not susceptible to shock & vibration, a major cause of failure for lamps with incandescent bulbs.
- Less current draw, resulting in increased battery & alternator life while allowing more power for other vehicle requirements.
- Faster illumination offers significant safety benefit for allowing driver to react quicker, resulting in an average distance of 3' for every 10 m.p.h.
- Meet stringent front, park and turn requirements.

MATERIAL:
- Polycarbonate or acrylic lens & housing.
- ABS flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 14v, .3 amp (stop), .1 amp (tail), .5 amp (turn).

PART NUMBER		DESCRIPTION
628468	TL60250R	RED

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628397	TL60700	Grommet
628472	TL94706	Adapter

MODEL 60 PRODUCTS - LED OVAL SEALED AUXILIARY/TURN

- Auxiliary turn is a two function lamp & complies with SAE 592e & 2042 on both functions.
- Sequential arrow is to be used as an auxiliary lamp only.
- Not suitable for "stand alone" front or rear turn applications.
- Electronics completely sealed in epoxy to resist corrosion & moisture.

MATERIAL:
- Polycarbonate lens & housing.
- ABS flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- 26 diode, 12v lamp designed at 14v, .42 amps (major), .10 amps (minor).
- 25 diode, 12v sequential arrow designed at 14v, .12 amps (major), .08 amps (minor).

PART NUMBER		DESCRIPTION
628467	TL60275Y	YELLOW

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628397	TL60700	Grommet
628472	TL94706	Adapter

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DOUBLE FACE LED - PEDESTAL LAMP

- **21 diode pattern per side.**

MATERIAL:
- Polycarbonate lens.
- Chrome plated housing.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 12.8v, major .625 +/- .035 amp, minor .046 +/- .015 amp.

PART NUMBER		DESCRIPTION
628483	TL2750	RED/AMBER Double Faced Lamp

SINGLE FACE LED - PEDESTAL LAMP

- **21 diode pattern per side.**

MATERIAL:
- Polycarbonate lens.
- Chrome plated housing.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 12.8v, major .252 +/- .035 amp, minor .019 +/- .015 amp, major .476 +/- .035 amp, minor .027 +/- .015 amp.

PART NUMBER		DESCRIPTION
628484	TL2751	RED Lamp
628485	TL2751A	YELLOW Lamp

S/T/T & REAR TURN LED - RECTANGULAR

- **24 diode pattern per side.**
- **Uses standard right angle PL-3 connection.**
- **Unique LED array displays full pattern light output.**
- **Epoxy encapsulated electronics.**

MATERIAL:
- Acrylic lens, housing & flange.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 13.5v, .03/.38 amp.

PART NUMBER		DESCRIPTION
628486	TL4550	RED Lamp
628487	TL4550A	YELLOW Lamp

C/M LED SEALED LAMP

- **Standard PL-10 connection.**
- **2 diode (red), 3 diode (yellow) LED pattern.**
- **Encapsulated electronics prevents damage from moisture & corrosion.**
- **Not suitable for PC requirements.**

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- Light emitting diodes (LEDs).

PART NUMBER		DESCRIPTION
628477	TL1560	RED Lamp
628478	TL1560A	YELLOW Lamp

SERIES 21 C/M LED LAMP

- **8 diode pattern.**
- **Less susceptible to shock and vibration.**

MATERIAL:
- Acrylic lens.

LIGHT SOURCE:
- Light emitting diodes (LEDs).

PART NUMBER		DESCRIPTION
628479	TL2150	RED Lamp
628480	TL2150A	YELLOW Lamp

RECTANGULAR LED - DOUBLE BULLSEYE LAMPS

- **16 diode double bullseye pattern.**
- **Encapsulated electronics.**
- **Hard-wired design elimiates pin corrosion.**

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- Designed at 13.5v, .080 amp.

PART NUMBER		DESCRIPTION
628481	TL2660	RED Lamp
628482	TL2660A	YELLOW Lamp

MODEL 12 PRODUCTS - THE GUARDIAN DEFLECTOR MOUNT

- **Gray painted steel housing.**
- **Fully protected lens with high guard.**
- **Pressure pad tightly seals lens.**
- **Quick-click lamp removal.**

MATERIAL:
- Polycarbonate lens & housing.
- Steel mount.
- Foam gasket.

PART NUMBER		DESCRIPTION
628434	TL1105	RED, steel shock/mount
628433	TL1105A	YELLOW, steel shock/mount

SLIMLINE BULB REPLACEABLE

- **U-Haul / Stoughton trailer replacement lamp.**
- **Snap-on lens for easy bulb & lens replacement.**
- **Surface mounted, slim styling.**
- **Shock/mount for maximum bulb life.**
- **Permastat base will not rust.**
- **Replaces Truck Lite 26338 series.**

MATERIAL:
- Polycarbonate lens & housing.
- 18 gauge wire.

LIGHT SOURCE:
- Bulb: #193

PART NUMBER		DESCRIPTION
628448	TL1520	RED
628449	TL1520A	YELLOW

MODEL 26 PRODUCTS - BULB REPLACEABLE

- **Features snap-on lens for quick and easy bulb replacement.**
- **High impact plastic lens & housing.**
- **Not suitable for PC requirements.**

MATERIAL:
- Polycarbonate lens.
- ABS housing.

LIGHT SOURCE:
- Bulb: Two #194 wedge base.

PART NUMBER		DESCRIPTION
628454	TL26312R	RED
628455	TL26312Y	YELLOW

SUPER 10 PRODUCTS - 2-1/2" SEALED

Sealed polycarbonate lens and housing offer superior impact and heat protection

- **24 month limited warranty.**
- **Unique shock-mount extends bulb life.**
- **Meets PC requirements on a 45° angle using all mounting devices.**

MATERIAL:
- Sealed polycarbonate lens & housing.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- 15,000 hr. rated bulb life.
- Designed at 14v, .33 amp, 2 cp.

PART NUMBER		DESCRIPTION (LAMP ONLY)
628307	TL10208R	RED
628308	TL10208Y	YELLOW

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628313	TL10700	Grommet
628410	TL94902	Plug

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CLEARANCE & MARKER LIGHTING

MODEL 10 PRODUCTS - 2-1/2" SEALED

- Meets PC requirements on a 45° angle in mounting devices #10708 or #10720.

PART NUMBER		DESCRIPTION (LAMP ONLY)
628303	TL10202R	RED, 12v
628305	TL10205R	RED, 12v Reflectorized
628304	TL10202Y	YELLOW, 12v
628306	TL10205Y	YELLOW, 12v Reflectorized

MATERIAL:
- High impact sonically sealed polycarbonate lens & housing.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- 15,000 hr. rated 12v bulb life.
- 12v designed at 14v, .33 amp, 2 cp.

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628313	TL10700	Grommet
628410	TL94902	Plug

MODEL 14 PRODUCTS - RECTANGULAR SEALED

- Features snap-in lamp with reflector.
- Grommets flush mount the lamp to vehicle.
- Not suitable for PC requirements.

MATERIAL:
- Sonically sealed polycarbonate reflectorized lens & housing.
- PVC grommet.

LIGHT SOURCE:
- 15,000 hr. rated 12v bulb life.
- 12v designed at 14v, .33 amp, 2 cp.

PART NUMBER		DESCRIPTION (LAMP ONLY)
628321	TL14200R	RED, 12v
628322	TL14200Y	YELLOW, 12v

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628323	TL14701	Black Grommet

MODEL 15 PRODUCTS - RECTANGULAR SEALED

- Fits in most narrow header rails.
- Mounts vertically or horizontally.
- Snap-lock tabs allow quick & easy installation.
- Suitable for PC requirements on a 45° angle.

MATERIAL:
- Polycarbonate lens & housing.
- 16 gauge wire.

LIGHT SOURCE:
- 15,000 hr. rated 12v bulb life.
- 12v designed at 14v, .33 amp, 2 cp.

PART NUMBER		DESCRIPTION
628325	TL15200R	RED, 12v
628326	TL15200Y	YELLOW, 12v

MODEL 19 PRODUCTS - RECTANGULAR SEALED

- Designed to fit in limited mounting areas.
- Fits in most narrow header rails.
- Can be mounted vertically or horizontally.
- Snap-lock tabs allow quick & easy installation.
- Suitable for PC requirements on 45° angle when using base mounts.

MATERIAL:
- Polycarbonate lens & housing.
- 16 gauge wire.

LIGHT SOURCE:
- Two 12v bulbs designed at 14v, .33 amp, 2 cp.

PART NUMBER		DESCRIPTION
628337	TL19200R	RED
628338	TL19200Y	YELLOW

SUPER 21 PRODUCTS - RECTANGULAR SEALED

- 24 month limited warranty.
- Version available for ABS requirements.
- Suitable for PC requirements on a 45° angle with additional reflectors.
- Optional gaskets available to improve seal between lamp & body.

MATERIAL:
- Sealed acrylic lens & ABS housing.
- 16 gauge wire.

LIGHT SOURCE:
- 12v designed at 14v, .33 amp, 2 cp.

PART NUMBER	DESCRIPTION
628345	RED, 12v Lamp
TL21201R	w/Reflector
628346	YELLOW, 12v Lamp
TL21201Y	w/Reflector

PART NUMBER		DESCRIPTION
628343	TL21200R	RED, 12v
628341	TL21002R	RED, 12v Reflectorized*
628344	TL21200Y	YELLOW, 12v
628342	TL21002Y	YELLOW, 12v Reflectorized*

*Lamps w/Hot Wire.

MODEL 30 PRODUCTS - 2" SEALED

- Lamp designed for PC requirements on a 45° angle in mounting devices, TL30720, surface mount flange.

MATERIAL:
- Polycarbonate lens & housing.
- 16 gauge wire.

LIGHT SOURCE:
- 15,000 hr. rated 12v bulb life.
- 12v designed at 14v, .33 amp, 2 cp.

PART NUMBER		DESCRIPTION
628349	TL30200R	RED, 12v
628350	TL30200Y	YELLOW, 12v

MODEL 30 PRODUCTS - 2" SEALED BEEHIVE

- Beehive lens designed for cab marker use.
- Lens & housing are sonically sealed.
- Suitable for PC requirements on a 45° angle.

MATERIAL:
- Hi impact polycarbonate lens & housing.

LIGHT SOURCE:
- 15,000 hour rated bulb.
- 12v designed at 14v, .33 amp, 2 cp.

PART NUMBER		DESCRIPTION
628351	TL30201R	RED
628364	TL30201Y	YELLOW

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MODEL 10 & 30 PRODUCTS - METAL I.D. BAR

- **Features black enameled ID bar.**
- **Lamps are mounted on 6" centers.**

PART NUMBER		DESCRIPTION	SERIES
628319	TL10744R	**RED**, Kit w/6" Centers	10 Lamps, 2-1/2"
628365	TL30740R	**RED**, Kit w/6" Centers	30 Lamps, 2"

MATERIAL:
- Polycarbonate lens & housing.
- Black enameled metal bar.
- 14 gauge wire.

LIGHT SOURCE:
- 12v bulb, .33 amp, 2 cp.

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628303	TL10202R	**RED**, Lamps
628349	TL30200R	**RED**, Lamps
628407	TL93906	Wiring Harness

MODEL 15 PRODUCTS - POLYCARBONATE ID BAR

- **Features high impact polycarbonate ID bar designed to fit in limited mounting areas.**
- **Lamps are mounted on 6" centers.**
- **Direct replacement for Ford.**
- **Fits most narrow header rails.**
- **Snap-lock tabs allow easy installation.**

PART NUMBER		DESCRIPTION
628333	TL15745R	**RED**, Kit

MATERIAL:
- Polycarbonate lens, housing & ID bar.
- 16 gauge wire.

LIGHT SOURCE:
- 12v bulb, .33 amp, 2 cp.

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628325	TL15200R	**RED**, 12v Lamps
628409	TL93945	Wiring Harness

MODEL 45 PRODUCTS - STOP/TURN/TAIL & FRONT/PARK/TURN

- **Mount horizontally or vertically.**
- **Heavy duty dual filament cartridge bulb.**
- **Unique shock mount absorbs shock & vibration.**

PART NUMBER		DESCRIPTION
628488	TL45202R	**RED**, Stop/Turn/Tail
628494	TL45204	**RED** with Reflector with back-up

MATERIAL:
- Polycarbonate lens, housing.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Dual filament bulb.
- Designed at 13.5v, 2.16/.47 amp.

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628499	TL45700	Grommet
628416	TL94993	Pigtail

MODEL 40 S/T/T & F/P/T PRODUCTS - 4" SEALED

- **24 month limited warranty.**
- **Flush mount grommets are designed for mounting in a 4-1/2" hole.**

MATERIAL:
- Polycarbonate lens & housing.
- ABS flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Heavy-duty dual filament bulb.
- Designed at 12v, 2.1/.48 amp, 32/2 cp.

PART NUMBER		DESCRIPTION (LAMP ONLY)
628367	TL40202R	**RED**, S/T/T
628368	TL40202Y	**YELLOW**, F/P/T
628370	TL40002R	**RED**, Kit

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628376	TL40700	Grommet
628416	TL94993	Right Angle Plug

SUPER 40 S/T/T & F/P/T PRODUCTS - 4" SEALED

- **36 month limited warranty.**
- **DiamondShell™ versions available for additional protection.**
- **Flush mount grommets are designed for mounting in a 4-1/2" hole.**

MATERIAL:
- Polycarbonate lens & housing.
- ABS flange.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Heavy duty dual filament cartridge bulb.
- Designed at 13.5v, 2.16/.47 amp.

PART NUMBER		DESCRIPTION (LAMP ONLY)
628371	TL40242R	**RED**, S/T/T
628375	TL40248R	**RED**, S/T/T Reflectorized
628372	TL40242Y	**YELLOW**, F/P/T

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628376	TL40700	Grommet
628416	TL94993	Right Angle Plug

SUPER 60 S/T/T & F/P/T PRODUCTS - OVAL SEALED

- **24 month limited warranty.**
- **Mounts horizontally or vertically.**

PART NUMBER		DESCRIPTION (LAMP ONLY)
628393	TL60202R	**RED**, 12v
628394	TL60202Y	**YELLOW**, 12v

MATERIAL:
- Polycarbonate lens & housing.
- PVC grommet.
- 6 gauge wire.

LIGHT SOURCE:
- 12v designed at 12.8v, 2.1/.48 amp, 32/2 cp.

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628397	TL60700	Grommet
628416	TL94993	Right Angle Plug

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UNIVERSAL SIGNAL, LICENSE & BACK-UP and INTEGRAL STROBE LIGHTING

MODEL 60 SIDE TURN PRODUCTS - 6" SEALED

- **Features side indicator, marker/clearance & reflector functions.**
- **Uses standard mounting holes & accessories.**
- **Heavy-duty shock-mounted bulb.**
- **Narrow width facilitates.**
- **Meets SAE J2039 recommendation for side turn signal.**

MATERIAL:
- Vibration sealed polycarbonate lens & housing.
- PVC grommet.
- 16 gauge wire.

LIGHT SOURCE:
- Dual filament baseless bulb.
- 12v designed at 12.8v, .2.1/.49 amp, 32/2 cp.

PART NUMBER		DESCRIPTION (LAMP ONLY)
628396	TL60215Y	**YELLOW**
628392	TL60015Y	**YELLOW**, Kit

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628397	TL60700	Grommet

MODEL 40 PRODUCTS - 4" SEALED

- **24 month limited warranty.**
- **Bulb is shock mounted for extended life.**
- **Legal only for back-up function.**
- **Not recommended for dome lamp use.**

MATERIAL:
- Vibration sealed polycarbonate lens & housing.
- ABS flange.

LIGHT SOURCE:
- Designed at 12.8v bulb, 2.1 amp, 32 cp.

PART NUMBER		DESCRIPTION
628369	TL40204	**CLEAR**, 12v Lamp

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628376	TL40700	Grommet

SUPER 44® LED INTEGRAL STROBE 42 DIODE PATTERN

MATERIAL:
- Polycarbonate lens, housing & flange.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 13.5v.

- **External power pack not required.**
- **Metalized reflector version offers more intense focused light.**
- **Dual or quad flashing patterns.**
- **Meets recommended SAE J1318 & J845 photometric specifications.**
- **Synchronized alternating feature.**
- **Lamp life rated at 100,000 hours.**
- **Resistance to shock & vibration.**
- **Fit 'N Forget® adapter plug provides corrosion & moisture resistance.**

PART NUMBER		DESCRIPTION (LAMP ONLY)
628592	TL44212R	**RED** w/Metalized Reflector
628593	TL44212Y	**YELLOW** w/Metalized Reflector

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628376	TL40700	Grommet
628591	TL95220	Plug

SUPER 60® LED INTEGRAL STROBE 36 DIODE PATTERN

MATERIAL:
- Polycarbonate lens, housing & flange.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- Designed at 13.5v.

- **External power pack not required.**
- **Metalized reflector version offers more intense focused light.**
- **Dual or quad flashing patterns.**
- **Meets recommended SAE J1318 & J845 photometric specifications.**
- **Synchronized alternating feature.**
- **Lamp life rated at 100,000 hours.**
- **Resistance to shock & vibration.**
- **Fit 'N Forget® adapter plug provides corrosion & moisture resistance.**

PART NUMBER		DESCRIPTION (LAMP ONLY)
628594	TL60362R	**RED** w/Metalized Reflector
628595	TL60362Y	**YELLOW** w/Metalized Reflector

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628397	TL60700	Grommet
628591	TL95220	Plug

3810 SERIES SAE CLASS I SURFACE LED LIGHT HEADS

MATERIAL:
- Tough, clear polycarbonate housing with urethane encapsulated electronics.

LIGHT SOURCE:
- High output 75 FPM quad flash operation.
- Discrete units are colorless when not illuminated.

- **3810 Series directional LED's comprise 42 individual 1/4 watt LED's with individual reflectors to provide truly outstanding light output in a very cost effective package.**
- **These quad flash LED light heads offer fit 'N forget, maintenance free operation and low amp draw.**
- **LED's offer a long, maintenance free service life.**
- **Warranty: 5 year.**
- **Temperature range: -22°F to +122°F (-30°C TO +50°C)**
- **SAE J845 Class I.**
- **CE, e.**

PART NUMBER		DESCRIPTION (LAMP ONLY)
628296	3810A	**AMBER** quad flash LED directional light head

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LICENSE & BACK-UP LIGHTING

SUPER 40 PRODUCTS - 4" SEALED

- **36 month limited warranty.**
- **Flange & flush mount grommets designed for mounting in a 4-1/2" hole.**
- **Two lamps required to meet Federal Lighting Regulations.**
- **Not recommended for dome lamp use.**

PART NUMBER		DESCRIPTION
628373	TL40244	**CLEAR**
628505	TL40238	1/2 Silvered

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- Designed at 13.5v bulb, 2.1 amp, 32 cp.

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628376	TL40700	Grommet

LED BACK-UP 4" ROUND SEALED

- **24 diode pattern.**
- **Uses standard right angle plug, Part No. 628416.**
- **Epoxy encapsulated electronics.**
- **Less current draw, resulting in increased battery & alternator life while allowing more power for other vehicle requirements.**

MATERIAL:
- Polycarbonate lens & housing

LIGHT SOURCE:
- Light Emitting Diodes (Leds) 12v lamp designed at 13.5v, .249 amp

PART NUMBER		DESCRIPTION
628502	TL4060C	**CLEAR**

MODEL 60 PRODUCTS - OVAL SEALED

- **Heavy-duty shock-mounted bulb.**
- **Two lamps required to meet Federal Lighting Regulations.**
- **Legal mounted vertically or horizontally.**
- **Not recommended for dome lamp use.**

PART NUMBER		DESCRIPTION
628395	TL60204	**CLEAR**

MATERIAL:
- High impact, vibration sealed polycarbonate lens & housing.

LIGHT SOURCE:
- Designed at 12.8v bulb, 2.1 amp, 32 cp.

— OPTIONAL PARTS —

PART NUMBER		DESCRIPTION
628397	TL60700	Grommet

MODEL 26 PRODUCTS - BULB REPLACEABLE

- **Extra rugged cadmium-plated steel housing.**
- **Screw lock cover cams on/off for easy bulb replacement.**

MATERIAL:
- Steel housing.

LIGHT SOURCE:
- **Bulb:** #67 designed at 13.5v, .59 amp, 4 cp.

PART NUMBER		DESCRIPTION
628347	TL26330	**CLEAR**

MODEL 15 PRODUCTS - RECTANGULAR SEALED

- **High impact polycarbonate sonically sealed lens & housing.**
- **Features 15,000 hour long life 12v bulb.**

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- 12v designed at 14v, .33 amp, 2 cp.

PART NUMBER		DESCRIPTION
628327	TL15208	**CLEAR**, 12v

MODEL 15 PRODUCTS - MOUNTING BRACKET

- **Features snap-fit mount for quick installation & easy replacement.**
- **Bracket may be surface mounted.**
- **Optional mounting gasket improves seal between lamp & body.**

MATERIAL:
- High impact polycarbonate bracket.

PART NUMBER		DESCRIPTION
628332	TL15729	**GRAY**, Bracket

MODEL 17 PRODUCTS - TRIANGULAR SEALED

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- Designed at 14v, .35 amp, 3 cp.

- **High impact polycarbonate sonically sealed lens & housing.**
- **Designed to mount with bracket, TL17720.**

PART NUMBER		DESCRIPTION
628334	TL17002	Kit w/Straight Hot Wire

MODEL 19 PRODUCTS - RECTANGULAR SEALED

- **High impact polycarbonate sonically sealed lens & housing.**
- **Long life 15,000 hour bulb.**

MATERIAL:
- Polycarbonate lens & housing.

LIGHT SOURCE:
- Two bulbs designed at 14v, .33 amp, 2 cp each.

PART NUMBER		DESCRIPTION
628336	TL19206	**CLEAR**

MODEL 26 PRODUCTS - BULB REPLACEABLE

- **Features chrome plated brass housing.**
- **Snap-fit design uses standard 1-1/4" dia. hole.**
- **Commonly used to illuminate a license plate on step bumpers.**
- **Two units required for license illumination.**
- **Ideal for courtesy, map, instrument, license or step lighting.**
- **Snaps securely into any panel thickness.**

MATERIAL:
- Brass housing.

LIGHT SOURCE:
- Bulb: #67 designed at 13.5v, .59 amp, 4 cp.

PART NUMBER	
628491	TL26331

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MODEL 80 DOME

- **Epoxy-powder coated steel housing.**

MATERIAL:
- Steel housing.
- Polycarbonate lens.
- 18 gauge wire.

LIGHT SOURCE:
- Bulb: #1156.
- Designed at 12.8v, 2.1 amp, 32 cp.

PART NUMBER		DESCRIPTION
628400	TL80350	Chrome w/switch

3" REFLECTORS

- **TL98005Y has adhesive backing for ease of installation.**

MATERIAL:
- Sealed acrylic lens & housing.

PART NUMBER		DESCRIPTION
628430	TL98005Y	**YELLOW**, Adhesive Backing

MODEL 15 UTILITY - RECTANGULAR SEALED

- **High impact polycarbonate lens & housing.**

MATERIAL:
- Sonically sealed polycarbonate lens & housing.

LIGHT SOURCE:
- 15,000 hr. rated 12v bulb life.
- Designed at 14v, .33 amp, 2 cp.

PART NUMBER		DESCRIPTION
628324	TL15200C	**CLEAR**, 12v

TRIANGULAR REFLECTOR KIT

- **With three collapsible 17" reflectors.**
- **Features high impact weighted plastic base.**
- **Includes reusable storage container measures 18-1/2" L x 5" W x 4-1/2" H.**

PART NUMBER		DESCRIPTION
628425	TL97974	Reflector Kit

MODEL 19 UTILITY - RECTANGULAR SEALED

- **High impact polycarbonate lens & housing.**

MATERIAL:
- Sonically sealed polycarbonate lens & housing.

LIGHT SOURCE:
- 15,000 hr. rated 12v bulb life.
- Two bulbs designed at 14v, .33 amp, 2 cp each.

PART NUMBER		DESCRIPTION
628335	TL19200C	**CLEAR**

COMPACT RECTANGULAR REFLECTORS

- **Mounts with adhesive backing or screws.**

MATERIAL:
- Acrylic lens.
- Adhesive backing.
- 4.37 x 1.30.

PART NUMBER		DESCRIPTION
628426	TL98003R	**RED**
628427	TL98003Y	**YELLOW**

MODEL 15 PRODUCTS - LED SEALED LICENSE & UTILITY

US Patent #5934798

- **Meets SAE J587 & European ECE regulations 4.**
- **6 diode pattern.**
- **License applications must use brackets shown below.**
- **Hard-wired design w/adapter plug for quick changeover without rewiring.**

MATERIAL:
- Polycarbonate or acrylic lens, housing & flange.

LIGHT SOURCE:
- Light emitting diodes (LEDs).
- 12v designed at 13.5v, .05 amp.

— OPTIONAL PARTS —

PART NUMBER	DESCRIPTION
628332	Bracket

MODEL 26 PRODUCTS - LICENSE LIGHT

- **Features high impact housing with streamline design.**
- **Mounts on 1-3/4" hole centers.**

MATERIAL:
- Polycarbonate lens.
- ABS housing.

LIGHT SOURCE:
- Bulb: #67 designed at 13.5v, .59 amp, 4 cp.

PART NUMBER		DESCRIPTION
628497	TL26335	License Light

G15

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MOUNTING ACCESSORIES

GROMMET MOUNTS - FOR 2-1/2' LAMPS

- Flush mounts 2-1/2" diameter lamps.
- Wide groove for panel thickness up to .250".
- Suitable for PC requirements on a 45° angle when using LED combination or Super 10 products.

PART NUMBER		DESCRIPTION
628310	TL10401	Open Back, Kit

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628313	TL10700	Grommet
628410	TL94902	Plug

MATERIAL:
- PVC grommet.
- 16 gauge wire.

DIAPHRAGM GROMMET

- Designed for edge lighting.
- Suitable for PC requirements on a 45° angle.

PART NUMBER		DESCRIPTION
628315	TL10708	Grommet

MATERIAL:
- Rubber grommet.
- 16 gauge wire.

3" GROMMET MOUNTS

- Designed for recess mounting.
- Adapts to surface thickness up to .125".
- Suitable for PC requirements on a 45° angle when using LED combination or Super 10 lamps.

PART NUMBER		DESCRIPTION
628311	TL10404	Grommet, Kit

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628314	TL10704	Grommet
628410	TL94902	Plug

MATERIAL:
- PVC grommet.
- 16 gauge wire.

BRANCH DEFLECTOR MOUNTS - FOR 2-1/2" LAMPS

- High impact plastic deflector mount.
- Design allows surface mounting of 2-1/2" lamps.
- Suitable for PC requirements on a 45° angle when using LED combination or Super 10 lamps.

PART NUMBER		DESCRIPTION
628312	TL10414	Gray Mount, Kit

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628357	TL30700	Grommet
628410	TL94902	Plug

MATERIAL:
- Polycarbonate mount.
- PVC grommet.
- 16 gauge wire.

MODEL 15 PRODUCTS - DEFLECTOR MOUNTS

- High impact plastic construction.
- Easy snap-on lamp installation.
- Standard 1" mounting holes.
- Permanently affixed hot & ground contacts.
- Suitable for PC requirements on a 45° angle with incandescent lamps.

PART NUMBER		DESCRIPTION
628328	TL15401	Mount, Kit

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628420	TL96904	Hot Wire

MATERIAL:
- ABS mount.
- 16 gauge wire.

MODEL 15 PRODUCTS - ADAPTER MOUNTS

- Stylish design for contemporary look.
- Sure contact, self-grounding feature.
- Suitable for PC requirements on a 45° angle with incandescent lamps.

PART NUMBER		DESCRIPTION
628329	TL15404	Gray, Kit

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628300	TL00790	Gray Mount

MATERIAL:
- ABS mount.
- 16 gauge wire.

MODEL 19 PRODUCTS - BASE MOUNTS

- Features unique plug-in design for ease of installation.
- Low profile extra strength base.
- Suitable for PC requirements on a 45° angle.

PART NUMBER		DESCRIPTION
628340	TL19721	Gray Mount & Hot Wire

MATERIAL:
- Gray polycarbonate.

MODEL 30 PRODUCTS - MOUNTING BRACKET

- Black epoxy painted heavy steel.
- Used for mounting Model 30 grommets.

PART NUMBER		DESCRIPTION
628363	TL30728	Bracket

MATERIAL:
- Heavy gauge steel.

G15

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MOUNTING ACCESSORIES

GROMMET MOUNTS - FOR 2” LAMPS

- Flush mounts 2” diameter lamps.
- Wide groove for panel thickness up to .250”.
- Suitable for PC requirements on a 45° angle when using LED or standard combination lamps.

PART NUMBER		DESCRIPTION
628353	TL30401	Open Back, Kit

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628357	TL30700	Grommet
628410	TL94902	Plug

MATERIAL:
- PVC grommet.
- 16 gauge wire.

DEFLECTOR MOUNTING GROMMET - FOR 2” LAMPS

- Allows quick & easy surface mounting of 2” diameter lamps.
- Not recommended for LED applications.

PART NUMBER		DESCRIPTION
628358	TL30701	Grommet

MATERIAL:
- PVC grommet.

MOUNTING GROMMETS - FOR 4”LAMPS

- Flush mount 4’ diameter lamps in a 4-1/2” hole.
- Designed to provide additional shock absorbency to extend lamp life.

PART NUMBER		DESCRIPTION
628376	TL40700	Black

RECOMMENDED HOLE SIZES for Accepting The TL40700 Grommet

PLATE THICKNESS	HOLE SIZE	PLATE THICKNESS	HOLE SIZE
1/16”	4.47”	1/4”	4.53”
1/8”	4.50”	3/8”	4.56”
3/16”	4.50”		

MATERIAL:
- PVC grommet.

STEEL MOUNTING BRACKETS - FOR 4” LAMPS

628377

628374

- Features black painted reinforced steel.
- Designed with 4-1/2” hole for mounting 4’ lamps.

PART NUMBER		DESCRIPTION
628377	TL40720	Flange
628374	TL40715	Double Flange

MATERIAL:
- Painted steel.

MODEL 60 PRODUCTS - GROMMET

- Flush mount 60 series lamps.
- Provides lamps with additional shock absorbency to extend lamp life.

MATERIAL:
- PVC grommet.

PART NUMBER		DESCRIPTION
628397	TL60700	Grommet

MODEL 60 PRODUCTS - MOUNTING BRACKET

- Features epoxy black painted steel.
- Designed for 60 series products with grommet & flange mounts.

MATERIAL:
- Stainless steel.

PART NUMBER		DESCRIPTION
628398	TL60720	Mount, Steel w/Flange

MODEL 45 PRODUCTS - GROMMET MOUNT

- Designed for flush mounting 45 series lamps.
- Standard grommet mounts in plate thickness of 1/8” to 3/8”.

MATERIAL:
- PVC grommet.
- Thermal plastic rubber (TPR).

PART NUMBER		DESCRIPTION
628499	TL45700	Grommet

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SOCKETS & PLUGS

IDENTIFICATION HARNESS

- For use with incandescent lamp identification bar.
- 16 gauge GPT wire.
- Tin plated brass terminals.

PART NUMBER		FUNCTION	LENGTH	TERMINATION	WIRE COLOR
628407	TL93906	1 Ground	22.5”	#10 Ring Terminal	White
	(6” ctr.)	2 M/C	26”	11/32” Wire Strip	Black
628408	TL93908	1 Ground	28”	#10 Ring Terminal	White
	(9” ctr.)	2 M/C	32”	11/32” Wire Strip	Black

MARKER CLEARANCE PLUGS

- For use in space limited areas.
- 16 gauge GPT wire.
- Tin plated brass terminals.

PART NUMBER		FUNCTION	LENGTH	TERMINATION	WIRE COLOR
628410	TL94902	1 Ground	7”	#6 Ground Terminal	White
		2 M/C	6.5”	6/32” Wire Strip	Black

RIGHT ANGLE MARKER CLEARANCE PLUGS

- Right angle design for use in space limited areas.
- 16 gauge GPT wire.
- Tin plated brass terminals.

PART NUMBER		FUNCTION	LENGTH	TERMINATION	WIRE COLOR
628412	TL94924	1 Ground	6.5”	#6 Ring Terminal	White
		2 M/C	6.5”	6/32” Wire Strip	Black

STOP, TURN and TAIL PLUGS

- For use with double contact sealed incandescent lamps.
- 16 gauge GPT wire.
- Tin plated brass terminals.

PART NUMBER		FUNCTION	LENGTH	TERMINATION	WIRE COLOR
628413	TL94926	1 Ground	11”	#10 Ring Terminal	White
		2 Tail	11”	6/32” Wire Strip	Black
		3 Stop/Turn	11”	6/32” Wire Strip	Red

RIGHT ANGLE STOP, TURN and TAIL PLUGS

- For use with double contact sealed incandescent lamps.
- 16 gauge GPT wire.
- Tin plated brass terminals.

PART NUMBER		FUNCTION	LENGTH	TERMINATION	WIRE COLOR
628416	TL94993	1 Ground	11”	#10 Ring Terminal	White
		2 Tail	11”	6/32” Wire Strip	Black
		3 Stop/Turn	10-3/4”	6/32” Wire Strip	Red

RIGHT ANGLE STOP and TURN PLUGS

- For use with single contact sealed incandescent stop/turn lamps.
- 16 gauge GPT wire.
- Tin plated brass terminals.

PART NUMBER		FUNCTION	LENGTH	TERMINATION	WIRE COLOR
628415	TL94992	1 Ground	10-1/2”	#10 Ring Terminal	White
		2 Stop/Turn	10-1/4”	6/32” Wire Strip	Red

LED FIT ‘N FORGET® MARKER CLEARANCE PLUGS

- Keeps water, salt & other corrosives from LED lamps.
- Combine with LED lamps for Lifetime Lighting Warranty eligibility.
- 16 gauge GPT wire; tin plated brass bullets/receptacles.

PART NUMBER		FUNCTION	LENGTH	TERMINATION	WIRE COLOR
628475	TL94862	1 Ground	4.5”	#6 Ring Terminal	White
		2 M/C	5”	.180 molded bullet	Black

LED FIT ‘N FORGET® MARKER CLEARANCE ADAPTER PLUG

- Keeps water, salt & other corrosives from LED lamps.
- Combine with LED lamps for Lifetime Lighting Warranty eligibility.
- Used to adapt LED lamps to conventional plug harness systems.
- 16 gauge GPT wire; tin plated brass bullets/receptacles.

PART NUMBER		FUNCTION	LENGTH	WIRE COLOR
628470	TL93745	1 Ground	4”	White
		2 M/C	4”	Black

LED FIT ‘N FORGET® STOP/TURN/TAIL ADAPTER PLUGS

- Keeps water, salt & other corrosives from LED lamps.
- Combine with LED lamps for Lifetime Lighting Warranty eligibility.
- 16 gauge GPT wire; tin plated brass bullets/receptacles.

PART NUMBER		FUNCTION	LENGTH	WIRE COLOR
628472	TL94706	1 Ground	8”	White
		2 tail	8”	Black
		3 Stop/Turn	8”	Red

LED FIT ‘N FORGET® STOP/TURN ADAPTER

- Keeps water, salt & other corrosives from LED lamps.
- Combine with LED lamps for Lifetime Lighting Warranty eligibility.
- Used to adapt LED lamps to conventional plug harness systems.
- 16 gauge GPT wire; tin plated brass bullets/receptacles.

PART NUMBER		FUNCTION	LENGTH	WIRE COLOR
628474	TL94789	1 Ground	8”	White
		2 Stop/Turn	8”	Red

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NYK CORROSION PREVENTIVE COMPOUND

Damage from external corrosives is among the leading causes of lamp and harness failure . Using this corrosion preventive compound, along with proper insulation, minimizes these occurrences.

Part No. 628490

- Specially formulated non-conductive sealant.
- Corrosion preventative for all types of electrical contacts, switches and junction boxes.
- Seals out dirt and moisture.
- 5 fl. oz. tube.

SERIES 50 - STOP, TURN, TAIL and SIDE MARKER HARNESS

PART NUMBER		DESCRIPTION	DIM.
628378	TL50208	R.H. S/T/T & Side Marker Harness	96"
628379	TL50209	L.H. S/T/T & Side Marker Harness	96"

SERIES 50 - HARDWARE KITS & REPLACEMENT PARTS

Junction Box & Components

- Fill pre-tapped holes in junction box when compression fittings are not used.

PART NUMBER		DESCRIPTION
628384	TL50830	Filler Plug

PART NUMBER		DESCRIPTION
628380	TL50400	Complete Unit

SERIES 50 - COMPRESSION FITTINGS

- For 2 conductor cable.

PART NUMBER		DESCRIPTION
628385	TL50840	3/8" I.D. Fitting

- For 6 & 7 conductor cable.

PART NUMBER		DESCRIPTION
628387	TL50842	3/4" I.D. Fitting

- For 4 & 5 conductor cable.

PART NUMBER		DESCRIPTION
628386	TL50841	1/2" I.D. Fitting

A 3-part fitting consisting of a pre-tapped cap, a threaded base & a black PVC grommet that is available with 6 different hole sizes to accommodate various conductor cables.

- For 3 conductor flat cable.

PART NUMBER		DESCRIPTION
628390	TL50846	Fitting

Pre-Tapped Cap

Black PVC Grommet

Threaded Base

DOCUMENT HOLDER

- Designed for ease of installation.
- Convenient insertion & removal of documents.
- Retaining spring staked to base for strength & durability.
- Smoked polycarbonate cover includes a permanently adhered gasket.
- Moisture resistant.

MATERIAL:
- ANS plastic mount.
- Polycarbonate cover.

PART NUMBER		DESCRIPTION
628423	TL97960	Document Holder, Kit

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628424	TL97962	Smoked Cover w/Gasket

DOCUMENT HOLDER

- New opaque gray cover protects documents from deteriorating.
- Designed for ease of installation.
- Convenient insertion & removal of documents.
- Retaining spring staked to base for strength & durability.
- Rubber gasket ensures moisture resistance.

PART NUMBER		DESCRIPTION
628456	TL97799	Document Holder, Kit

— REPLACEMENT PARTS —

PART NUMBER		DESCRIPTION
628457	TL97798	Solid Cover w/Gasket

BETTS CERTIFICATE HOLDER

- This paper safe features poly-carbonate shallow smoked lens with a stainless steel retainer spring.
- Mounting screws included.
- Surface mount.

PART NUMBER		DESCRIPTION
628812	820012	Valex body with spring

JUNCTION BOX

- Universal - 7 position.
- High impact plastic.
- Non-corrosive.

Part No. 638121

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VAL-U® TRUCK LIGHTS

4" LEXAN® SEALED LAMPS

STOP • TURN • TAIL

- Shock Safe construction.
- Hermetic lens-to-housing seal.
- Corrosion proof, grease filled terminals (3 pin).
- Extended life, double contact bulb.
- Accepts standard three prong and right angle OEM plugs.

PART NUMBER	LENS COLOR	LAMP ONLY	KIT*	INTERCHANGES WITH
638405	RED	●		Grote 52672, Truck Lite 40202R

*KIT INCLUDES GROMMET and PLUG

OVAL SEALED COMBINATION LAMP

STOP • TURN • TAIL

- Grease-filled plug-in, female terminals (3 pin).
- Shock Safe construction.
- Hermetic Lexan® lens-to-housing seal.
- Extended life, double contact bulb.
- Legal for horizontal or vertical mount.

Part No. 638415
COLOR: RED
Interchanges with:Grote 52892, Truck Lite 60202

2-1/2" SEALED LAMPS

CLEARANCE • MARKER

- Fits all popular grommet mounts.
- Hermetic lens-to-housing seal.
- Grease-filled plug-in, female terminals (2 pin).
- 15,000 hour bulb rating.

TWIST-ON FEATURE

SEALED LAMP

Part No. 638410
COLOR: RED

Part No. 638411
COLOR: AMBER
Interchanges with:
Grote 45812/3, Truck Lite 10202

with REFLECTOR LENS

Part No. 638412
COLOR: RED

Part No. 638413
COLOR: AMBER
Interchanges with:
Grote 45832/3, Truck Lite 10205

UNIVERSAL REPLACEMENT LAMP

STOP • TURN • TAIL

- Three wire rear pigtail connection.
- Lenses features dual optics.
- Three stud mounting: 1/4" – 20 x 7/8"L.
- Includes 1157 and 1156 bulbs.

Part No. 638470
COLOR: RED
Replaces:
Peterbilt 16-02600 R & L,
Chevrolet 370867 & 8
Jeep SF5457197 & 8

Interchanges with: Grote 50972

— REPLACEMENT LENS —

PART NUMBER	DESCRIPTION
638249	RED, Lens

RUBBER TRACTOR & UTILITY LAMP

- Shock Safe, weather-proof body.
- Contains #4411 (12V) PAR-36 bulb (Part No. 615311).
- Multi-purpose use–utility, fifth wheel, back-up, tractor, or off-road vehicle lamp.
- 5/16" dia. stud complete with hardware.

REPLACEMENT HOUSING IS NOW AVAILABLE

Rubber Housing
with Mounting Bracket

Part No. 638440

LAMP with BULB

Part No. 638445
Interchanges with:
Grote 64930, Truck Lite 80360

CLEARANCE • MARKER LAMPS

"DOUBLE BULLS-EYE"

- Corrosion resistant contacts.
- Contains two #1895 bulbs.
- Snap-on "scalloped dip" lens.
- Permamold base.

Part No. 638420
COLOR: RED

Part No. 638421
COLOR: AMBER
Interchanges with:
Grote 46792/3, Truck Lite 26302

CLEARANCE • MARKER LAMPS

OBLONG

- Snap-on lens, Permamold housing.
- Corrosion resistant contacts.
- Contains two 1895 bulbs.
- Two hole mount–holes 3" on center.

Part No. 638417
COLOR: RED
LENS ONLY: 638432

Part No. 638418
COLOR: AMBER
LENS ONLY: 638434
Interchanges with:
Grote 45432/3, Truck Lite 26301

REPLACEMENT LENS ARE NOW AVAILABLE

REPLACEMENT LENS

"DOUBLE BULLS-EYE"

- Fits 638420, 638421, 638425.

Part No. 638427
COLOR: RED

Part No. 638428
COLOR: AMBER
Interchanges with:
Grote 91962/3, Truck Lite 99053

CLEARANCE • MARKER LAMPS

THREE LAMP BAR

- Three 638420 "Bulls-Eye" lamps.
- Black enamel steel bar.
- Mounting holes 17-1/8" on center.

Part No. 638425
COLOR: RED
SIZE: 17-3/4" L x 2-1/4" W

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VAL-U® TRUCK LIGHTS

SERIES 1015 - LED CLEARANCE/MARKER LAMPS

- Designed at 14 volt, .060 amps.
- Operates in both polarities.
- Polycarbonate housing and lens.
- Sealed water tight construction.
- Protective encapsulation of electronics.

PART NUMBER	DESCRIPTION
638494	2.5" **RED** Round Clearance Side Marker
638495	2.5" **AMBER** Round Clearance Side Marker

SERIES 44 - 4" ROUND SEALED LED LAMPS

- Designed at 14 volt, .210/.090 amps.
- 10 Super Flux LED Diodes.
- Sonically sealed polycarbonate housing and lens.
- Industry standard connection and pin out.
- Circuitry protected against voltage surge and spikes.

PART NUMBER	DESCRIPTION
638496	4" **RED** Round Sealed LED Lamp
638497	4" **AMBER** Round Sealed LED Lamp
638503	4" **CLEAR** Back-Up

SERIES 64 - SEALED OVAL LED STOP/TAIL/TURN LAMPS

- Designed at 14 volt, .210/.090 amps.
- 10 Super Flux LED Diodes.
- Sonically sealed polycarbonate lens and housing.
- Industry standard connection and pin out.
- Circuitry protected against voltage surge and spikes.
- Vertical and horizontal mount.

PART NUMBER	DESCRIPTION
638498	**RED** Oval STop/Tail/Turn LED Lamp
638499	**AMBER** Oval LED Auxiliary Lamp
638501	**WHITE** Oval LED Auxiliary Lamp

STOP / TURN, TAIL and BACK-UP LAMPS

LEFT HAND
Part No. 638268

RIGHT HAND
Part No. 638269

- Stop/turn, tail and back-up.
- Reflex lens with ring optics.
- Three stud mounting.
- Impact resistant plastic housing.
- License illuminator.
- With side cover junction.

APPLICATIONS:

FORD
1991-85 F100/350 Pick-ups
1984 & 81 P350/500
1991-78 CL-CLT Series 900/9000
1991-80 C-CT-L-LN-LNT-TL-TLS 600/900 from Series HG 5,001
1991-80 B-F 600/800
(Replaces D9HZ-13405B)

CHEVROLET & GMC
1991-73 Medium and heavy duty trucks
(Replaces 795058, 2063933)

FREIGHTLINER
1989-81 All
(Replaces A06-13581-001)

IH/NAVISTAR
1989-72 All medium and heavy duty
(Replaces 467708-C91, 424539-C91, 590158-C91)

MERCEDES BENZ
1989-78 All
(Replaces 344-544-74-03)

VOLVO/WHITE
1989-77 F613

STOP / TURN, TAIL and BACK-UP LAMPS

LEFT HAND
Part No. 638240

RIGHT HAND
Part No. 638241

W/DUAL LEFT & RIGHT METRI PACK CONNECTOR
Part No. 638255

- Metri-pack connector.
- Replacement for GM, Freightliner, Oshkosh and Peterbilt.
- Three stud mounting.
- License light.

REPLACEMENT PIGTAIL for Metri Pack - **Part No. 638250**

REPLACEMENT LENS for Above Numbers - **Part No. 638249**

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REFLECTORS

SPITFIRE™ WIDE ANGLE REFLECTORS

- Hermetically sealed and unbreakable.
- Mounts on flat or curved surfaces.
- Industrial-strength adhesive.
- Easy to install and stays in place.
- 50% wider angle of reflectivity compared to conventional reflectors.
- 47,000 microprisms per square inch provides superior candlepower.
- Molded reflector - not tape or plastic reflector.
- Ultra-thin design, only .012 inches thick.
- Exceeds D.O.T. specifications.

PART NUMBER	DESCRIPTION	SIZE	COLOR	
638488	Rectangular	2-3/4" x 1-3/4"	AMBER	25
638489	Rectangular	2-3/4" x 1-3/4"	RED	25
638491	Round	2-7/8"	AMBER	25
638490	Round	2-7/8"	RED	25

ROUND QUICK MOUNT - ACRYLIC LENS

- Adhesive backing permanently mounts reflector to any clean, flat surface.

PART NUMBER	DESCRIPTION	SIZE	COLOR	
638474	Round	3"	AMBER	25
638475	Round	3"	RED	25
638483	Round	2"	AMBER	25
638482	Round	2"	RED	25

CENTER MOUNT - 3-3/16" HERMETICALLY SEALED REFLECTORS

- Mounts with a single screw through center hole.

Part No. 638477 25
COLOR: AMBER

Part No. 638476 25
COLOR: RED

OBLONG QUICK MOUNT - 4-3/8" x 1-7/8" ACRYLIC LENS

- Adhesive backing permanently mounts reflector to any clean, flat surface.

Part No. 638481 25
COLOR: AMBER

Part No. 638480 25
COLOR: RED

ALUMINUM OVAL - 3" ACRYLIC LENS

- Low-profile aluminum housing.
- Completely rustproof.

Part No. 638472 25
COLOR: RED

COMPACT RECTANGULAR REFLECTOR

- 4-3/8" x 1-1/8" acrylic reflector features both adhesive backing and mounting holes for many narrow applications.

Part No. 638486 25
COLOR: AMBER

Part No. 638487 25
COLOR: RED

REFLECTIVE MARKING (CONSPICUITY TAPES)

3M™ Scotchlite™ 981 Series Diamond Grade Conspicuity Sheeting

- Designed to mark the side and rear perimeter of trucks and trailers for enhanced visibility and detection.
- This highly retro-reflective sheeting consists of prismatic lenses formed in a durable, transparent resin.
- The lenses are sealed with a white synthetic film backed with an aggressive pressure-sensitive adhesive covered with a blue liner to protect the adhesive.
- 100% plastic, non-corrosive and edge sealed.
- Excellent angularity, which allows it to be seen at angles well beyond 45° from perpendicular - in fact, reflectivity approaches 90° from perpendicular. This feature is important in cross traffic, turning maneuvers and when parked along roadways.
- Guaranteed to meet NHTSA's minimum specifications of 250 candlepower 0.2-4 for seven years.
- DOT-C2 certified and DOT-C2 is printed on all products.

PROPERTIES:
- **Adhesive:** pressure-sensitive
- **Minimum application temperature:** 60°F (15°C) (sheeting & substrate)
- **Maximum application temperature:** 100°F (30°C) (sheeting & substrate)
- **Liner:** blue poly

PART NUMBER	DESCRIPTION	SIZE	QTY
638633	11" Red / 7" White Alternating	2" x 150' Roll	1
638635	11" Red / 7" White	2" x 18" Strips	25
638639	Pre-cut every 12" All White	2" x 150' Roll	1

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FLEET ACCESSORIES

GM LICENSE PLATE LAMP

Part No. 638505

- Fits pick-ups, vans & Suburban models 1992-78 with step bumper.
- Exact OE duplicate - chrome face plate.
- Weather-proof construction.
- Shielded male snap plug connector.
- Replaceable No. 67 (615161) bulb.
- Mounting holes: 2-5/8" c-c (screws included).
- Replaces: GM-914086.

UNIVERSAL BRACKET

Part No. 638192

- Universal license plate bracket.
- Painted black steel.
- Fits lamps with two or three studs on 2" centers.

BACK-UP ALARM ACTIVATING SWITCH

- 360° Designed for easy installation. Actuated by gear shift linkage when vehicle is shifted into reverse.
- Switch is rated for Nema 1 and when installed properly is water and dust resistant.
- 15 AMP rated and may be actuated from a full 360° direction.
- Switches to be mounted on flat rigid surface.
- Basic switch is UL and CSA approved.

Part No. 618393

LICENSE PLATE LAMPS / BRACKETS

DIMENSIONS: Series 437-00: 10-15/16" L. x 4-5/8" H. x 2-3/16" D. Two 1/4" mounting holes on 2-1/2" centers.
MATERIAL: Steel body and base. Zinc plated steel socket, acrylic lens, stainless steel and nylon pigtail, stainless steel screws and rubber gasket.
FINISH: Black
FEATURES: The universally accepted standard of quality in license lamps, custom designed optics achieve highest license plate illumination.

PART NUMBER	DESCRIPTION
628025	**CLEAR**, Black Finish,
437-00-132	License Lamp w/Bracket
628026	License Lamp Only

G15

EVACUATOR®

HEAVY DUTY, ELECTRONIC BACK-UP ALARMS

For commercial, industrial and construction vehicles and equipment. Alerts workers, ground crews, bystanders and other vehicle operators with a loud warning whenever equipment is backing up.

- Piezo-electric circuity eliminates heavy magnetic coils and speakers for extra vibration resistance.
- Shock-resistant acrylic housing keeps weather and dirt out. Impervious to damage.
- Mounts in minutes - only 4 bolts or screws.
- Solid state reliability. Less than 0.1 amp current drain.
- Diameter is 2-3/8", depth is 1-11/16".

EVACUATOR® 107DB

Best for noisy construction sites or beside a traffic filled freeway. Recommended for forklift trucks, dump trucks, heavy vehicles, loaders, cranes, backhoes, snowplows, sanitation trucks, fire trucks.

PART NUMBER	DC VOLTS	DECIBEL OUTPUT
618402	12-48	107DB

EVACUATOR® 112DB

Loudest available. For open pit mines, road construction, extremely noisy plants. Use on crawlers, earth moving equipment, bulldozers, mining equipment, airport pads.

PART NUMBER	DC VOLTS	DECIBEL OUTPUT
618403	12-48	112DB

All Evacuator® Models are designed to meet the following requirements:

1. SAE Recommended Practice J994 Sep. 80.
2. OSHA Paragraph 1910.12 Construction Work; Paragraph 1926.601 Motor Vehicles; Paragraph 1926.602 Material Handling Equipment; Paragraph 1926.952 Motor Vehicles.

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FLEET ACCESSORIES

LIGHT DUTY ELECTRONIC SOLID STATE ALTERNATING ALARM

SAE J944b Class C - Conforms to State, Federal, OSHA, Bureau of Mines, US Army Corp of Engineers Requirements.

The alternating type alarm features sealed solid state electronics.

- **Rugged fiberglass reinforced nylon housing.**
- **Integral universal mounting bracket.**
- **Compact size.**
- **Field proven electronics and speaker.**
- **Full two year limited warranty.**
- **Operates over a 12-24 volt range.**
- **Operates over a temperature range of -40° to +85°C.**

Recommended for low to medium noise environments for use on trucks, buses, delivery vans, lift trucks and other light duty vehicles.

Part No. 618410

PART NUMBER	DESCRIPTION	FINISH	DIMENSIONS (L x W x H)	FREQUENCY (Hz)	DB RATING @ 4'-0"	BEEP RATING (Per Min.)	POWER SOURCE (Volts)	CURRENT DRAW (AMPS)
618410	Light duty - solid state	black reinforced nylon	4 x 1-5/8 x 2-5/8	1250	97	60	12/24V	.6

BACK-UP ALARM®

The Tail-Gator® has set the quality standard for more than 25 years.

Satisfied customers have made it the best-selling alarm in the industry.

- **Single sound level.**
- **12 volt systems.**
- **97 decibels.**
- **SAE J994 Type C.**
- **Weight: 12 oz. (454g)**

Part No. 618050

ALARMS (SELF-ADJUSTING)

- **Self-adjusting alarm automatically adjust to 10 decibels above the surrounding noise, thus reducing irritation for operators & workers.**
- **Versatile and compact universal mounting.**
- **This alarm has #8-32 UNC terminal studs.**
- **Used by major OEM's.**
- **Weight: 1 lb. 8 oz. (681g)**
- **97-112 decibels.**
- **12-24 volt systems.**

Part No. 618045

HEAVY DUTY BACK-UP ALARM

- **Safety needs demand durability and versatility.**
- **The 60-102 Heavy Duty die-cast Back-up Alarm answers all your needs with its convenient compact size, rugged housing and decibel rating.**
- **Our most popular alarm serves on emergency and maintenance vehicles, construction equipment, trucks, buses, firetrucks, lift trucks and utility vehicles.**
- **Long-term reliability.**

Type:	Electronic
Width:	4-1/2" (115mm)
Depth:	2" (50mm)
Height:	3" (76mm)
Voltage:	12 through 36V DC
Amps:	Less than 1/2A
Sound Level:	102dbA ±4dbA
Beep Rate:	Approx. 60 per minute
Housing:	Heavy-duty die-cast

MADE IN USA

Part No. 628290
STAR60-102

SMART ALARMS® BACK-UP ALARMS

Our Smart Alarms® are the world's first self-adjusting back-up alarms. These alarms constantly measure ambient noise and adjust their sound level, creating a volume that is safe without being annoying. Smart Alarms® eliminate the need for constant manual adjustment and prevent intentional alarm disconnection.

- **Automatically adjusts maintaining a minimum of five dB(A) above noise level up to a maximum rated output.**
- **Epoxy sealed against dust, moisture and vibration.**
- **Ends confusion on which alarm to choose.**
- **Reduces irritation and excessive noise complaints.**
- **Temperature range: -40°F to +185°F (-40°C to +85°C).**

Part No. 618091
SA914

- **Integral bracket includes same mounting pattern popular with OEM's.**
- **Steel housing and construction for rugged applications.**
- **Meets SAE J994.**

Voltage: 12 through 24V DC **SAE type:** A-D
Decibels: 87-112 **Amps:** 0.4

Part No. 618090
SA901

- **Compact and rugged design for medium noise environment.**
- **Steel housing and rugged construction for demanding applications.**

Voltage: 12 through 24V DC **SAE type:** B-D
Decibels: 82-107 **Amps:** 0.3

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FLEET ACCESSORIES

BACK-UP ALARM - 112 dB(A)

Part No. **618087**
876

- Integral bracket includes same mounting pattern popular with OEM's.
- Reverse mounted speaker enhances sound and protects speaker for longer life.
- Steel housing and construction for rugged applications.
- Meets SAE J994.

Voltage: 12 through 36V DC
Decibels: 112
SAE type: A
Amps: 0.4

STROBE LIGHTS

Part No. **628277**
STAR200SD

- Heavy duty and dependable.
- AMBER lens.
- All factory default setting to quad flash, Reprogrammable to single or double flash.
- Made for long life trouble free use.
- Die-cast base is threaded to accept 1/2" pipe mount and includes knockouts for permanent bolt mounting.
- 6" height / 5-1/2" dia.
- Order 628278 - STAR200SDM for magnetic mount.

MADE IN USA

REPLACEMENT STROBE TUBE
Part No. 638129

HIGH PROFILE STROBE LIGHTS

Part No. **628288**
STAR250CDH

- Doubleflash High-power.
- HIGH-POWERED, high visibility.
- Easy to mount (NO disassembly needed).
- Permanently mounts 2 holes on 6-7/8" centers.
- Anodized spun aluminum case.
- Rugged die-cast base plate.
- AMBER lens.
- 8" high.
- 5-1/2" dia.
- Order 628284 - STAR250CDHM for magnetic mount.

REPLACEMENT STROBE TUBE for High Powered Series **- Part No. 638130**

G15

LOW PROFILE with DIE-CAST BASE STROBE LIGHT

Part No. **628280**
STAR200Z

- Ideal for construction, forklift or other applications.
- Only 4-1/8" tall (very low profile) x 4-1/8" dia.
- Aluminum retaining ring clamps polycarbonate lens to base.
- Rugged die-cast base.
- Fits almost anywhere!
- 4-1/8" dia.
- Factory set to quad flash.
- Lens Color: AMBER.
- Voltage: 12.
- Mounting: Base threaded for 1/2" pipe mount and knockouts for permanent bolt mounting)

REPLACEMENT STROBE TUBE for Single Flash 200Z & 211RM Series **- Part No. 638131**

MEDIUM PROFILE STROBE LIGHT

Part No. **628289**
STAR250SDH

- HIGH POWERED, Double Flash.
- Easy to mount flange base. (NO disassembly needed)
- Permanently mounts at 2 holes on 6-7/8" centers.
- Anodized spun aluminum case.
- Rugged die-cast base plate.
- AMBER lens.
- 6-1/8" high x 5-1/2" dia.

REPLACEMENT STROBE TUBE
Part No. 638130

LOW PROFILE STROBE LIGHT

- Molded rubber base to absorb shock and prevent corrosion.
- 3 joules.
- 4-1/16" high.
- 5-3/4" dia.

Part No. **628285** STAR211RM

- Low profile, singleflash and magnetic mount*.
- Lens color: AMBER.
- Voltage: 12, 24V DC
- Mounting: Magnetic - with lighter plug.

**Has a coated magnet to help avoid scratches.*

REPLACEMENT STROBE TUBE for Single Flash 200Z & 211RM Series **- Part No. 638131**

360° LED MINI STROBE

- Ideal for utility, construction, security, snow & maintenance applications.
- Features five user selecteble flash patterns.
- Meets SAE J1318 Class III.
- 12-48 volt DC, .173 amp.
- Waterproof.

MATERIAL:
- Polycarbonate lens.
- Black cast aluminum housing.
- 18 gauge wire.

LIGHT SOURCE:
- Light emitting diodes (LEDs)

PART NUMBER		DESCRIPTION
628492	92688Y	Yellow, permanent mount

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FLEET ACCESSORIES

HIGH PROFILE HIGH INTENSITY STROBE LIGHT

The newest 360° strobe - our patented *i.beam™* LED monitors circuit board and flash tube performance on each flash cycle.

- **Consistent flash intensity and flashes per minute during voltage or temperature changes.**
- **Thread-on lens and snap-fit flash tube allows change of flash tube without any tools.**
- **Voltage spoke and surge protected.**
- **Seven support points provide a shock-resistant mounting of the power supply.**
- **Conformal coated circuit board prevents corrosion.**
- **Rugged die cast aluminum base is coated against corrosion and designed for vibration resistance and heat dissipation.**
- **Warranty: 2 year / 6 month (flashtube).**
- **Temperature range: -22° F to +122°F (-30°C to +50°C)**

Part No. 628299 6990X

- **Flange and 1" pipe mounting.**
- **AMECA certified to SAE J1318.**
- **8" height.**
- **6-1/2" dia.**

Voltage:	12 through 24V DC	**Amps:**	2.9
Joules:	15 Dbl / 20 Quad	**Mount:**	2 types
FPM:	80 Dbl / 65 Quad		

MEDIUM PROFILE STROBE LIGHT

- **Thread-on lens allows toolless change of flash tube.**
- **Reverse polarity, voltage spike and surge protected.**
- **Epoxy-filled base for power supply protection.**
- **Warranty: 5 year / 6 month (flashtube)**
- **Temperature range: -22°F to +122°F (-30°C to +50°C).**

Part No. 628292 6220X

- **Tested in accordance with UL583 safety standard.**
- **Can be used in Type E, ES and EE industrial trucks.**
- **5.5" height.**
- **2.8" x 3.4" dia.**

Voltage:	12 through 80V DC	**Amps:**	0.3
Joules:	1.5 Sgl	**Mount:**	2-Hole
FPM:	85 Sgl		

RUBBER HOUSING ONLY

With vertical and horizontal mounting bracket

For PAR46 Style Seal Beams 4413, H7609, etc.
- **5-3/4" (146mm) dia.**
- **1/2"-13 x 1-1/2" bolt mounting.**

Part No. 638630

SEALED BEAM FLOOD WORK LAMP

- **Clear, aluminum body with 20 amp toggle switch.**
- **PAR36 sealed beam lamp with adjustable pedestal mount and heavy duty 9/16" stud.**
- **Uses retaining ring and clear (flood) 4466.**
- **Mounting hardware included.**
- **Provided with 18" of BSXL abrasion resistant wire.**

Part No. 628805

UNIVERSAL SNOW PLOW/ATL LIGHTS

- **High impact polycarbonate & steel construction.**
- **Features high beam/low beam halogen headlamps & integrated park/turn lamps.**
- **Lamp functions as snowplow light, all terrain light, or off road/auxiliary light.**
- **Mounts on one 1/2"-13 stud.**
- **Kit also includes a switch, a grommet that protects wiring at the switch, and a heavy-duty flasher.**
- **One-piece harness runs from switch to the front of the vehicle & attaches with Scotchlock™ connectors.**

Material
- Polycarbonate park/turn lenses & housing.
- Steel bracket.
- 16 gauge wire.

Light Source
- Bulb #08004, glass sealed beam.
- Designed at 12.8v, 3.52 amp (low) and 5.08 amp (high).
- Bulb #1157, S-8 DC bayonet.
- Designed at 12.8v/14v, 2.10/.59 amp.

Universal Kit Components:
Part No. 628800
(1) 80810 LH lamp
(1) 80820 RH lamp
(1) 80830 main harness
(1) 80840 hardware set

Part No. 628800

G15

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FLEET ACCESSORIES and TRAILER WIRE CONNECTORS

EPHA® HOSE PROTECTORS

Prevents 90% of hose, line, or cable failures due to wear at points of contact with frame, etc.

Available in 3 sizes! cable ties included

EASY INSTALLATION IN MINUTES! No need to remove hose

SIZES (INCHES) LENGTH x WIDTH	COLORS BLACK PART NO.	ORANGE PART NO.	YELLOW PART NO.	QTY
4 x 2-1/2	618425	618426	618427	10
6 x 3	618428	618429	618430	10
8 x 3-1/2	618431	618432	618433	10

These are wear shield products and are not suitable as patches or repairs for hoses, cables, lines, etc. that are already worn beyond safe use standards.

ABRASION PROTECTION FOR

- Hydraulic hoses.
- Wiring harness.
- Fuel lines.
- Radiator hoses.
- Battery cables.
- Brake systems.
- Air lines.
- Oil lines.

MARKET APPLICATIONS

- Farming.
- Trucking.
- Construction.
- Public transportation.
- Waste management.
- Industrial.
- Mining.
- Aviation support.
- Road maintenance.
- Original equip. manuf.

UNIQUE FEATURES

- Extremely high wear factor.
- Formulated to resist solvents, oils, grease, gasoline, etc.
- 3 grooves protect cable ties and prevent slipping.
- Operating temperatures range -40° to 430°F.
- Exceptionally cost effective.
- Made of space age plastic - 4 times greater wear than an automotive tire.

(Black) Part No. 501653

(Orange) Part No. 501654

(Yellow) Part No. 501655

3 sizes • 4 items • 120 pieces
12051 steel tray
(Includes cable ties)

TRAILER WIRE CONNECTORS

Conforms to all T.T.M.A., A.T.A., and S.A.E. industry standards

Sockets with exposed screw terminals

Part No. 618303 - 7 pole

- Solid contact pins.
- Replaceable interior.
- Mounts thru 2" dia. hole.
- Flange holes 21/63" dia.,2-15/16" on centers.

Sockets with exposed screw terminals

Part No. 618306 - 6 pole

- Split contact pins.
- Replaceable interior.
- Mounts thru 1-3/8" dia. hole.
- Flange holes 17/64" dia., 2-15/16" on centers.

Part No. 618307 - 6 pole
Part No. 618311 - 4 pole

- Recommended for flat bed trailers.
- Special housing design protects connections from road dirt, splash, etc.
- Flange holes 17/64" dia., 2-15/16" on centers.

PROTECTIVE BOOT FOR 7 POLE SOCKETS

Part No. 618319 3

- Protects against road splash, dirt, etc.
- Inner ridge locks over head of terminal screws and edge of casting to hold securely.

Part No. 618304 - 7 pole
Part No. 618308 - 6 pole
Part No. 618312 - 4 pole

- Connector plug with cable protector.
- Integral cable clamp.
- Winged grip makes removal/insertion easy.
- Replaceable interior.

Part No. 618305 - 7 pole
Part No. 618309 - 6 pole

- Connector plug is the same as 618304, 308, 312 but without cable protector.

BLADE TYPE SOCKET/PLUG

Part No. 638283 - 7 blade socket - vehicle end
Part No. 638284 - 7 blade plug - trailer end

- Incorporates vinyl inserts to keep out dirt and moisture.
- Interior design prevents internal short-circuiting; safety latch prevents damage from accidental pull-away.
- Color coded to RVI standards; interchangeable with other well known RV types.

UNIVERSAL LINE CONNECTORS

Part No. 618328 - 2 pole, flat, pair
Part No. 618370 - 4 pole, flat, pair
Part No. 618405 - 4 pole, male plug only
Part No. 618407 - 4 pole, female plug only

- 6" long 16 gauge wire leads.
- Polarized.
- Molded weather proof bodies.
- Manufacture and tested to rigid standards to assure trouble-free performance and long life.

WIRING KITS

Part No. 618373 - 4 pole

- Flat.
- Includes all the features of the connectors, as well as self-insulating wire connectors. Male ends has 12" of wire, the female 48".
- Manufactured and tested to rigid standards to assure trouble-free performance and long life.

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TRAILER WIRE CONNECTORS and PLUG CLEANER

TRAILER TAILLITE CONVERTER

For safer trial lighting with federal and state regulations.

Trailer Taillite Converter permits any towing vehicle having separate bulbs for stop (red lens) and turn signals (amber or red lens) on each side to operate lights on a trailer that has a single bulb (red lens) on each side combining the stop and turn.

Part No. 618322

IMPORTANT: *All state laws require stop lights, turn signals and taillights on trailers.* When the dissimilar taillight systems of the towing vehicle and trailer are connected without a converter, only one trailer lighting function (stop or turn signal, but not both) will operate. The converter must be use to provide all required light functions on the trailer.

- **Eliminates need for rewiring or installation of additional lights on rear of trailer.**
- **Solid state circuity embedded in insulation for protection against moisture and vibration.**
- **Color coded wire leads – 24" long for vehicle light connections; 36" long for attaching to trailer connector.**
- **Includes self-splicing, insulated wire connectors for fast, easy installation.**
- **Operation for converter and trailer lights not affected by burned out bulbs in towing vehicles.**
- **Can be left connected to towing vehicle when not towing trailer.**
- **For 12 V.D.C (negative ground systems only).**
- **Self-adhesive backing permits quick and secure mounting inside of trunk, on fender wall, or on any convenient surface.**
- **Overall size: 1-23/32" x 2-7/32" x 11/16"**
- **Suggested wiring and installation instructions included.**

FLAT MALE 4-PRONG CONNECTOR

Part No. 618405

- **16 gauge color coded leads.**
- **Polarized to fit all brands.**

PLUG CLEANER

Part No. 618395 - 7 - Way

- **Extend life of connectors.**
- **Stainless steel brushes – cleans corroded contact in seconds.**

- **T-shaped handle – comfortable & easy to use.**
- **Tough plastic body.**
- **Snap-on protective cover.**

7 – WAY CIRCUIT CHECKERS

PIN TYPE

Tests all 12V neg./pos. ground wiring systems.

CHECKS:
- **Stop lights.**
- **Left, right turn signals.**
- **Tail lights.**
- **Clearance lights.**
- **Auxiliary.**

INDICATES:
- **Shorts between wires.**
- **Shorts to the ground.**
- **Open ground wire.**
- **Cross wiring.**
- **Open wires.**

TOP

BOTTOM

Part No. 618397

BLADE TYPE

LED indicators quickly identify complete circuits by glowing red; no light means problem circuit.

- **Fits standard seven-way blade type.**
- **Constructed of molded PVC for impact resistance.**
- **Internally grounded.**

Part No. 618320

G15

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TRUCK HARDWARE and CONTROL CABLES

FLEXIBLE HOLD-DOWN LATCH

Used to hold-down truck hoods, battery boxes, tool boxes, hatch covers, lids and doors.

- Made of synthetic rubber, resistant to weather, oils, chemicals & dirt.
- Complete with zinc plated steel brackets.
- Designed for vertical or horizontal mounting.

Part No. 418201
4-1/2" size

Part No. 418202
2-1/8" size

STEEL HOOD LATCHES & BRACKETS

Used on; trucks, off-road, farm and industrial equipment, Jeeps, and recreation vehicles. Particularly adaptable to use on air compressor and engine compartment covers.

- Latches & brackets are constructed of high quality steel.
- Black enamel finish.

Horizontal mount
Part No.
418203

90° vertical mount
Part No.
418204

Hooking bracket
Part No.
418205 3

DOOR HOLDER HOOK and KEEPER ASSEMBLIES

- Heavy gauge steel.
- Zinc plated.

PART NUMBER	DESCRIPTION
418209	6" Hook and keeper assembly

FLUORESCENT ORANGE GUIDE KITS

BOLT-ON EASE

Used on: snow plows, cement trucks & construction equipment.

PART NUMBER	DESCRIPTION
418420	Blade Guide Kit, 3/4" x 28"
418424	Blade Guide Kit, 3/4" x 36"

CONTROL CABLES "T"-HANDLE

Used for: choke, throttle, hood locks, air vents, dampers, heater and water valves, shutter control, hydraulic valves, farm equipment, power and yard equipment and marine.

– LOCKING –

LENGTH (FEET)	PART NUMBER	THREAD HOUSING
6	**421138**	7/16-20
8	**421145**	7/16-20

– NON-LOCKING –

LENGTH (FEET)	PART NUMBER	THREAD HOUSING
7	**421144**	3/8-24

PTO

Used for: power take-off on trucks, farm construction and other mobile equipment.

LENGTH (FEET)	PART NUMBER	THREAD HOUSING
10	**421148**	7/16-20

VERNIER

Used to set and maintain throttle settings. Allows quick and precise adjustment of engine RPM's.

LENGTH (FEET)	PART NUMBER	THREAD HOUSING
10	**421149**	3/4-16

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AIR BRAKE PARTS and TRUCK/FLEET

AIR TANK DRAIN VALVE

- 68" cable attaches.
- Brass construction.

PART NUMBER	WEATHERHEAD	PIPE THREAD SIZE
508299	1421	1/4"

AIR HOSE SEPARATOR

- Heavy duty plastic.

HOSE SIZE	PART NUMBER	QTY
3/8	**618388**	5
1/2	**618389**	5

UNIVERSAL GLADHAND

- Die-cast aluminum body.
- Conforms to SAE J318.
- Connects to 1/2" pipe.
- Includes taper design seal.

Part No. **418127** (4)

HOSE SUPPORT CLAMPS

FOR 3/8" I.D AIR BRAKE HOSE

- Durable black molded plastic.
- Complete with plated eye bolts and nuts.
- Does not reduce diameter of hose.

PART NUMBER	DESCRIPTION	QTY
618381	Holds two air hoses and one electrical cable.	2

GLADHAND SEALS

– RUBBER –

Advanced rubber compound assures best sealing.

TAPER DESIGN

Part No. **418126** 12

PROTECTO-O-SEAL DESIGN

- Protect gladhands against dirt and insects.

Part No. **418142** 10

– POLYURETHANE –

- Will not crack, tear, or dry out.
- Outlasts rubber seals.
- Reduces downtime.
- Reverse taper eliminates air leaks.
- Color coded – red for emergency, blue for service.
- D.O.T. compliance.

PART NUMBER	COLOR	QTY
418143	Red	4
418144	Blue	4

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LUBRICATION TOOLS

OIL FILTER PLIERS

- Pliers specially designed for removal of screw-on filters.
- Allows easy access to filters and provides a secure grip with powerful leverage.
- Breaks loose the most stubborn filters.
- 114392 is specially designed for use on late model 4 and 6 cylinder domestic & import engines. Its shorter size allows it to work in closer quarters.

PART NUMBER	DESCRIPTION	OVERALL LENGTH (INCHES)
114391	Oil Filter Pliers, ranges from 3-1/8 to 3-5/8 / 80 mm to 92 mm	11-5/8
114392	Oil Filter Pliers, ranges from 2-1/2 to 3-1/8 / 65 mm to 80 mm	10-1/8

OIL FILTER PLIERS WITH SLIP JOINT HANDLE

- Two position slip joint handle covers the range of three separate conventional filter wrenches.
- Also works on fuel filters and radiator caps.
- Sure grip teeth prevent slippage.
- Cushioned handles.
- One size for cars, one for trucks.

Part No. 114422 - 2-1/4" to 4"
Part No. 114424 - 3-5/8" to 6"

HOOD HOLDER

Holds hood, door or trunk lid open during repair, replacement or body work.

Telescoping Column
Trigger Guard
Trigger Lock
Large Column

WARNING!
Not for use as heavy duty supporter: 50 pounds maximum.

Closed Length: 28"
Extends to: 46"

Part No. 113896

"SWIVEL GRIP" OIL FILTER WRENCHES

11387	**Size Range:** 3-1/2" to 3-7/8" / Handle: Red
11388	**Size Range:** 2-7/8" to 3-1/4" / Handle: Black
213650	**Size Range:** 4-5/16" to 4-3/4" / Handle: Black Fits Cummins and Detroit diesel engines
213651	**Size Range:** 5-1/4" to 5-3/4" / Handle: Red Fits Caterpillar engines
11396	**Size Range:** 4-1/8" to 4-1/2" / Handle: Red Fits Cummins diesel on Dodge trucks

- Handle swivels to clear frame & exhaust obstructions.
- Durable 1" wide stainless steel band.
- Vinyl covered handle provides a firm, comfortable grip.
- Swivel handle makes it easy to reach & turn filters even in hard-to-reach locations.

Fits most late model GM & most Imports using 3" filter.

"BIG RANGE" FILTER WRENCH

Removes any filter up to 6"

Adjusts quickly to fit any spin-on oil filter up to 6" in diameter. Use with 1/2" square drive wrench. Strong nylon belt will not slip.

Part No. 113548

ADJUSTABLE OIL FILTER WRENCH

For trucks and tractors. Fits John Deere, Case, Caterpillar, Mack, Detroit Diesel and Others.

Tough, stainless steel band with special "teeth" for extra gripping power... won't slip. Professional quality. Works with 1/2" square drive.

RANGE: 4-3/8" to 5-5/8"

Part No. 113549

IMPORT & WIDE RANGE CAR FILTER WRENCHES

- Steel jaws grip filter without slipping.
- Works in tight spots using a 3/8" drive.

PART NUMBER	DESCRIPTION
213464	IMPORT CAR FILTER WRENCH Ranges from 2-1/2" to 2-3/8" / 63mm to 79mm Fits the 2-1/2" Toyota filter, plus the common 3" domestic filter
214160	WIDE RANGE FILTER WRENCH Ranges from 3-1/8" to 3-7/8" / 79mm to 98mm
63630	REPLACEMENT SPRING - For both wrenches.

"LOW-PROFILE" 3-PRONG CLAW

- Low profile (2-1/2" high) shape provides high torque in tight areas.
- Use 3/8" drive ratchet or 3/4" wrench.
- Fractional size 2-7/16" to 4-3/4".
- Metric size 63 to 121mm.

Part No. 114355

"THE CLAW" (3 pronged oil filter wrench)

- Just one wrench does it all.
- Range: 65mm-120mm.
- Your best bet for those "impossible to remove" filters.
- 1/2" drive.

Part No. 114300

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LUBRICATION TOOLS

LOW PROFILE OIL FILTER SOCKET KITS

33% lower than the conventional sockets.

MAKES REMOVAL OF FILTERS IN TIGHT AREAS EASY!

- **13 close-fitting sockets, 14, 15 or 36 flats, have grip-tight hold for positive removal without crushing or slipping.**
- **All the sockets can be used with regular 3/8'' drive ratchet, wrenches & extensions.**

Sockets can be ordered separately or in kits. - USERS GUIDE INCLUDED

PART NUMBER	I.D. NO. STAMPED ON SOCKET	DESCRIPTION	IMPORT KIT 114001	DOMESTIC KIT 114002	MASTER KIT 114003
SOCKETS					
114376	C17001	14 FLATS 75mm	X	X	X
114377	C17002	15 FLATS 75/77mm	X	X	X
114378	C17003	15 FLATS 75/79mm	X	X	X
114379	C17004	15 FLATS 93mm	X	X	X
114380	C17005	15 FLATS 84mm	X		X
114382	C17007	36 FLATS 76mm		X	X
114383	C17008	36 FLATS 93mm		X	X
114384	C17009	14 FLATS 65mm	X		X
114385	C17050	14 FLATS 73mm	X		X
114386	C17070	14 FLATS 68mm	X		X

LOW PROFILE OIL FILTER SOCKETS

- **33% lower than conventional socket.**
- **Makes removal of filters in tight areas easier.**
- **See page 4 for complete line.**

Part No. 114386 **ID # C17070**
14 FLATS, 68MM
Fits: Mazda Jeyo-14302 and Feyo-14302, Late Model 626, 929, MPV, MX-6, B2000, B2200, B2600i
Fits: 1990-89 Ford Probe & Mercury Tracer Part No. FL816
Fits: Subaru Justy Part No. 15208KA010

Part No. 114387 **ID # C17080**
15 FLATS, 82MM
Fits: WIX and Valvoline branded import filters for Mazda, Subaru, Toyota, Honda, Acura, Nissan, Mitsubishi, Isuzu, Geo and Ford Festiva.
WIX Part No.'s: 51064, 51334, 51338, 51344, 51346, 51361, 51568 and 51625
Fits: NAPA Part No.'s: 1064, 1334, 1338, 1344, 1346, 1361, 1568 and 1625
Fits Big A Filters No.'s: 92064, 92334, 92338, 92344, 92346, 92361, 92568 and 92625

Part No. 114389 **ID # C17040**
TWO STEP
Bottom Step **14 flats, 67mm**
Top Step **14 flats, 65mm**
Bottom Step (67mm)
Fits: Fram part nos. PH4386, PH4967, PH6017, PH6018
(Only oil filter socket to fit these filters.)

Top Step (65mm)
Fits: Toyota Filters 90915-03001, 90915-03004
(This step is the same as Part No. 114384)

Part No. 114442 **ID # 74/76-15**
Cup design allows easy filter removal and installation, even in tight locations.
Use with 3/8" square drive. For 74mm and 76mm diameter oil filters with 15 flutes.
IMPORTANT: Match the fluted end of the oil filter with the filter wrench to ensure the proper wrench size.
CAUTION: Wear gloves.
Fits: 1999-Up Oldsmobile Intrigue with a 3.5L engine and other newer vehicles.

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LOW PROFILE OIL FILTER SERVICE SOCKETS

Part No. 114383
ID No. C17008
93mm / 36 Flats
Fits Motorcraft filters: FL 1A, FL300 and others

Part No. 114379
ID No. C17004
93mm / 15 Flats
Fits GM / AC, V.W. / Audi, Nissan Fram, Purolator, Wix, Champ, Other Major Brands

Part No. 114380
ID. No. C17005
84mm / 15 Flats
Fits many Toyota, Nissan, Honda, Mazda, Subaru, Isuzu factory filters

Part No. 114387
ID. No. C17080
82mm / 15 Flats
Fits WIX and Valvoline NAPA, Big A Filters Misc. Imports

Part No. 114378
ID. No. C17003
75/79mm / 15 Flats
Fits Fram, NAPA, Other Major Brands

Part No. 114377
ID No. C17002
75/77mm / 15 Flats
Fits GM / AC, Wix, Sears, Other Major Brands

Part No. 114382
ID No. C17007
76mm / 36 Flats
Fits Motorcraft filters FL400A and others

Part No. 114442
ID No. 74/76-15
74/76mm / 15 Flats
Fits 1999-Up Oldsmobile Intrigue with a 3.5L engine and other newer vehicles.

Part No. 114376
ID No. C17001
75mm / 14 Flats
Fits V.W. / Audi, Porsche, B.M.W., Mercedes, Purolator, Champ, Other Major Brands

Part No. 114385
ID No. C17050
73mm / 14 Flats
Fits Toyota factory filter: No. 90915-03002

Part No. 114386
ID No. C17070
68mm / 14 Flats
Fits Mazda filter: No. Jeyo 14302, Feyo 14302 and others

Part No. 114389
ID. No. C17040
Bottom Step 67mm / 14 Flats
Fits Fram part no.'s: PH4386, PH4967, PH6017, PH6018
Top Step 65mm / 14 Flats
Fits Toyota factory filters: No. 90915-03001, 90915-03004
(This step is the same as Part No. 114384)

Part No. 114384
ID No. C17009
65MM / 14 Flats
Fits Toyota factory filters: No. 90915 - 03001, 90915 - 03004

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LUBRICATION TOOLS

OIL FILTER SOCKETS

Part No. 114640 **ID # TOY640**
14 FLATS, 64MM
Fits: 2010-83 Camry, Corolla (4 cyl.)
2011-07 Camry (6 cyl.)
2005-00 Echo
20011-01 Highlander (4 cyl.), V6 (2011-08)
2011-06 Lexus GS300, GS350, ES350, IS250, IS350, RX330
2011-03 Matrix
2005-85 MR2
1997-92 Paseo
2011-01 Prius
2011-96 RAV4
2008-07 RX
2006-04 Scion xA
2011-04 ScionxB, tC
2011-07 Sienna 3.5L
2011-99 Solara
1998-80 Tercel
2011-05 Toyota Avalon
2011-07 Toyota Tundra, V8, 5.7 liter engines

Part No. 114444 **ID # V410**
16 FLATS, 86.5MM
Fits: 2006-99 Volvo except '05/'06
40 and 50 Series
BMW 3 & 5 Series V6's
Cap style hex drive oil filter wrench, designed to firmly engage the housing, yet not damage it. Use this aluminum oil filter wrench with a ratchet and a 22mm socket to simplify the task.

Part No. 114446 **ID # 2136**
6 FLATS, 36MM, 3/8" DRIVE
Fits: BMW, Ford, Mercedes and VW 6.0L diesels, Mini Coopers/S and some Volvo's.
Applications:
Fits: BMW M52, M60, M62, M70 and M73
Fits: 6L Ford Power Stroke 2003-2005 Models F250, F350
Fits: Mercedes 604, 605 and 606
Fits: Mini Cooper
Fits: VW/Audi 2.0L Turbo Corrado VR'6 1993/on, Eurovan, Golf R32, VW VR-6 engines, '2005 (newbody 40/50 Series '2007 XC90 3.2L, 2004, Jetta and Passat 2.8L

Part No. 214008
For use on GM Cadillac CTS 2004-2003 and Saturn 2004-2000 engines.

Part No. 114445 **ID # M0219**
(Was: #M0209)
14 FLATS, 74MM
Fits: Mercedes Benz, Toyota
Fits plastic threaded cap on oil filter housing and spin off type filters.
Fits: Toyota, several models with oil filter part #08922-02011, Ford Factory Filter FL910
2004 Chrysler Crossfire 3.2L
1992-81 Cressida
2007 Dodge Sprinter 3.5L V6
2006 Ford Excape Hybrid
2006-04 Ford Focus
2006-04 Mazda 3 2.3L
2007-06 Mazda 3 speed
2002 Mercedes G-Wagon G500
2006-98 Mercedes V6 & V8
1997-91 Previa
2004-98 Sienna
2001-99 Solara
1998-79 Supra
1998-93 T100
2004-93 Tacoma
2004-84 Toyota Avalon & Camry
2006-97 Toyota Camry V6
1985-83 Toyota Celica & Turbo 1989-88
1984 Toyota Corolla (diesel)
2002-97 Truck/4 Runner
1989-87 Van 4WD/ATM
2011-05 VW/Audi Jetta
2011-06 VW/Audi - New Beetle

Part No. 114449
LOW PROFILE,
6 POINT SOCKET, 32MM
3/8" DRIVE SOCKET
Removes & installs oil filters on 2.0, 2.2 and 2.4 liter GM & Saturn engines

NOT FOR USE with an impact wrench

Part No. 114456
15 FLATS, 88MM, 22MM HEX
Fits: 2007-06 Hyundai Azerra, SantaFe, Sonata V6

And soon to be released New models of Hyundai and Kia (3.3L)

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LUBRICATION TOOLS

LINCOLN HEAVY DUTY HIGH PRESSURE CONTROL VALVE

- 7500 PSI maximum operating pressure.
- Precision-machined, all steel handle, body and guard bracket provides durability and longevity.
- Unique, precision control inlet check valve provides ease of handle operation even with increase in pressure.
- Knurled handle for positive grip.
- Handy trigger guard prevents pinching.
- Reversible inlet check seat and hydraulic jaws provide double life.
- Balanced design reduces user fatigue.
- Lubricant inlet 1/4" NPT (f); outlet 1/8" NPT (f).

WARNING

Whip Hose Models
Install as shown

Part No. 214005
Lincoln 740

HIGH PRESSURE UNIVERSAL SWIVEL

- 1/2"-27(M) X 1/4" NPT (m).
- Use with Part No. 214005 shown above.

Part No. 214006
Lincoln 81387

GREASE JOINT/FITTING CLEANER

Cleans and unclogs grease joints.

The *Grease Joint Rejuvenator* allows clogged grease fittings or joints to take on grease by injecting a light viscosity oil (such as CRC) into the grease joint via the grease fitting, thus breaking up and removing any dirt, rust or debris. The purpose of this tool is to free up the joint, enabling them to be greased.

- Loosens hardened grease in joints.
- Lubricates & frees bearings on automotive, farm, lawn & construction equipment.
- Opens clogged fittings and joints.
- Cleans, replenishes and maintains old & dirty grease fittings.

Easy to operate:
Clean the piston & o-ring before inserting.
Bleed all of the air out of the tool.
Place onto the grease fitting and tap gently with a light hammer.
The piston will eventually move down into the tool body, and indicate that the joint is being opened.

Part No. 214007

INDUSTRY	
Farm/Agriculture	
Construction/Excavating Equipment	Oil/Well-drilling
Rental Equipment	Machine Shop Equipment
Trucking/Fleet/Trailer	Home Use/Lawn Equipment
Manufacturing Equipment	Marine Drive Train

LINCOLN FLEX-O-GRIP TM HOSE

Extensions for power and hand operated grease guns provide a non-slip, push-pull grip - yet prevent accidental kinking which can cause ruptures and shorten hose life.

- Lincoln quality for top performance.
- 3 sizes for all applications - 12", 18", 36".
- Longer sizes necessary to accommodate late model cars.
- Maximum working pressure - 4500 PSI.
- Couplers not included - see page B11-9.

PART NUMBER	LENGTH INCHES	THREAD SIZE INCHES
211508	12	1/8 NPT Male
211509	18	1/8 NPT Male
211510	36	1/8 NPT Male

3 PIECE PROFESSIONAL LUBRICATION KIT

- Allows any mechanic to reach grease fittings in even the most confined areas...especially made for Chrysler K-Car and other front wheel drive cars, etc.
- Snaps on and off in a second. Eliminates the need to change coupler on grease gun.

Kit Includes:
- Right-angle grease fitting coupler which provides 90° access into areas where space is a problem.
- Heavy-duty 12" flexible hose extension with 1/8" NPT fittings to reach around obstructions.
- Quick coupler grease gun adapter pushes on any standard grease gun.

Part No. 114423

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LUBRICATION TOOLS

STANDARD DUTY EXTENSION HOSES

1/8" NPT male threaded fitting on each end.
3000 psi working pressure.
For use on hand operated grease guns only.

12" - Part No. 10852
18" - Part No. 10877

21" PUSH-ON FLEXIBLE EXTENSION

Part No. 211283*

LUBRICATION ACCESSORIES

For Mini-Lube and other greasing equipment

Part No. 10863

Standard Coupler
1/8" FPT
spring loaded
check valve.

Part No. 211280*

Push-On Needle Coupler for
high-pressure insert fittings
and recessed grease fitting.

Part No. 211275

Super Grip Hydraulic Coupler
replaces coupler on mini-lube
super grease guns and high
pressure lube equipment.

Part No. 211501

Injector needle with standard
grease fitting and protective
holder.

Part No. 211277*

Push-On Standard Button-Head
Coupler with full-head swivel.

Part No. 211290*

"K" Car Adapter
services hard to
reach grease
fittings.

Part No. 211278*

Push-On Giant Button-Head
Coupler with full-head swivel.

Part No. 10861

360° swivel with 12 locking
positions 1/8" pipe threads.
Rugged, leak-proof design.

Part No. 211279*

Push-On Right-angle Coupler
for offside grease nipples.

Part No. 211506*

4" Needle Nose Adapter.
Fits standard couplers with
both small and large sleeves.

* Accessories marked with asterisk come with "PUSH-ON" coupler for immediate fit to grease guns.

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LUBRICATION TOOLS

LINCOLN KLEENSEAL®

The best name in lubricating equipment and accessories.

Model 213290 Angle Lube Adapter

Designed to service hard-to-reach grease fittings on cars, trucks, machinery and farm equipment. Allows for fast and complete lubrication of steering and suspension systems of late model front wheel drive cars. (including Chrysler K-Cars).

Lincoln 5859

Part No. 213290

Model 213291

For lubricating recessed fittings where obstructions will not permit use of hydraulic coupler. Includes extension nozzle and locking sleeve.

Lincoln 5855

Part No. 213291

Model 213292

For contacting hard-to-reach fittings and flush type fittings. Includes needle nozzle and locking sleeve.

Replacement needle nozzle **Part No. 213297**

Lincoln 82784

Part No. 213292

Model 213288 Small Diameter Hydraulic Coupler

For use with all hydraulic type grease fittings. Small outside diameter permits easy contact with recessed fittings. Has replaceable hardened steel jaws and built in ball check. Inlet 1/8'' NPT female.

Lincoln 5852

Part No. 213288

Model 213289

For contacting hydraulic fittings - inlet 1/8'' NPT female. Ball check prevents leaks when coupler is not in use. Jaws within coupler are actuated by lubricant pressure and grip fitting for positive, leakproof seal. Hardened steel jaws are reversible for double service life.

Lincoln 5845

Part No. 213289

Model 213298 Coupler Adapter

Swivels in full 3600 circle and locks in any one of eight 450 positions. Adjustable coupler section assembled with a 450 body permits contact with fittings in reverse position. Angle body has 1/8'' NPT female inlet for addition of pipe extension.

Lincoln 5848

Part No. 213298

Model 214150 Extra Long Needle Nozzle

6 inch needle nozzle for many lubing situations that are difficult to handle with ordinary lube gun nozzle.

Lincoln 5806

Part No. 214150

BMW SERVICE LIGHT RESET TOOL

- **Warranty: Three years, parts & labor repair or full replacement.**
- **Easy to use: With it's fool proof instructions it is virtually impossible to do wrong. Takes only seconds.**
- **Rugged: Built to last. Both the too & it's protective case are constructed of high impact plastics.**
- **Compatibility: Unlike other tools on the market, this universal tool will work on any year or model BMW. If it has a service light this tool will work.**
- **Zap Proof: Designed to withstand harsh automotive power surges.**

Part No. 114440

DIFFERENTIAL PLUG EXTRACTOR

- **For removing differential plugs which have "Rounded Out".**
- **Fits 1/2" plug with 3/8" square hole.**

Part No. 213649

G16

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LUBRICATION TOOLS

55 GALLON DRUM DRAIN FUNNEL

Part No. 113309

- Designed to transfer liquids into a 55 gallon drum.
- Eliminates overspills while pouring.
- Large surface area permits drainage of multiple containers simultaneously.
- Heavy duty plastic for long lasting durability.
- Four graduated circular indentations fit different size oil filters.

TRANSMISSION DRAIN FUNNELS

Part No. 113308

Part No. 113323

- Heavy duty plastic lift drain funnels extends the catch area of any lift drain.
- Funnel catches any loose parts.
- Dimensions: Part No. 113323 - 22" x 23"
  Part No. 113308 - 24" x 36"

GREASE GUN

Working pressure of 10,000 lbs.
Handles grease cartridges or bulk grease

Part No. 10850

SUCTION & OIL GUN

Quality made by Lincoln.

This gun provides a fast, clean method for removing and adding transmission and gear oil. Use to take engine oil sample for analysis. Linpak® follower is precision fitted to barrel and impervious to oil and water. Large 20 oz. lubricant capacity with flexible nozzle for transmission, differential and oil filter service. Finished in rust resistant blue enamel.

Part No. 213299

GREASE FITTING EASY-OUT TOOL

Removes 5/16" and 3/8" hex.
Retaps 1/4-28 std. thread
Removes 1/4-28 std. thread.

Part No. 10880

RIGHT ANGLE LUBE ADAPTER

Part No. 211511

- New design.
- The best solution for hard-to-reach fittings.
- Especially good for late model Chrysler K-Car and other front wheel drives.
- Works where others fail.
- Fits all standard grease guns.

AIR GREASE GUN

Part No. 108625

With Pipe and Coupler

One-handed grease gun that delivers 1,500 to 6,000 PSI each time the trigger is pressed when attached to a compressed air supply of 30 to 160 PSI (2 kglem to 10 kglem).

This item is warranted by the factory only: DO NOt give defective tools to your Agents, return them to the factory. Return instructions are packed with every tool.

PISTOL GREASE GUN

With Rigid-Pipe Extension & Standard Coupler with Check Valve

One hand operation frees the other hand for easy lube jobs. Precision pump develops up to 6000 PSI. Easy three-way loading by standard 14oz. cartridge, suction filled, or by grease gun filler.

Part No. 113400

ALEMITE STANDARD DUTY GREASE GUN

- Three way loading.
- Capacity: 16 oz.
- Pressure: 10,000 P.S.I.
- Cushion grip handle.

Part No. 10500

LINCOLN MODEL 1142 GREASE GUN

- Lube capacity 16 oz. bulk.
- 14.5 oz. cartridge.

Part No. 111142

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LUBRICATION TOOLS

6 qt. DRAIN PAN

- Polyethylene
- 6 quart capacity to the brim
- 4'' deep
- 14'' wide to spout

Part No. 114426

ALL PURPOSE SUPER FUNNEL

- Polyethylene 5'' wide at mouth.
- 9/16'' wide insert end.
- 17-1/4'' long.

Part No. 114430

30 qt. MULTI-DRAIN TUB

Part No. 114428

30 Quart, all purpose, heavy duty, plastic drain tub. For draining radiator, crankcase, transmission, differential. Accommodate autos and trucks. Apron for washing and sorting parts. Designed for easy pouring and disposal. Handy when lift drains are in use, or unavailable. A professional's tool. 33'' x 22'' x 8''.

60 QT. SUPER TRUCK DRAIN ON WHEELS

Part No. 114429

A rugged heavy duty plastic tub for draining a large capacity crankcase. Resistant to corrosives found in oils. Holds 60 quarts to the rim. Heavy duty casters fit into built-in fasteners for maneuverability. Sturdy formed wire handle for easy moving. Overall height 101/2'', width 191/2'' I.D. and length 321/2'' I.D. to pour spout.

SUPER COLLECTOR™, SPILL-PROOF DRAIN PAN

Holds 18 quarts of oil, anti-freeze, water, chemicals or solvents.

Part No. 114433 - 4-1/2 gal.

HEAVY DUTY 5 QT. OIL CAN WITH FLEX SWING SPOUT & REDUCER SPOUT

Part No. 114431

Good for engine oil, transmission fluid etc.

DRUM DOLLY

Moves 55 gallon steel and fibre drums.

- Welded steel construction - prevents frame failure.
- Bolted caster for easy replacement.
- Reinforced outrigger design gives greater load stability and caster life.
- 23-1/2" I.D., 6" high, 900 LB. capacity.

Part No. 211480

DRUM TROLLEY

- Metal frame.
- Four caster.
- Fits 35 lbs. (5 gal. pail)

Part No. 211289

5 QT. PLASTIC LIQUID MEASURE W/FLEX SPOUT

- Flex spout included.
- Made of durable white plastic material.

Part No. 113005

WATER NOZZLE

For attaching to water service hose.
Thumb-action trigger.
Has 1/4" NPT female inlet.

- No drip.
- Flexible spout.
- Smooth flow.
- Great for lube shops.

Part No. 213349

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BATTERY SERVICE TOOLS

WIRE TERMINAL BRUSH

- Cleans battery posts and cable terminals.
- Steel case with knurled grip.

Part No. 11346

SIDE TERMINAL BRUSH

- Cleans side terminal battery post without removing battery from vehicle.
- Also cleans cable terminal end.
- Use by hand or attach to 1/4" driver.

Part No. 213382

TERMINAL PULLER

- Removes clamps without damaging posts.
- Jaws lock under clamp - won't slip off..

Part No. 11390

PROFESSIONAL BATTERY TESTER

- Direct reading scale shows exact specific gravity.
- Temperature compensating for hot or cold batteries. No compensation chart necessary.

Part No. 113124

EXTRA HEAVY DUTY FLEET BOOSTER CABLES

- 2 gauge, 100% copper.
- Parrot-type 500 amp color coded clamps with serrated jaws.
- Single leads for greater flexibility.
- Thermoplastic rubber insulation resists oil, grease and abrasion.

Part No. 222174 - 20 foot

PROFESSIONAL TANGLE-FREE HEAVY DUTY BOOSTER CABLES

- 4 gauge, 100% copper.
- Color coded red and black clamps.
- Extended double jaws fit post terminal and side terminal batteries.

Part No. 11201 - 12 foot

Part No. 11202 - 20 foot

TERMINAL CLEANER & RESHAPER

- Stainless steel brush cleans post battery terminals.
- Stainless steel blades clean and reshape post style cable terminals.
- Tough polyethylene case fits either end for safety.

Part No. 213381

TERMINAL CLEANER & RESHAPER

- Spring steel blades recut correct taper on positive and negative posts, leaving a polished finish.
- Stainless steel reamer blades clean and reshape terminals.

Part No. 11338

BATTERY FILLER

- Flexible polyethylene spout.
- Leakproof interlocking bulb.
- Acid resistant.

Part No. 11355

REPLACEMENT CABLE CLAMPS

- Set of two color coded clamps.
- Designed to fit top-post and side terminal batteries.
- Plastisol insulation - shock proof and chip-proof.

Part No. 222170 - 500 amp

Part No. 222171 - 800 amp (illustrated)

BATTERY FILLER

• QUALITY MADE IN THE USA •

This safe and easy-to-use acid resistant battery filler is made of super tough polyethylene plastic and features an automatic shut-off to prevent overfilling. A double action fast flow valve to prevent after-drip and stops surface discharge caused by a wet battery. 2-1/4 quart capacity.

Part No. 213217

REPLACEMENT VALVE TIP AVAILABLE
Part No. 213237

MEMOR-EZE

Part No. 113101

Automotive computer memory unit.

- Allows vehicle battery to be disconnected without loss of memory on radios, clocks, and computer functions which control driving ability.
- Retains settings up to 4 hours.
- Will not power any lights, hood dome or others.
- Easy to use; Plugs into cigar lighter.
- Use a fresh 9 volt alkaline battery for long battery life. (NOT INCLUDED)

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BATTERY CLEANER and PROTECTOR

Two products in one can, cleans and protects batteries.

- **Eliminates rust and corrosion.**
- **Penetrates, dissolves and neutralizes corrosion and acid build-up on all storage batteries.**
- **Leaves protective seal against future corrosion build-up.**
- **Increases electrical conductivity and prolongs battery life.**

NEW
EPA Compliant Formula
No MCL, CFCs or Trichloroethane

Part No. 13139 (24)
14 oz. net wt. (397 g)

TERMINAL EXTRACTOR PICKS

Part No. 113747 Narrow Blade (.050) OE: 12012000

Part No. 113748 Wide Blade (.090) OE: 8913369

- **Used to release locking tang on automotive terminals. Allows removal from insulated housing or terminal block.**
- **113747 used with Pac-Con, small Metri-Pack & ECM terminals.**
- **113748 used with 56 series, and large Metri-Pack terminals.**

GM WEATHER-PACK TERMINAL EXTRACTOR TOOL

Part No. 113746
OE: 12014012

- **Ultra-thin, hollow center.**
- **Releases Weather-Pack automotive terminals from connector housing by depressing both retention barbs.**
- **Conforms to GM 12014012.**

OPEN BARREL TERMINAL CRIMPING TOOL

- **Five machined and hardened crimp stations for 24 to 14 gauge wire terminators.**
- **Parallel jaws eliminate faulty crimps due to accidental jaw cocking during crimp cycle.**
- **Made by same company that makes Packard Crimp Tools.**
- **Includes complete instructions.**

Part No. 113300

- **Duplicates factory crimps on open barrel terminals. Used in automotive, computer and control applications.**

FUEL / TRANSMISSION / AIR CONDITION DISCONNECT SET

- **Use on fuel line, oil cooler and transmission lines.**
- **Comes in a handy blow-molded case. Instructions are bi-lingual.**

Contains:
Fuel Line Disconnect Tools
Sizes: 5/16", 3/8" and 1/4"
Oil Cooler Line DIsconnect Tool
Fuel Line Coupling Tool
Ford & Mercury Oil Cooler Line Disconnect Tool
Ford & GM Quick Disconnect Tool

Fuel Line Disconnect Tool | **Fuel Line, Oil Cooler Line, and Transmission Cooler Line disconnect Tool** | **Oil Cooler Line Disconnect Tool**

Part No. 113444

FUEL LINE DISCONNECT TOOL

- **Scissor-like design allows for easy, damage-free fuel line quick connect coupler release.**
- **Fits 5/16" or 3/8" fuel lines found on GM, Ford, and Chrysler vehicles.**
- **Durable metal construction.**

Part No. 214004

DYES - 1 oz. bottle

PART NUMBER	QTY	FOR USE IN CHECKING THIS SYSTEM
213492	6	Gasoline Engine Oil
213494	6	ATF
213496	6	Coolant
213090	6	Air Conditioning, R134A PAG Systems
213091	6	Air Conditioning, R134A Ester Systems

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ENGINE SERVICE TOOLS

COOLANT TEST STRIPS

Tests freezepoint/boilpoint and coolant ph levels protection in just 15 seconds.

- Determines protection against freeze-up and boil-over, which can cause leaks and damage to the water pump, head gasket and other cooling system components.
- Quickly tests both ethylene and propylene glycol - based coolants, in just a matter of seconds. Hydrometers do not accurately test propylene glycol.
- Identifies cooling system service opportunities.
- Prevents costly repairs in fleet maintenance.
- Assists in coolant recycling. Tests for proper protection levels before and after recycling. Tests quality when purchasing recycled coolant.
- Not recommended for use with red or orange dyed coolants.
- Satisfactory range is 7.5 to 10.

Part No. 113102 50

- Fast & accurate results with either conventional or long life coolants.
- Regular testing of anti-freeze coolant minimizes downtime & it's associated cost.
- Measures the freeze-point, reserve alkalinity & PH when used with long life/extended life coolants such as Dexcool®.
- Color chart shown on bottle.
- 70 strips per bottle.

Part No. 113115 70

RADIATOR CAP PLIERS

- Removes radiator caps quickly.
- Perfect for closed system caps in tight areas.
- Engage pliers over cap, press down and turn.

Part No. 113540

DYNA-CUTTER

- Cuts rubber or plastic hose in seconds.
- Cuts hose up to 1-1/8" diameter.
- Excellent for heater hose, fuel line, PCV hose.

Replacement blades available, 2 per pack.

Order Part No. 113149 2

Part No. 113148

ANTI-FREEZE TESTER

- Direct reading style in "Fahrenheit and Celsius".
- Temperature compensating.
- Tests ethylene gycol type solutions.

Part No. 113123

HOSE CLAMP PLIERS

- Removes wire type hose clamps.
- Special slots will not slip off clamp.
- Works at a 90° angle or straight.

Part No. 113420

ANTI-FREEZE/COOLANT TESTER

Tests permanent anti-freeze, hot or cold-accurate at any temperature from +200°F. to -34°F:discs are perfectly compensating.

- 6 floating disc-5 show degree of protection: 6th disc shows not safe (too much anti-freeze)*.
- Break resistant SAN Plastic Tube.
- Easy to read-Convex tube magnifies discs when solution is drawn into tube.
- Gradings in celsius and fahrenheit.

Part No. 113122

SEAL PULLER

Pops the seal every time...FAST and EASY

Simply insert the tip of the tool behind the oil or grease seal, press and pull.
Leverage works for you.
No more pounding, hammering and digging that might damage bearings. The right tool for the job.
Two size tips reach in and fit nearly all seal applications.

Part No. 213283

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ENGINE SERVICE and EXHAUST TOOLS

SERPENTINE BELT WRENCH SET

- Will service approximately 85% of all vehicles with serpentine belts having a spring loaded tensioner pulley.
- Ratcheting wheels allow quick, easy indexing of wrench driving end to allow user to approach the tensioner from any accessible angle.
- Wrenches fit tensioners requiring 13mm (1/2"), 14mm, 15mm, 16mm (5/8"), and 18mm hex, and 3/8" and 1/2" square drive sizes to service most applications. Sold as a 2 piece set only.
- Slim head design allows access to tight areas found in the tensioned area on some front wheel drive vehicles.

Part No. 114414

RADIATOR DRAIN COCK SOCKET

Eliminates twisting or breaking of drain cock ears.

- Special slotted socket fits over drain cock ears.
- Use 3/4'' wrench or screwdriver to turn socket.
- Opens the tightest drain cock without breakage.
- Fits brass or nylon drain cock.
- 2'' overall length.

Part No. 213110

WINDSHIELD WASHER SOLUTION HYDROMETER

- Accurately tests the freezing point of methanol/water and windshield washer solution.
- This unbreakable hydrometer gives an instant freeze protection reading.
- Complicated temperature adjustments are unnecessary.
- This hydrometer will save you money and is E-Z to use.
- Specially formulated plastic will not react with methanol, giving years of easy-to-read service.

Part No. 113446

CYLINDER HONE

- 3 stones provide more cutting surface, assure quick removal of cylinder glaze.
- Adjustable stop-collar permits quick selection of two range settings, from 2" to 4" & from 4" to 7".
- Operates with any electric drill.
- Comes with one set of 220 grit stones.

Part No. 213277

REPLACEMENT STONES, 220 GRIT
Part No. 213278

HOSE PINCH-OFF PLIERS

- No need to drain system when changing thermostats. Save coolant – save time.
- Jaws swivel for parallel clamping. Heat treated, steel arms automatically lock with locking ratchet.
- May also be used to pinch off vacuum lines.
- Not for use on wire reinforced radiator hose.

Part No. 113445

EXHAUST PIPE SHAPER

Rounds out crushed or bent exhaust and tailpipes.

- Works equally well inside pipe or outside.
- Makes installing mufflers and pipe easy.

Part No. 11393

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BRAKE REPAIR TOOLS

UNIVERSAL SILENCERS - *FOR SOLID ROTORS*

- **Black super-flex rubber for long life, superior vibration and chattering suppression.**
- **May be used with all brands of brake machines.**

PART NUMBER	DESCRIPTION
FOR SMALL DOMESTIC & IMPORTS	
113346	Small super-flex silencer band - 3/8 x 1/4 x 6-1/2 dia.

PART NUMBER	DESCRIPTION
FOR MID-SIZE & FULL-SIZE	
113347	Large super-flex silencer - 3/8 x 1/4 x 9 dia.

ACCESSORIES FOR AMMCO BRAKE MACHINES

- **Band compounded of natural rubber for long life and excellent elasticity.**
- **Adjustable buckle for best fit.**
- **Fits any ventilated rotor.**
- **Lead weight inserts effectively deadens vibration and chatter.**

Rotor Silencer, replaces Ammco #6920
Part No. 113348

DRUM SILENCER

- **ExFits any size passenger car drum.**
- **Natural rubber for long life and excellent elasticity.**
- **Strong Resisto-Plated buckle for a secure fit.**
- **Heavy 1-3/4'' wide, 3/16'' thick, 72'' long band effectively deadens vibration and chatter.**

Drum Silencer, replaces Ammco #5280
Part No. 113349

ROTOR SILENCER PADS

- **For use with any size rotor - especially good for thin, non-ventilated rotors.**
- **Two pads used per machine.**
- **Tough high friction material with a strong thermotemp mount.**
- **Easily snaps on Ammco #7075 disc silencer.**
- **Packed 1 pair per box.**

Rotor Silencer Pad, replaces Ammco #9183
Part No. 113350 1 pr

CYLINDER HONE PADS

- **ExStones are cemented with epoxy cement which is impervious to brake fluid.**

Part No. 11383

DRUM BRAKE CYLINDER HONE PADS

- **ExStones are cemented with epoxy cement which is impervious to brake fluid.**

Part No. 11381

BRAKE LATHE SILENCERS

Chatter depressing, chip deflecting clamping silencers.

For use with On-The-Car RTI and Pro-Cut brake lathes.

Part No.
113010 (Shark 71B)

Use with any rotor off the car and some on-the-car models.

Part No.
113014 (Shark 70B)

CYLINDER HONE

- **ExFlexible shaft works right on the car.**
- **ExWorks with any electric drill.**
- **ExFits all cylinders from 3/4'' to 2''.**

Part No. 11382

ON-THE CAR CARBIDE BRAKE LATHE BITS

POSITIVE RAKE
Fits All Tool Model 747, Hunter BL500, 501, Performance 8711.

Part No.
113011 (10) (Shark 065)

POSITIVE RAKE
Fits Pro-Cut 50-741, Pro-Cut 50-742.

Part No.
113012 (10) (Shark 069)

MICRO-ROUND
Fits Hunter On-The-Car lathe model OCL360

Part No.
113013 (10) (221-626-3)

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BRAKE REPAIR and TIRE/WHEEL REPAIR TOOLS

BRAKE DRUM AND ROTOR CUTTING BITS

- **Special alloy steel resists wear and breakage for longer life and more work per bit.**
- **Outlasts ordinary carbide bits.**
- **Extra fine precision ground superalloy cutting edge provides longer life.**
- **Each Ammco bit has six cutting edges (12 cutting points).**

FOR AMMCO MACHINES

Replacement Bits Fit AMMCO Models: 3000, 4000, 4100, 6900, 7000 and 7700.

AVAILABLE IN TWO TYPES:

Superalloy Cutting Bits
Replaces Ammco #6914

Part No. 113340 (12) (Shark 062)

Titanium Nitride Coated Cutting Bits outlast competitive bits up to 500%
Replaces Ammco #6914-2

Part No. 113343 (12) (Shark 062C)

SUPERALLOY CUTTING BITS

FOR F.M.C. MACHINES

Fits all F.M.C. machines, for use with right and left hand tool holders each bit has 3 cutting edges, replaces F.M.C. #487, 90487.

Part No. 113341 6 (Shark 407)

FOR KWIK-WAY MACHINES

Fits Kwik-Way machines model SDL, old model DL and 850 disc brake attachment, Lin-Otronics and Rotunda, each bit has 3 cutting edges, replaces Kwik-Way #109-1092-07.

Part No. 113342 6 (Shark 802)
*Also available in packs of 10.

FOR ACCU-TURN MACHINES

Fits Combination disc/drum lathe for discs.

Part No. 113352 5 (Shark 060)

ROUND CARBIDE BITS

Part No.113008*
Round Carbide Bits

- **Especially designed to dramatically improve cutting and surface finish on Ammco and other Brake Lathes.**
- **New, longer-life carbide bits offer added cutting edges compared to regular bits.**

***Now available in both a six and ten pack.**

E-Z STRIP REPAIR NEEDLE

- **Makes installation easy.**
- **Use with all strip repair material.**
- **Tool design may vary.**

Part No. 715327

TIRE STRING REPAIR NEEDLE

- **Closed-eye.**

Part No. 715334

E-Z PROBE

- **Cleans injury before repairing.**
- **Applies cement to injury.**
- **A must for steel-reinforced tires.**

Part No. 715328

WHEEL WEIGHT TOOL

- **A rugged, durable tool for quick removal and installation of wheel weights.**

Part No. 11349

DUNK TANK

Part No. 114425

- **Heavy duty plastic.**
- **For tire and tube test.**
- **Tank features pyramid type ribs for extra support to prevent bowing.**
- **Will handle passenger tire sizes to wide oval and light duty truck tires. 31'' x 12'' x 12''.**

REFER TO SECTION H11 FOR RELATED ITEMS.

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TIRE/WHEEL REPAIR TOOLS

NOTE: See page B11-2 & 3 for additional tire items.

TIRE VALVE REPAIR TOOL

Four tools in one! Extracts damaged cores. Reconditions inner and outer valve threads. Inserts valve cores.

Part No. 11345

VALVE CORE TOOL

COMBINATION LARGE BORE & STANDARD

For easy removal and insertion of valve cores. One end for large bore valve cores, and the other end for standard valve cores.

Part No. 113840

TUBE DEFLATOR TOOL

For fast complete deflation of all inner tubes (trucks, tractors, buses and passenger cars.) Screw into valve stem and apply air chuck to threaded inlet for instant siphoning of air from tube.

Part No. 113844

VALVE FISHING TOOL

Valve insertion tool, tube deflator and core remover, all in one handy tool. Made with strong flexible steel cable. Designed to align and/or seat valve stem through rim hole.

Part No. 113842

TIRE THREAD DEPTH GAUGE

The accurate and convenient way to measure the depth of all tire threads. Round aluminum indicator bar calibrated from 0 to 1" in 1/32" markings. A must for determining remaining tire life.

Large Base | Flat Blade | Pocket Clip

Part No. 113843

TIRE PRESSURE GAUGE

Passenger car gauge. Designed for economy and accuracy. Calibrated 6-50 lbs. Easy to read metal bar. Triple chrome plated. New design includes pocket clip, deflation pin, and valve core extractor.

Part No. 11350

TIRE PRESSURE GAUGE

Precision engineered service gauges provide accurate, long life trouble free performance. Plated brass tube and 4 sided nylon indicator bar. Calibrated 2 sides 10 to 160 PSI, in 2 lb. increments and 2 sides 80 to 1100 kPa, in 20 kPa units.

Part No. 11351

STRAIGHT FOOT, DUAL HEAD CHUCK SERVICE TIRE GAUGE

For inner style duals.

Part No. 11986

TUBELESS TIRE VALVE INSERTING TOOL

Designed to quickly and easily install any snap-in tubeless tire valve.

Part No. 715331

E-Z PLUG GUN

- The fastest, easiest way to repair most punctures "on" or "off" the wheel.
- For best results, use our 5/16", 3/8" & 7/16" repair plugs.
- Complete with two nozzles.

Replacement nozzles only:
715203 - Small for 5/16" & 3/8" plugs
715204 - Large for 7/16" plugs

Part No. 715205

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KEY BLANK ACCESSORIES

STD. KEY RING

For ringing duplicate keys.

Part No. 915025 250
7/8" diameter

- **Manufactured of galvanized spring wire.**

BRASS KEY TAG

For easy identification of keys.

- **100% solid brass.**
- **.040 inches thick.**

PART NUMBER	OD (INCHES)	QTY
915026	1	50
915037	1-1/4	50
915038	1-3/8	50

H.D. KEY RINGS

For ringing duplicate keys.

PART NUMBER	DIA. (INCHES)	QTY
915024	7/8	50
915031	1	50
915032	1-1/8	50
915033	1-1/4	50
915034	1-1/2	50

- **High quality nickel plated steel.**
- **Two full turns of steel.**

GENERAL PURPOSE TAG

Ideal for auto dealers, marinas, apartments, hotels, motels, service stations & stock keys. Tags merchandise, equipment, inventory, stock & keys.

PART NUMBER	COLOR	QTY
915028	Yellow	250
915029	Blue	250
915030	Green	250

- **Heavy weight paper stock.**
- **Complete with metal ring.**
- **1-3/8" X 2-3/4".**

UTILITY TAGS

Used for tagging keys, pricing, and a multitude of other tag uses.

- **1-1/4" diameter.**
- **Metal rim, paper centers.**
- **Complete with knotted loop string.**

Part No. 915027 100

NYLON KEY DEBURRING BRUSH

- **Protects against annoying finger scrapes and cuts.**
- **Will not wear or distort the cut depths.**

Outside diameter: 3"
Hole diameter: 1/2"

Part No. 915006

CUTTER WHEEL

- **Hole I.D. 1/2".**
- **O.D. 2-1/4".**

Part No. 915002*

*Both items for use on ESP Machine, Micro Mac 88 & Ilco Mini-Mite

KEY ASSORTMENTS WITH DISPLAY BOARD

DISPLAY BOARD (ONLY)

- **Comes with 28 Hooks.**
- **Free standing.**
- **Available separately and in assortments.**

Order Part No. 915001

See following pages for individual key blanks and applications.

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DOMESTIC AUTO KEY BLANKS

KEY ILLUSTRATIONS ARE NOT ACTUAL SIZE.

GENERAL MOTORS / FORD / CHRYSLER / AMERICAN MOTORS

- Available 3 ways -

- OEM Style - When the look of a key is important, use Our OEM style keys. GM keys are genuine OEM; AMC, Chrysler and Ford are exact replacements.
- OE Style with rubber head - where available.
- Standard replacement - the economic alternative.
- All of our keys are solid brass & nickel plated.

CAR MAKE	GM	GM	GM	GM	GM
INDUSTRY NO.	B44 (E)	B45 (H)	B48 (A)	B49 (B)	B50 (C)
OEM STYLE	915419	915421	- - -	- - -	- - -
OE RUBBER HEAD	915495	915496	915413	915417	915410
STD REPLACEMENT		915101	915102	915105	- - - 915107

CAR MAKE	GM	GM	GM	GM	GM
INDUSTRY NO.	B65	B69	B78 B78-P	B79	B82-P/B86
OEM STYLE	- - -	- - -	- - -	- - -	- - -
OE RUBBER HEAD	- - -	- - -	- - -	- - -	915501
STD REPLACEMENT	915157	915158	915463	915464	- - -

CAR MAKE	GM	GM	GM	GM	GM
INDUSTRY NO.	B86/B82	B88-P	B89/B83 B89-P	B91 B91-P	B96
OEM STYLE	- - -	- - -	- - -	- - -	- - -
RUBBER HEAD	- - -	915497	915577	915578	- - -
STD REPLACEMENT	915529	- - -	915576	915560	915562

"P - SHOWS THAT THE KEY COMES WITH OE STYLE PLASTIC HEAD."

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KEY ILLUSTRATIONS ARE NOT ACTUAL SIZE.

DOMESTIC AUTO KEY BLANKS

CAR MAKE	GM	GM	GM	GM	FORD
INDUSTRY NO.	B102 B102-P	B106-P	B110-P	H50	H51
OEM STYLE	- - -	- - -	- - -	- - -	- - -
RUBBER HEAD	915584	915638	915646	- - -	- - -
STD REPLACEMENT	915583	- - -	- - -	915111	915112

CAR MAKE	FORD	FORD	FORD	FORD	FORD
INDUSTRY NO.	H54	H60	H67-P H67	H70-P	H75-P
OEM STYLE	- - -	- - -	- - -	- - -	- - -
RUBBER HEAD	- - -	- - -	915506	915507	915498
STD REPLACEMENT	915432	915490	- - -	- - -	- - -

CAR MAKE	FORD	FORD-SVC. KEY	FORD	FORD	CHRY
INDUSTRY NO.	H78	H86	MZ13-P MZ13	1167FD H51	Y152
OEM STYLE	- - -	- - -	- - -	Ford	915402
RUBBER HEAD	- - -	- - -	915451	- - -	- - -
STD REPLACEMENT		915565	915625	915165	915405 - - -
STRATTEC NO.	- - -	- - -	- - -	321207	- - -

CAR MAKE	CHRY	CHRY	CHRY	CHRY-JEEP	CHRY
INDUSTRY NO.	Y154-P	Y157-P Y157	Y159PCHY Y159-P	Y163PJP	MIT1-P MIT1
OEM STYLE	- - -	- - -	915627	915629	- - -
RUBBER HEAD	915489	915509	915548	- - -	915468
STD REPLACEMENT	- - -	915567	- - -	- - -	915574

"P - SHOWS THAT THE KEY COMES WITH OE STYLE PLASTIC HEAD."

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DOMESTIC AUTO/TRACTOR KEY BLANKS

KEY ILLUSTRATIONS ARE NOT ACTUAL SIZE.

CAR MAKE	CHRY	CHRY	AMC	BRIGGS & STRAT	BRIGGS & STRAT
INDUSTRY NO.	MIT6 MIT6-P	- - -	RA4	1098M	1098PB
OEM STYLE	- - -	- - -	915200	B1	PETERBILT
RUBBER HEAD	915588	915406	- - -	- - -	- - -
STD. REPLACEMENT	- - -	- - -	915121	915512	915511
STRATTEC NO.	- - -	594145 692350	- - -	- - -	- - - - - -

CAR MAKE	BRIGGS & STRAT	CATERPILLAR	JOHN DEERE		
INDUSTRY NO.	B52	1641	C1098JD		
OEM STYLE	GAS	- - -	- - -		
RUBBER HEAD	- - -	- - -	- - -		
STD. REPLACEMENT	915109	915649	915603		
STRATTEC NO.	- - -	- - -	- - -		

CAR MAKE	HEAVY TRUCK	HEAVY TRUCK	HEAVY TRUCK	HEAVY TRUCK	HEAVY TRUCK
INDUSTRY NO.	- - -	- - -	RA4 1970AM	RA4 1970AM	K1994
OEM STYLE	Freightliner	Freightliner	Int.	Mack	Kenworth
RUBBER HEAD	- - -	915408	- - -	- - -	915426
STD. REPLACEMENT	915407	- - -	915409	915425	- - -
STRATTEC NO.	322311	597893	321490	323688	596807

CAR MAKE	HEAVY TRUCK	HEAVY TRUCK			
INDUSTRY NO.	B5 1098DB	RA3 S1970AM			
OEM STYLE	Kenworth	Navistar/ International			
RUBBER HEAD	- - -	- - -			
STD. REPLACEMENT	915427	915428			
STRATTEC NO.	320734	321487			

"P - SHOWS THAT THE KEY COMES WITH OE STYLE PLASTIC HEAD."

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KEY ILLUSTRATIONS ARE NOT ACTUAL SIZE.

IMPORT AUTO KEY BLANKS

CAR MAKE	DATSUN	NIS/ SUB	NIS/ DAT/ SUB	NIS/ DAT	NISSAN
INDUSTRY NO.	62DT, DA22	DA25-P DA25	DA31-P	DA32-P	DA34-P
OEM STYLE	- - -	- - -	- - -	- - -	- - -
RUBBER HEAD	- - -	- - -	915514	915515	915546
STD. REPLACEMENT	915125	915568	- - -	- - -	- - -

CAR MAKE	MITSUB/ CHRY	HONDA	HONDA	MITSUB	MITSUB
INDUSTRY NO.	DC3-P	HD91-P	HD103-P	MIT1-P MIT1	MIT6 MIT6-P
OEM STYLE	- - -	- - -	- - -	- - -	- - -
RUBBER HEAD	915443	915448	915517	915468	915588
STD. REPLACEMENT	- - -	- - -	- - -	915574	- - -

CAR MAKE	MAZDA	MAZDA	TOYOTA	TOYOTA	TOYOTA
INDUSTRY NO.	MZ13-P MZ13	MZ16-P	TR33-P	TR40	TR44-P
OEM STYLE	- - -	- - -	- - -	- - -	- - -
RUBBER HEAD	915451	915522	915453	- - -	915526
STD. REPLACEMENT	915165	- - -	- - -	915456	- - -

CAR MAKE					
INDUSTRY NO.	V35-P				
OEM STYLE	- - -				
RUBBER HEAD	915458				
STD. REPLACEMENT	- - -				

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GEN. PURPOSE KEY BLANKS

KEY ILLUSTRATIONS ARE NOT ACTUAL SIZE.

LOCK MAKE	ALMET	ARROW	ARROW	CHICAGO	CHICAGO
INDUSTRY NO.	SC4	AR1	AR4	CG1	CG16
PART NO.	915643	915175	915470	915471	915170

LOCK MAKE	CHICAGO	CORBIN	CORBIN	CORBIN	CORBIN
INDUSTRY NO.	CG22	CO1	CO26	CO87	CO106
PART NO.	915533	915534	915536	915472	915473

LOCK MAKE	DEXTER	EAGLE	ESP	ILCO/ UNICAN	ILCO/ UNICAN
INDUSTRY NO.	DE6	EA27	ES9	IN2	IN3
PART NO.	915176	915177	915537	915538	915185

LOCK MAKE	ILCO/ UNICAN	ILCO	ILCO/ UNICAN	KWIKSET	KWIKSET/TITAN
INDUSTRY NO.	IN4	IN8	IN18	KW1	KW10
PART NO.	915539	915474	915186	915178	915636

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KEY ILLUSTRATIONS ARE NOT ACTUAL SIZE.

GEN. PURPOSE KEY BLANKS

LOCK MAKE	KWIKSET/TITAN	LOCKWOOD	MASTER	MASTER	MASTER
INDUSTRY NO.	KW11	L1	M1	M2	M4
PART NO.	915637	915187	915179	915188	915540

LOCK MAKE	MASTER	MASTER	MASTER	MASTER	NATIONAL
INDUSTRY NO.	M11	M13	M16	M20	NA6
PART NO.	915541	915639	915633	915641	915190

LOCK MAKE	HUDSON/ NATIONAL	RUSSWIN	RUSSWIN	SARGENT	SARGENT
INDUSTRY NO.	RO1	RU45	RU46	S4	S22
PART NO.	915542	915478	915479	915480	915481

LOCK MAKE	SCHLAGE	SCHLAGE	SCHLAGE	SCHLAGE	SCHLAGE
INDUSTRY NO.	SC1	SC4	SC6	SC8	SC22
PART NO.	915180	915643	915192	915482	915193

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GEN. PURPOSE & MISC. KEY BLANKS

KEY ILLUSTRATIONS ARE NOT ACTUAL SIZE.

LOCK MAKE	SEGAL	TAYLOR	TITAN/KWIKSET	TITAN/KWIKSET	WESLOCK
INDUSTRY NO.	SE1	T7	KW10	KW11	WK2
PART NO.	915181	915194	915636	915637	915182

LOCK MAKE	WEISER	WEISER	WEISER	YALE	YALE
INDUSTRY NO.	WR2	WR3	WR5	Y1	Y2
PART NO.	915484	915183	915485	915184	915644

LOCK MAKE	YALE	YALE	YALE	YALE	YALE
INDUSTRY NO.	Y6	Y9	Y11	Y12	Y13
PART NO.	915598	915543	915197	915198	915486

LOCK MAKE	YALE	NATIONAL (CABINET)	SENTRY SAFES	DELTA TOOL BOXES	FIC-RV'S TRAILER HITCHES
INDUSTRY NO.	Y14	RO4	SS4/1626	1620	FIC1/1617
PART NO.	915199	915166	915616	915615	915617

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KEY ILLUSTRATIONS ARE NOT ACTUAL SIZE.

MISC. KEY BLANKS & PADLOCKS

CAR MAKE	TRIMARK-RV'S				
INDUSTRY NO.	TM15/1623				
PART NO.	915620				

MASTER® SUPER SECURITY LAMINATED PADLOCKS

Most popular padlock sold.

- **Double locking** - case hardened steel shackle.
- **Protective bumper** - minimizes marring and scratching.
- **Pick resistant** - 4 pin tumbler, with mushroom shaped pins - solid brass, and bronze springs.
- **Durable** - laminated steel construction.
- **Extra rust protection** - steel plates individually galvanized and chromated.
- **2 keys** - supplied with each lock.
- **Choice of keying** - available keyed alike or different, see chart below.

KEYED DIFFERENT PART NUMBER	KEYED ALIKE PART NUMBER	LOCK SIZE DIA.	SHACKLE DIMENSIONS DIAMETER	VERTICAL CLEARANCE	HORIZONTAL CLEARANCE	MASTER NUMBER
915301	**915302**	1-1/2	9/32	5/8	3/4	3
915303	**915304**	2	3/8	1	15/16	5

MASTER® LONG SHACKLE SUPER SECURITY LAMINATED PADLOCKS

- **Double locking** - case hardened steel shackle.
- **Protective bumper** - minimizes marring and scratching.
- **Pick resistant** - 4 pin tumbler, with mushroom shaped pins - solid brass, and bronze springs.
- **Durable** - laminated steel construction.
- **Extra rust protection** - steel plates individually galvanized and chromated.
- **2 keys** - supplied with each lock.

KEYED ALIKE PART NUMBER	LOCK SIZE DIA.	SHACKLE DIMENSIONS DIAMETER	VERTICAL CLEARANCE	HORIZONTAL CLEARANCE	MASTER NUMBER
915351	1-1/2	9/32	5/8	2	3
915353	2	3/8	15/16	2-1/2	5

MASTER® SOLID BRASS PADLOCKS

Provides maximum corrosion protection for outdoor use.

- **Corrosion resistant** - solid brass body and hardened steel shackle.
- **Pick resistant** - 4 pin tumbler, with mushroom shaped pins and bronze springs.
- **Double bolted shackle** - boats, outdoor lockers, refineries, gates, dairies, any area where rust, corrosion, high humidity and atmosphere pollution are a problem.
- **2 keys** - supplied with each lock.
- **Choice of keying** - available keyed alike or different, see chart below.

KEYED DIFFERENT PART NUMBER	KEYED ALIKE PART NUMBER	LOCK SIZE DIA.	SHACKLE DIMENSIONS DIAMETER	VERTICAL CLEARANCE	HORIZONTAL CLEARANCE	MASTER NUMBER
915309	**915310**	1-9/16	1/4	13/16	7/8	140

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PADLOCKS & ACCESSORIES and LOCK RELATED ITEMS

MASTER® HIGH SECURITY SHROUDED SOLID STEEL PADLOCK

Outstanding protection against physical attacks.

- **Greatest physical security available:**
  Heavy steel bodies
  Hardened steel and boron alloy shackles for superior cut resistance
  Dual deadbolt locking for extreme resistance to prying
  Shrouded shackles protects against bolt cutters
- **Greatest key security available:**
  5 pin tumbler cylinders provide tens of thousands of key changes
  Special spool pin tumblers are virtually impossible to pick
- Chrome rustproofing provides longer life.
- Rekeyable - replaceable cylinder and shackle.

KEYED DIFFERENT PART NUMBER	KEYED ALIKE PART NUMBER	LOCK SIZE DIA.	SHACKLE DIMENSIONS DIAMETER	VERTICAL CLEARANCE	HORIZONTAL CLEARANCE	MASTER NUMBER
915354	**915355**	1-3/4	5/16	1-3/16	29/32	7045

MULTI-PURPOSE UTILITY CAM LOCKS

- **Used for wood or metal cabinets, chest drawers, cash boxes, racks, RV locks.**
- **Includes all necessary parts.**
- **E-Z instructions make installation a snap.**
- **2 brass keys supplied with each lock.**
- **Stainless steel finish.**
- **4 spline - key removable in locked or unlocked position with 90° or 180° stop.**

Part No. 915326

MASTER® SAFETY HASP

Designed to provide the ultimate protection when used with our padlocks.

- **Galvanized and chromated.**
- **Versatile.**
- **Rugged.**
- **Case hardened steel construction.**

PART NUMBER	TOTAL LENGTH	WIDTH	MASTER NUMBER
915330	3-1/2	1-3/16	703
915331	4-1/2	1-7/8	704

MASTER® SAFETY LOCKOUT HASP

Lockout by up to 6 workers at each lockout point.

- **Keeps equipment inoperative while repairs or adjustments are made.**
- **Attach device to energy disconnect switch.**
- **Control cannot be turned on until last worker's padlock is removed.**
- **Insulated with bright vinyl coating.**
- **Heavy gauge steel resists prying.**
- **1" diameter jaws.**

Part No. 915334 2

LOCK EASE Graphited Lock Fluid

- **Seals out moisture, protects against freeze-up.**
- **Prevents sticking, guards against rust & corrosion**
- **Graphite formula will not gum up.**
- **Leaves a penetrating, protective coating.**

Part No. 211343
3.5 oz. net wt. Aerosol

LOCK DE-ICER

- **Thaws frozen locks quickly and easily.**
- **Special tip fits into key holes. Simply squirt into lock.**

Part No. 211344
1/2 fl. oz.

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LOCK RELATED ITEMS & KEY BLANK INTERCHANGE

THE BIGEASY™

SAFE...FAST...EASY

- **No danger of airbag activation or disconnected door linkages.**
- **The BigEasy™ tool kit enables you to actuate the door handle, manual lock button, or electric lock button on more than 98% of all cars and trucks.**
- **With every movement in full view of the technician, unlocking cars is quick and so easy...you don't need to train your people.**
- **The smooth, plastic wedge insert is safe...no risk of damage to the door or weatherstripping.**

Complete Lockout Tool Kit

Unlocks all cars for under 1/2 the price of more complicated kits!

Part No. 232900
The BigEasy™
Complete Lockout Tool Kit

KEY BLANK INTERCHANGE

INDUSTRY NUMBER	PART NUMBER	INDUSTRY NUMBER	PART NUMBER	INDUSTRY NUMBER	PART NUMBER	INDUSTRY NUMBER	PART NUMBER	INDUSTRY NUMBER	PART NUMBER
AR1	**915175**	B96	**915562**	H70	**915507**	MZ13	**915165**	WR2	**915484**
AR4	**915470**	B102	**915583**	H70-P	**915507**	MZ13-P	**915451**	WR3	**915183**
B1	**915512**	B102-P	**915584**	H75	**915498**	MZ16-P	**915522**	WR5	**915485**
B44	**915101**	B106-P	**915638**	H75-P	**915498**	NA6	**915190**	Y1	**915184**
B44-P	**915495**	B110-P	**915646**	H78	**915565**	RA3	**915428**	Y2	**915644**
B44-GP	**915419**	C1098JD	**915603**	H86	**915625**	RA4	**915121**	Y6	**915598**
B45	**915102**	CG1	**915471**	HD91-P	**915448**	RA4 INT	**915409**	Y9	**915543**
B45-P	**915496**	CG16	**915170**	HD103	**915517**	RA4 MACK	**915425**	Y11	**915197**
B45-GP	**915421**	CG22	**915533**	HD103-P	**915517**	RA4 OEM	**915200**	Y12	**915198**
B48	**915105**	CO1	**915534**	IN2	**915538**	RO1	**915542**	Y13	**915486**
B48-P	**915413**	CO26	**915536**	IN3	**915185**	RO4	**915166**	Y14	**915199**
B49-P	**915417**	CO87	**915472**	IN4	**915539**	RU45	**915478**	Y152-CHY	**915402**
B5	**915427**	CO106	**915473**	IN8	**915474**	RU46	**915479**	Y154-P	**915489**
B50	**915107**	DA22	**915125**	IN18	**915186**	S4	**915480**	Y157	**915567**
B50-P	**915410**	DA25	**915568**	K1994	**915426**	S22	**915481**	Y157-P	**915509**
B52	**915109**	DA31-P	**915514**	KW1	**915178**	SC1	**915180**	Y159-P	**915548**
B65	**915157**	DA32-P	**915515**	KW10	**915636**	SC4	**915643**	Y163PJP	**915629**
B69	**915158**	DA34-P	**915546**	KW11	**915637**	SC6	**915192**	62DT	**915125**
B78	**915463**	DC3-P	**915443**	L1	**915187**	SC8	**915482**	1098M	**915512**
B79	**915464**	DE6	**915176**	M1	**915179**	SC22	**915193**	1098PB	**915511**
B82-P	**915501**	EA27	**915177**	M2	**915188**	SE1	**915181**	C1098JD	**915603**
B83	**915576**	ES9	**915537**	M4	**915540**	SS4	**915616**	1167FD	**915405**
B86	**915529**	FIC1	**915617**	M11	**915541**	T7	**915194**	1617	**915617**
B86-P	**915501**	H50	**915111**	M13	**915639**	TM15	**915620**	1620	**915615**
B88-P	**915497**	H51	**915112**	M16	**915633**	TR33-P	**915453**	1623	**915620**
B89	**915576**	H54	**915432**	M20	**915641**	TR40	**915456**	1626	**915616**
B89-P	**915577**	H60	**915490**	MIT1	**915574**	TR44-P	**915526**	1641	**915649**
B91	**915560**	H67	**915506**	MIT1-P	**915468**	V35-P	**915458**		
B91-P	**915578**	H67-P	**915506**	MIT6-P	**915588**	WK2	**915182**		

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E-Z PAK FASTENERS

E-Z PAK AUTOMOTIVE ASSORTMENTS

Includes a handy measuring chart with each cabinet for measuring diameter and length.

SAVE TIME - SAVE MONEY

EVERY E-Z PAK HAS ONE COST... THE SAME COST.

- **Rack can hang on wall or stand on w orkbench.**
- **All Paks are the same size for orderly stocking.**
- **Makes it easy to select the pr oper fastener.**
- **Refills are always available.**
- **Low cost per pak means lo wer investment.**
- **Over 200 items for you to select from.**
- **Foolproof reorder system takes up none of y our valuable time.**
- **Your sales agent will check your stock.**

THE FASTENER YOU NEED... WHEN YOU NEED IT

THE E-Z PAK LABEL MAKES SELECTION, PRICING AND RE-ODERING *E-Z*

ITEM NAME in bold type
DESCRIPTION
SIZE of item in big bold letters; easy to see!
PICTURE of item (in case you left your glasses at home)
A **PRICE** you can charge at a nice profit.
STOCK NO. for easy reorder; saves time too.

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E-Z PAK FASTENER ASSORTMENTS

GRADE 5 BASIC E-Z PAK ASSORTMENT

Includes the 60 most frequently used fasteners and grease fittings and a sturdy metal cabinet.

Part No. 50101
2412 pieces
60 items
12054 cabinet

Protected by LUSTERPLATE™ against rust & corrosion

ASSORTMENT CONTAINS

CAPSCREWS

SIZE INCHES	USS PART NO.	SAE PART NO.
1/4 x 1/2	**50103**	**50155**
1/4 x 1	**50105**	**50157**
1/4 x 1-1/2	**50107**	**50159**
1/4 x 2	**50109**	**50161**
5/16 x 3/4	**50115**	**50167**
5/16 x 1	**50116**	**50168**
5/16 x 1-1/2	**50118**	**50170**
5/16 x 2	**50120**	**50172**
5/16 x 3	**50124**	**50176**
3/8 x 3/4	**50125**	**50177**
3/8 x 1	**50126**	**50178**
3/8 x 1-1/2	**50128**	**50180**
3/8 x 2	**50130**	**50182**

HEX NUTS

SIZE INCHES	USS PART NO.	SAE PART NO.
1/4	**501117**	**501122**
5/16	**501118**	**501123**
3/8	**501119**	**501124**

WASHERS

SIZE INCHES	LOCK PART NO.	FLAT SAE PART NO.
3/16	**501127**	**---**
1/4	**501128**	**501135**
5/16	**501130**	**501136**
3/8	**501131**	**501137**

SHEET METAL SCREWS
SLOTTED PAN HEAD

DIAMETER	LENGTH-INCHES	PART NO.
No. 8	1/2	**501163**
No. 8	1	**501165**
No. 10	3/4	**501169**
No. 12	1	**501177**

STOVE BOLTS
ROUND HEAD SLOTTED w/NUTS

DIAMETER INCHES	LENGTH INCHES	PART NO.
3/16	1/2	**501182**
3/16	1	**501184**
3/16	1-1/2	**501186**
3/16	2	**501188**
1/4	1/2	**501189**
1/4	1	**501191**
1/4	1-1/2	**501193**

COTTER PINS

DIAMETER INCHES	LENGTH INCHES	PART NO.
1/16	1	**501141**
3/32	1	**501142**
1/8	1-1/2	**501146**
5/32	1-1/2	**501148**

BATTERY BOLT w/NUT

DIAMETER INCHES	LENGTH INCHES	PART NO.
5/16 -18	1-1/4	**501151**

LICENSE PLATE BOLT w/ SQ. NUT

DIAMETER INCHES	LENGTH INCHES	PART NO.
1/4-20	1/2	**501205**

GREASE FITTINGS
with BALL CHECK

THREAD/ STYLE	FITTING TYPE	PART NO.
1/4” taper	straight	**501155**
1/4” taper	45°	**501156**
1/8” pipe	straight	**501152**
1/8” pipe	45°	**501153**

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E-Z PAK FASTENER ASSORTMENTS

GRADE 5 SUPPLEMENTARY E-Z PAK ASSORTMENT

Includes a wider range of sizes in diameters up to 1/2" and lengths to 3" of the 60 most frequently used fasteners and a sturdy metal cabinet.

5

Part No. 50102
1075 pieces
56 items
12054 cabinet

Protected by LUSTERPLATE™ against rust & corrosion

ASSORTMENT CONTAINS

CAPSCREWS

SIZE INCHES	USS PART NO.	SAE PART NO.
1/4 x 2-1/2	**50111**	**50163**
1/4 x 3	**50113**	**50165**
5/16 x 2-1/2	**50122**	**50174**
3/8 x 2-1/2	**50132**	**50184**
3/8 x 3	**50134**	**50186**
7/16 x 3/4	**50135**	**50187**
7/16 x 1	**50136**	**50188**
7/16 x 1-1/2	**50138**	**50190**
7/16 x 2	**50140**	**50192**
7/16 x 2-1/2	**50142**	**50194**
7/16 x 3	**50144**	**50196**
1/2 x 1	**50146**	**50198**
1/2 x 1-1/2	**50148**	**501100**
1/2 x 2	**50150**	**501102**
1/2 x 2-1/2	**50152**	**501104**
1/2 x 3	**50154**	**501106**

HEX NUTS

SIZE INCHES	USS PART NO.	SAE PART NO.
7/16	**501120**	**501125**
1/2	**501121**	**501126**

WASHERS

SIZE INCHES	LOCK PART NO.	FLAT SAE PART NO.
7/16	**501132**	**501138**
1/2	**501133**	**501139**

SHEET METAL SCREWS
SLOTTED PAN HEAD

DIAMETER	LENGTH INCHES	PART NO.
No. 8	1-1/4	**501166**
No. 8	1-1/2	**501167**
No. 10	1	**501170**
No. 10	1-1/4	**501171**
No. 10	1-3/4	**501173**
No. 10	2	**501174**
No. 12	1-1/2	**501178**
No. 14	3/4	**501179**
No. 14	1-1/4	**501180**
No. 14	2	**501181**

STOVE BOLTS
ROUND HEAD SLOTTED w/NUTS

DIAMETER	LENGTH INCHES	PART NO.
1/4-20	2	**501195**
1/4-20	3	**501197**

COTTER PINS

DIAMETER INCHES	LENGTH INCHES	PART NO.
3/32	1-1/2	**501143**
3/32	2	**501144**
1/8	2	**501147**
5/32	2	**501150**

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E-Z PAK FASTENER ASSORTMENTS

GRADE 8 E-Z PAK ASSORTMENT

Includes the 60 most frequently used fasteners and a sturdy metal cabinet.

Part No. 501055
941 pieces
60 items
12054 cabinet

Protected by LUSTERPLATE™ against rust & corrosion

ASSORTMENT CONTAINS

CAPSCREWS

SIZE INCHES	USS PART NO.	SAE PART NO.
1/4 x 1	**50203**	**50252**
1/4 x 1-1/2	**50205**	**50254**
1/4 x 2	**50207**	**50256**
5/16 x 1	**50212**	**50261**
5/16 x 1-1/2	**50214**	**50263**
5/16 x 2	**50216**	**50265**
5/16 x 2-1/2	**50217**	**50266**
3/8 x 1	**50220**	**50269**
3/8 x 1-1/2	**50222**	**50271**
3/8 x 2	**50224**	**50273**
3/8 x 2-1/2	**50225**	**50274**
3/8 x 3	**50226**	**50275**
7/16 x 1-1/2	**50230**	**50279**
7/16 x 2	**50232**	**50281**
7/16 x 2-1/2	**50233**	**50282**
7/16 x 3	**50234**	**50283**
1/2 x 1-1/2	**50238**	**50287**
1/2 x 2	**50240**	**50289**
1/2 x 2-1/2	**50241**	**50290**
1/2 x 3	**50242**	**50291**

HEX NUTS

SIZE INCHES	USS PART NO.	SAE PART NO.
1/4	**501207**	**501212**
5/16	**501208**	**501213**
3/8	**501209**	**501214**
7/16	**501210**	**501215**
1/2	**501211**	**501216**

WASHERS

SIZE INCHES	LOCK PART NO.	FLAT SAE PART NO.
1/4	**501217**	**501222**
5/16	**501218**	**501223**
3/8	**501219**	**501224**
7/16	**501220**	**501225**
1/2	**501221**	**501226**

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E-Z PAK FASTENERS

E-Z PAK FASTENER REFILLS

Protected by LUSTERPLATE™ against rust & corrosion

– CAPSCREWS • USS • HEX HEAD –

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
1/4 x 1/2	50103	50201
1/4 x 3/4	50104	50202
1/4 x 1	50105	50203
1/4 x 1-1/4	50106	50204
1/4 x 1-1/2	50107	50205
1/4 x 1-3/4	50108	50206
1/4 x 2	50109	50207
1/4 x 2-1/2	50111	50208
1/4 x 3	50113	50209
5/16 x 1/2	50114	50210
5/16 x 3/4	50115	50211
5/16 x 1	50116	50212
5/16 x 1-1/4	50117	50213
5/16 x 1-1/2	50118	50214

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
5/16 x 1-3/4	50119	50215
5/16 x 2	50120	50216
5/16 x 2-1/2	50122	50217
5/16 x 3	50124	50218
3/8 x 3/4	50125	50219
3/8 x 1	50126	50220
3/8 x 1-1/4	50127	50221
3/8 x 1-1/2	50128	50222
3/8 x 1-3/4	50129	50223
3/8 x 2	50130	50224
3/8 x 2-1/2	50132	50225
3/8 x 3	50134	50226
7/16 x 3/4	50135	50227
7/16 x 1	50136	50228

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
7/16 x 1-1/4	50137	50229
7/16 x 1-1/2	50138	50230
7/16 x 1-3/4	50139	50231
7/16 x 2	50140	50232
7/16 x 2-1/2	50142	50233
7/16 x 3	50144	50234
1/2 x 3/4	50145	50235
1/2 x 1	50146	50236
1/2 x 1-1/4	50147	50237
1/2 x 1-1/2	50148	50238
1/2 x 1-3/4	50149	50239
1/2 x 2	50150	50240
1/2 x 2-1/2	50152	50241
1/2 x 3	50154	50242

– CAPSCREWS • SAE • HEX HEAD –

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
1/4 x 1/2	50155	50250
1/4 x 3/4	50156	50251
1/4 x 1	50157	50252
1/4 x 1-1/4	50158	50253
1/4 x 1-1/2	50159	50254
1/4 x 1-3/4	50160	50255
1/4 x 2	50161	50256
1/4 x 2-1/2	50163	50257
1/4 x 3	50165	50258
5/16 x 1/2	50166	50259
5/16 x 3/4	50167	50260
5/16 x 1	50168	50261
5/16 x 1-1/4	50169	50262
5/16 x 1-1/2	50170	50263

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
5/16 x 1-3/4	50171	50264
5/16 x 2	50172	50265
5/16 x 2-1/2	50174	50266
5/16 x 3	50176	50267
3/8 x 3/4	50177	50268
3/8 x 1	50178	50269
3/8 x 1-1/4	50179	50270
3/8 x 1-1/2	50180	50271
3/8 x 1-3/4	50181	50272
3/8 x 2	50182	50273
3/8 x 2-1/2	50184	50274
3/8 x 3	50186	50275
7/16 x 3/4	50187	50276
7/16 x 1	50188	50277

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
7/16 x 1-1/4	50189	50278
7/16 x 1-1/2	50190	50279
7/16 x 1-3/4	50191	50280
7/16 x 2	50192	50281
7/16 x 2-1/2	50194	50282
7/16 x 3	50196	50283
1/2 x 3/4	50197	50284
1/2 x 1	50198	50285
1/2 x 1-1/4	50199	50286
1/2 x 1-1/2	501100	50287
1/2 x 1-3/4	501101	50288
1/2 x 2	501102	50289
1/2 x 2-1/2	501104	50290
1/2 x 3	501106	50291

– HEX NUTS USS –

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
1/4	501117	501207
5/16	501118	501208
3/8	501119	501209
7/16	501120	501210
1/2	501121	501211

– HEX NUTS SAE –

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
1/4	501122	501212
5/16	501123	501213
3/8	501124	501214
7/16	501125	501215
1/2	501126	501216

– LOCK WASHERS –

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
3/16	501127	---
1/4	501128	501217
5/16	501130	501218
3/8	501131	501219
7/16	501132	501220
1/2	501133	501221

– FLAT WASHERS SAE –

SIZE INCHES	GRADE 5 PART NO.	GRADE 8 PART NO.
3/16	501134	---
1/4	501135	501222
5/16	501136	501223
3/8	501137	501224
7/16	501138	501225
1/2	501139	501226

– SHEET METAL SCREWS –
SLOTTED PAN HEAD

DIAMETER	LENGTH INCHES	PART NO.
4	1/2	501158
4	3/4	501159
6	1/2	501160
6	3/4	501161
6	1	501162
8	1/2	501163
8	3/4	501164
8	1	501165

DIAMETER	LENGTH INCHES	PART NO.
8	1-1/4	501166
8	1-1/2	501167
10	1/2	501168
10	3/4	501169
10	1	501170
10	1-1/4	501171
10	1-1/2	501172
10	1-3/4	501173

DIAMETER	LENGTH INCHES	PART NO.
10	2	501174
12	1/2	501175
12	3/4	501176
12	1	501177
12	1-1/2	501178
14	3/4	501179
14	1-1/4	501180
14	2	501181

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E-Z PAK FASTENERS

E-Z PAK FASTENER REFILLS

– SHEET METAL SCREWS –
PHILLIPS PAN HEAD

DIAMETER	LENGTH INCHES	PART NO.
8	3/4	**50292**
10	3/4	**50293**
12	3/4	**50294**

– STOVE BOLTS with NUTS –
ROUND HEAD SLOTTED

DIAMETER	LENGTH INCHES	PART NO.
3/16	1/2	**501182**
3/16	3/4	**501183**
3/16	1	**501184**
3/16	1-1/4	**501185**
3/16	1-1/2	**501186**
3/16	1-3/4	**501187**

DIAMETER	LENGTH INCHES	PART NO.
3/16	2	**501188**
1/4	1/2	**501189**
1/4	3/4	**501190**
1/4	1	**501191**
1/4	1-1/4	**501192**

DIAMETER	LENGTH INCHES	PART NO.
1/4	1-1/2	**501193**
1/4	1-3/4	**501194**
1/4	2	**501195**
1/4	2-1/2	**501196**
1/4	3	**501197**

– GREASE FITTINGS –
with BALL CHECK

THREAD/ STYLE	FITTING TYPE	PART NO.
1/8" pipe	straight	**501152**
1/8" pipe	45°	**501153**
1/8" pipe	90°	**501154**
1/4" taper	straight	**501155**
1/4" taper	45°	**501156**
1/4" taper	90°	**501157**

– COTTER PINS –

DIAMETER	LENGTH INCHES	PART NO.
1/16	3/4	**501140**
1/16	1	**501141**
3/32	1	**501142**
3/32	1-1/2	**501143**
3/32	2	**501144**

DIAMETER	LENGTH INCHES	PART NO.
1/8	1	**501145**
1/8	1-1/2	**501146**
1/8	2	**501147**
5/32	1-1/2	**501148**
5/32	2	**501150**

– LICENSE PLATE BOLT –
with SQUARE NUT

DIAMETER	LENGTH INCHES	PART NO.
1/4-20	1/2	**501205**

– BATTERY BOLT –
with NUT

DIAMETER	LENGTH INCHES	PART NO.
5/16-18	1-1/4	**501151**

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Part No. 501051

FREE METRIC INFORMATION KIT

- **Metric Bolt 'n Nut Gauge**
- **Metrics for Beginners - an easy to understand illustrated guide for the unfamiliar.**
- **Metric System Guide - essentials of measurement, conversion factors.**
- **Fraction / Metric Conversion Chart.**

ASSORTMENT CONTAINS

Protected by LUSTERPLATE™ against rust & corrosion

CAPSCREWS

DIN 931 SIZE	COURSE THREAD PITCH	DIN 933 PART NO.
4 x 20mm	.70	**532102**
6 x 10mm	1.00	**532108**
6 x 16mm	1.00	**532109**
6 x 20mm	1.00	**532110**
6 x 30mm	1.00	**532112**
8 x 20mm	1.25	**532116**
8 x 30mm	1.25	**532118**
8 x 50mm	1.25	**532120**
10 x 20mm	1.50	**532122**
10 x 30mm	1.50	**532124**
12 x 30mm	1.75	**532129**
12 x 40mm	1.75	**532130**

FLAT WASHERS

DIN 125

SIZE	PART NO.
4mm	**532171**
6mm	**532173**
8mm	**532174**
10mm	**532175**
12mm	**532176**

CAPSCREWS

DIN 960 SIZE	FINE THREAD PITCH	DIN 961 PART NO.
8 x 16mm	1.00	**532201**
8 x 25mm	1.00	**532203**
8 x 30mm	1.00	**532205**
10 x 16mm	1.00	**532207**
10 x 20mm	1.00	**532208**
10 x 30mm	1.00	**532210**
10 x 40mm	1.00	**532212**
12 x 25mm	1.50	**532221**
12 x 35mm	1.50	**532223**
12 x 40mm	1.50	**532224**

LOCK WASHERS

DIN 127

SIZE	PART NO.
4mm	**532177**
6mm	**532179**
8mm	**532180**
10mm	**532181**
12mm	**532182**

HEX NUTS

DIN 934 COURSE THREAD

SIZE	PITCH	PART NO.
4mm	.70	**532151**
6mm	1.00	**532153**
8mm	1.25	**532155**
10mm	1.50	**532156**
12mm	1.75	**532157**

HEX NUTS

DIN 934 FINE THREAD

SIZE	PITCH	PART NO.
8mm	1.00	**532240**
10mm	1.00	**532241**
12mm	1.50	**532243**

OVER 150 REFILLS AVAILABLE

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METRIC E-Z PAK FASTENERS

METRIC E-Z PAK FASTENER REFILLS

– CAP SCREWS –
DIN 931 - COARSE THREAD - DIN 933

SIZE	PITCH	PART NO.
4mm x 16mm	.70	532101
4mm x 20mm	.70	532102
5mm x 10mm	.80	532103
5mm x 16mm	.80	532104
5mm x 20mm	.80	532105
5mm x 25mm	.80	532106
5mm x 30mm	.80	532107
6mm x 10mm	1.00	532108
6mm x 16mm	1.00	532109
6mm x 20mm	1.00	532110
6mm x 25mm	1.00	532111
6mm x 30mm	1.00	532112
6mm x 40mm	1.00	532113

SIZE	PITCH	PART NO.
7mm x 10mm	1.00	532228
7mm x 12mm	1.00	532229
7mm x 20mm	1.00	532230
7mm x 25mm	1.00	532231
7mm x 30mm	1.00	532232
8mm x 10mm	1.25	532114
8mm x 16mm	1.25	532115
8mm x 20mm	1.25	532116
8mm x 25mm	1.25	532117
8mm x 30mm	1.25	532118
8mm x 40mm	1.25	532119
8mm x 50mm	1.25	532120
10mm x 16mm	1.50	532121

SIZE	PITCH	PART NO.
10mm x 20mm	1.50	532122
10mm x 25mm	1.50	532123
10mm x 30mm	1.50	532124
10mm x 40mm	1.50	532125
10mm x 50mm	1.50	532126
12mm x 20mm	1.75	532127
12mm x 25mm	1.75	532128
12mm x 30mm	1.75	532129
12mm x 40mm	1.75	532130
14mm x 30mm	2.00	532159
14mm x 40mm	2.00	532163
14mm x 50mm	2.00	532164

– CAP SCREWS –
DIN 960 - FINE THREAD - DIN 961

SIZE	PITCH	PART NO.
8mm x 16mm	1.00	532201
8mm x 20mm	1.00	532202
8mm x 25mm	1.00	532203
8mm x 30mm	1.00	532204
8mm x 35mm	1.00	532205
8mm x 40mm	1.00	532206
10mm x 16mm	1.00	532207
10mm x 20mm	1.00	532208
10mm x 25mm	1.00	532209
10mm x 30mm	1.00	532210

SIZE	PITCH	PART NO.
10mm x 35mm	1.00	532211
10mm x 40mm	1.00	532212
10mm x 50mm	1.00	532213
10mm x 16mm	1.25	532214
10mm x 20mm	1.25	532215
10mm x 25mm	1.25	532216
10mm x 30mm	1.25	532217
10mm x 35mm	1.25	532218
10mm x 40mm	1.25	532219
10mm x 50mm	1.25	532220

SIZE	PITCH	PART NO.
12mm x 25mm	1.50	532221
12mm x 30mm	1.25	532270
12mm x 30mm	1.50	532222
12mm x 35mm	1.50	532223
12mm x 40mm	1.25	532271
12mm x 40mm	1.50	532224
14mm x 35mm	1.50	532225
14mm x 40mm	1.50	532226
14mm x 50mm	1.50	532227

– HEX NUTS –
DIN 934 - COARSE THREAD

SIZE	PITCH	PART NO.
3mm	.60	532150
4mm	.70	532151
5mm	.80	532152
6mm	1.00	532153
7mm	1.00	532247
8mm	1.25	532155
10mm	1.50	532156
12mm	1.75	532157
14mm	2.00	532158

– FLAT WASHERS –
DIN 125

SIZE	PART NO.
4mm	532171
5mm	532172
6mm	532173
7mm	532238
8mm	532174
10mm	532175
12mm	532176
14mm	532235

– SPLIT LOCK - WASHERS
DIN 127

SIZE	PART NO.
4mm	532177
5mm	532178
6mm	532179
7mm	532248
8mm	532180
10mm	532181
12mm	532182
14mm	532236

– HEX NUTS –
DIN 934 - FINE THREAD

SIZE	PITCH	PART NO.
8mm	1.00	532240
10mm	1.00	532241
10mm	1.25	532242

SIZE	PITCH	PART NO.
12mm	1.25	532272
12mm	1.50	532243
14mm	1.50	532244

– NYLON LOCK NUTS –
DIN 985 - COARSE THREAD

SIZE	PITCH	PART NO.
4mm	.70	532233
5mm	.80	532234
6mm	1.00	532160
7mm	1.00	532245
8mm	1.25	532161
10mm	1.50	532162
14mm	2.00	532246

- SPRING LOCK - WASHERS
DIN 137

SIZE	PART NO.
4mm	532183
5mm	532184
6mm	532185
8mm	532186
10mm	532187
12mm	532188
14mm	532237

– COTTER PINS –
DIN 94

SIZE	PART NO.
2mm x 30mm	532190
3mm x 45mm	532191
4mm x 40mm	532192
5mm x 50mm	532193

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METRIC E-Z PAK FASTENERS

METRIC E-Z PAK FASTENER REFILLS

Protected by LUSTERPLATE™ against rust & corrosion

– MACHINE SCREWS –
DIN 84 - PAN HEAD

DIAMETER	LENGTH	PART NO.
3mm	6mm	**532250**
3mm	10mm	**532251**
3mm	16mm	**532252**
3mm	20mm	**532253**
4mm	6mm	**532254**
4mm	10mm	**532255**
4mm	16mm	**532256**
4mm	20mm	**532257**
4mm	25mm	**532258**
5mm	6mm	**532259**
5mm	10mm	**532260**
5mm	16mm	**532261**
5mm	20mm	**532262**
5mm	25mm	**532263**
5mm	30mm	**532264**
6mm	10mm	**532265**
6mm	16mm	**532266**
6mm	20mm	**532267**
6mm	25mm	**532268**
6mm	30mm	**532269**

– MACHINE SCREWS –
DIN 963 - FLAT HEAD

SIZE	PITCH	PART NO.
3mm	6mm	**532131**
3mm	10mm	**532132**
3mm	16mm	**532133**
3mm	20mm	**532134**
4mm	6mm	**532135**
4mm	10mm	**532136**
4mm	16mm	**532137**
4mm	20mm	**532138**
4mm	25mm	**532139**
5mm	10mm	**532140**
5mm	16mm	**532141**
5mm	20mm	**532142**
5mm	25mm	**532143**
5mm	30mm	**532144**
6mm	10mm	**532145**
6mm	16mm	**532146**
6mm	20mm	**532147**
6mm	25mm	**532148**
6mm	30mm	**532149**

– WING NUTS –
DIN 315 - COARSE THREAD

SIZE	PITCH	PART NO.
5mm	.80	**532165**
6mm	1.00	**532166**

– GREASE FITTINGS –
DIN 71412

TYPE	SIZE	PITCH	PART NO.
Straight	6mm	1.00	**532167**
45°	6mm	1.00	**532170**
90°	6mm	1.00	**532189**
Straight	8mm	1.00	**532194**
45°	8mm	1.00	**532195**
90°	8mm	1.00	**532196**
Straight	10mm	1.00	**532197**
45°	10mm	1.00	**532198**
90°	10mm	1.00	**532199**

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A - FASTENERS & HARDWARE

A10	CAP SCREWS	A10
A11	NUTS	A11
A12	BOLTS	A12
A13	NON-FERROUS	A13
A14	WASHERS	A14
A15	SCREWS	A15
A16	METRIC	A16
A17	THREAD REPAIR	A17
A18	PINS, CLIPS, KEYSTOCK, SPRINGS	A18
A19	RIVETS	A19
A20	CHAIN & CABLE	A20
A21	BUILDING MAINTENANCE	A21

A- FASTENERS & HARDWARE

A10-CAP SCREWS

Button Head Socket A10-16
Cap Screw Assortments A10-2-5
Flat Head Cap Screws A10-10
Flat Head Socket Cap Screws . . . A10-14
Hex Head Cap Screws A10-6-10
Socket Head Cap Screws A10-10-13
Socket Head Shoulder Screws . . . A10-15
Tamperproof Socket A10-16-17

A11-NUTS

A194-2H Heavy A11-7
Acorn A11-8
Barrel A11-10
Cage Nuts, "J" & Square A11-10
Cap A11-8
Castle A11-8
Extruded A11-10
Flange A11-8
Galvanized A11-6
Heavy A11-6
Hex Finished Nuts A11-1-3
Hi Nuts A11-6
Jam A11-7
Keps A11-7
Left Hand Thread Hex Nuts A11-6
Machine Screw A11-7
Nylon Insert Locknuts A11-4-5, 9
Pal A11-11
Prevailing Torque Locknuts A11-3
Push A11-11
Quick Reference Chart A11-1
Slotted A11-7
Speed Nut, Flat, "J", Tubular, "U" . A11-10
Square A11-8
Tee A11-9
Vandlgard A11-9
Well A11-9
Wood Inserts A11-9
Wing A11-8-9

A12-BOLTS

Carriage A12-2-4
Countr-Bor A12-5
Double End Studs A12-11
Elevator A12-1
Eye A12-8-9
Flange A12-5-6
Forming Rod A12-10
Fully Threaded Studs A12-10
Hanger A12-9
"J" A12-9
Plow A12-1
Rod Couplings A12-11
Shaker Screen A12-2
Spring Center A12-7
Step A12-1
Stove A12-7-8
Studs A12-10-11
Tap A12-4-5
Threaded Rod A12-10
"U" & Square A12-9
Unthreaded Rod A12-10

A13-NON-FERROUS

Cap Screws
Brass A13-19
Silicon Bronze A13-21
18-8 Stainless Steel A13-1-2
316 Stainless Steel A13-3
Carriage Bolts, Stainless Steel A13-6
Clevis Pins, Stainless Steel A13-16
Cotter Pins, Stainless Steel A13-17
Countersunk
18-8 Stainless Steel A13-9
Brass A13-20
Fender Washers, Stainless Steel . . . A13-9
Flat Washers
18-8 Stainless Steel A13-8
316 Stainless Steel A13-9
Brass A13-20
Bronze A13-21
Nylon A13-22
Food Processing & Service SS
Hardware Assortment A13-3
Hair Pin Cotters, Stainless Steel . . A13-16
Hex Nuts
18-8 Stainless Steel A13-6
316 Stainless Steel A13-8
Acorn, Stainless Steel A13-8
Brass A13-20
Bronze A13-21
Cap, Stainless Steel A13-8
Heavy, Stainless Steel A13-7
Hi Brass A13-20
Jam, Stainless Steel A13-6-7
Machine Screw, Brass A13-20
Machine Screw, Stainless Steel . . . A13-7
Nylon A13-22
Nylon Insert Locknut, Stain. Steel . A13-7
Keystock, Stainless Steel A13-6
Lag Screws, Stainless Steel A13-6
Lock Washers, Split, Stain. Steel . . . A13-9
Bronze A13-21
Lock Washers, Toothed Stain. Steel A13-8
Machine Screws, Brass A13-18-19
Machine Screws, Nylon A13-21-22
Machine Screws, Stain. Steel . . A13-13-16
Rod Coupling Nuts, Stain. Steel . . . A13-10
Sheet Metal Screws, Stainless
Steel A13-11-13
Socket Head Cap Screws, Stainless
Steel A13-4-5
TEKS, Stainless Steel A13-10
Threaded Rod, Brass A13-19
Stainless Steel A13-9
Thumb Screws, Stainless Steel . . . A13-16
U-Bolts, Stainless Steel A13-16
Wing Nuts, Stainless Steel A13-8
Wood Screws, Brass A13-17-18
Wood Screws, Stainless Steel . . A13-10-11

A14-WASHERS

Bowed A14-3
Cam-Lock A14-5
Countersunk Tooth Lock A14-5
Deck A14-6
External Tooth Lock A14-5
Fender A14-3
Fiber A14-6
Finishing A14-3
Flat Washers A14-1-2
Galvanized A14-4
Internal Tooth Lock A14-5
Machine Screw A14-3
Machinery Bushing A14-5
Nylon A14-3
Oversized A14-3
Sealing A14-6
Split Lock A14-4
Spring A14-3
Square Beveled A14-2
Toothed Lock A14-5

A15-SCREWS

Drill N' Tap A15-7-9
Drill Point A15-9
Dry Wall A15-19
Floorboard, Flat Torx & Type "F" . A15-18
Lag A15-15-16
Machine A15-10-15
Set A15-20-21
Sheet Metal A15-1-5
Tamper-Proof A15-19-20
Tek® A15-7-9
Thread Cutting A15-5-6
Thread Rolling Hex Washer
Tri-Roundular A15-6
Thumb A15-15
Un-Do-It Tool A15-20
Universal Self-Drilling A15-19
Winged Self-Drillers A15-10
Wood A15-16-18

A16-METRIC

Cap Screw Assortments
16 Bin A16-3
40 Bin A16-2-3
80 Bin A16-1-2
18 Drawer A16-3
Plastic Trays A16-5
Stainless Steel A16-26-27
Steel Trays A16-4-5
Button Head Socket Cap Screws A16-13
Cone Point Hex Bolts A16-14
Cotter Pins A16-22
Dowel Pins A16-25
Flange Bolts A16-13-14
Flat Head Socket Cap Screws A16-12
Gaskets A16-19
Hex Head Cap Screws A16-6-10
Stainless Steel A16-27
Hex Nuts
Acorn A16-16
Stainless Steel A16-27
Brass A16-17
Castle A16-17
Copper A16-17
Finished 10.9 & 8.8 . . . . . A16-15
Flange A16-16
Free Spinning Washer A16-17
Jam A16-15
Stainless Steel A16-27
Lock, Stainless Steel A16-27
Nylon Insert Locknut A16-16
Prevailing Torque Locknut A16-15
Stainless Steel A16-27
Washer A16-16
Hex Rod Couplings A16-21
Indented Hex Head Bolts A16-14
Keystock A16-25
Machine Screws A16-19-20
Stainless Steel A16-29-30
Push Nuts A16-17
Retaining Rings A16-23-24
Rod Couplings A16-21
Roll Pins A16-24
Roller Chain A16-22
Socket Head Cap Screws A16-11-13
Stainless Steel A16-28
Socket Head Shoulder Screws A16-12
Socket Set Screws A16-21
Stainless Steel A16-29
Speed Nuts "U" Type A16-17
Spring Pins A16-24
Stainless Steel A16-26-30
Studs A16-22
Technical Data A16-1
Threaded Rod A16-21
Stainless Steel A16-30
Washers A16-18-19
Stainless Steel A16-27
Wing Nuts A16-17

A17-THREAD REPAIR

Clinch Nuts & Tool A17-1
Coil Thread Inserts A17-5-6
Spark Plug Assortment A17-5
Tools A17-6
Grip-N-Sert Tool A17-3
Grip-N-Serts A17-2
Heli-Coil Drain Repair Kits A17-6
Keenserts A17-3-4
Rivet Nut Tool A17-1
Mandrels & Nosepieces A17-2
Rivet Nuts A17-2
Spark Plug Keenserts A17-4

A18-PINS/CLIPS/KEYSTOCK/SPRINGS

Bow-Tie Cotters A18-3
Clevis Pins A18-3-4
Cotter Pins A18-1-3
Removal Pliers A18-2
Dowel Pins A18-6
Hitch Pin (Hair Pin Cotters) A18-1
Actual Size Illustrations A18-ii
Keystock A18-9
Retaining Rings A18-7-8
Rue Ring Cotter Pins A18-2
Shaft Collars A18-10
Spiral Spring Pins A18-5
Spring Roll Pins A18-4-5
Springs A18-10-11
Taper Pins A18-6
Wedg-Lok Cotter Pins A18-2
Woodruff Keys A18-9

A19-RIVETS

Aluminum Rivets A19-10
Back-Up Washers A19-25
Blind Rivets A19-1-5
Assortments A19-25
Gun A19-26
Interchange A19-27
Tool A19-26
Brazier Head Rivets A19-10
Bulbex Rivets A19-7
C98LT Fastening System A19-18
Camcar Textron Camtainer Fastening
System A19-20
Door Rivets A19-7
Floortight Rivets A19-18
HP8 Powerbolt Rivets A19-21
Huck Fastener Tooling A19-24
Huck-Fit Powerbolt Rivets A19-22
Hucktainer Rivets A19-19
Lobster Tooling A19-23
Magna-Bulb Rivets A19-15
Magna-Grip Lock Bolt Rivets . . . A19-16-17
Magna-Lok Rivets A19-12-13
Mandrels A19-26
Monobolt Rivets A19-14
Multi-Grip A19-6
Nosepieces A19-26
Nylon Rivets A19-11
Olympic Bulb-Tite Rivets A19-8
Pop Rivets A19-1-5
Tools A19-23
Rivet Gun A19-26
Rivet Interchange A19-27
Rivet Tool A19-26
Southco Rivets A19-9

A20-CHAIN & CABLE

Agricultural Equipment
Maintenance Assortment A20-14
Aircraft Cable A20-6
Anchor Shackles A20-6
Ball Joint Assemblies A20-13
Cable Ferrules & Stops A20-5
Cable Puller A20-3
Cargo Straps A20-4
Ceiling Hooks A20-8
Chain A20-1-3
Binder A20-3
Breaker A20-12
Heel Coil A20-1
High Test A20-1
Jack A20-2
Links A20-4
Loop A20-2
Machine A20-1
Passing Link A20-2
Plumbers A20-2
Proof Coil A20-1
Roller A20-12
Safety A20-2
Sash A20-2
Stainless Steel A20-3
Straight Link A20-1
System 3, 4 & 7 . . . . . A20-1
Tow A20-3
Transport A20-1
Twist Link A20-1
Clevis Yoke Ends A20-13
Cold Shut A20-5
Double Clevis A20-5
Eye Bolts, Hoist Hooks & Swivels . A20-5-7
Field I.D. Tag A20-3
Grab Hooks A20-6
Hitch Pins A20-11
J-Bolts A20-7
Latch Kits A20-8
Lift Arm Bushings & Pins A20-11
Load Binders & Huggers A20-3-4
Lock Pins A20-11
Lynch Pins A20-12
Master Links A20-4
Nylon Rope & Slings A20-9-10
Pillow Blocks A20-11
Polypropylene Rope A20-9
Quick Links A20-5
Repair Links A20-5
Rod End Ball Joints A20-13
Roller Chain & Repair Parts A20-12
Rope & Hooks A20-9
Rubber Rope A20-9
S-Hooks A20-8
Security Coupling Links A20-4
Slings A20-10
Slip & Snap Hooks A20-6
Snap Pear Hooks A20-8
Snaps A20-8
Tarp Straps & Tarpaulin A20-10
Tow Rope A20-4
Turnbuckles A20-7
Twine A20-9
Wire Rope, Clips & Thimbles A20-5-6
Yokes A20-13

A21-BUILDING MAINTENANCE

Alligator Anchors A21-5
Anchor Assortments A21-1
Anchor Kits A21-2
Anchors
Alligator A21-5
Double Expansion A21-8
Drop-In A21-8
Hollow Wall A21-3-5
Light & Medium Duty A21-3
Machine Screw A21-8
Nylon Screw A21-2
Rawl Zip-It A21-5
Ribbed Plastic A21-2
Stud Bolt A21-8
Threaded A21-7
Vinyl Screw A21-2
Wall Dog A21-4
Double Expansion Anchors A21-8
Drive Grips A21-4
Drive Pins A21-6
Drop-In Anchors A21-8
E-Z Toggle A21-5
Facility Maintenance Assortment . . . A21-1
Hangermate Threaded Rod Anchoring
System A21-9
Hollow Wall Anchors A21-3-5
Lag Screw Shields A21-8
Machine Screw Anchors A21-8
Masonry Anchors A21-6-9
Maxi-Stud Masonry Anchors A21-7
Nylon Screw Anchors A21-2
Rawl A21-5
Solid Wall Anchors A21-5
Stud Bolt Anchors A21-8
Super Toggler A21-4
Tapcon Fasteners A21-6
Threaded Anchors A21-7
Toggle Bolts & Wings A21-3-4
Uni-Tap A21-3
Utility Hook A21-5
Vinyl Screw Anchors A21-2
Wall Anchors & Grips A21-4

INFASCO CAP SCREWS

THE BOLT OF CHOICE FOR THE HEAVY EQUIPMENT INDUSTRY

Infasco is the largest manufacturer of Grade 5 and Grade 8 Cap Screws in North America. They are accepted and used by all branches of the Federal Government as well as GM, Ford, GE, Westinghouse, General Dynamics and many other national and international companies.

With Infasco Cap Screws, our customers will be in full compliance with the new "Fastener Quality Act" (Public Law 101-592).

Grade 8 Infasco Fastener

Grade 5 Infasco Fastener

U.S. GOVERNMENT APPROVED

Infasco Bolts are Original Equipment on both MACK and CATERPILLAR Products

INFASCO FASTENERS VS. PRIVATE BRAND FASTENERS

Some nut and bolt distributors have fasteners made with their own private head markings. This is costly to them and to their customers. But, do you get anything more even though you are paying more?

Infasco Fasteners

Private Head Fasteners

Highest quality at a fair price - All certified bolts must meet the same industry standards.	Higher price without any increase in quality.
Infasco is Original Equipment for many well known manufacturers, such as: Caterpillar and more.	Private heads are never used as original equipment.
Infasco's triangle trade mark is easily identifiable and traceable. Their bolts are widely accepted by government and industry.	Private headed bolts mask the identity of the maker. Not only can the manufacturer change from one year to the next, but bolts could even be made overseas without your knowledge.
Infasco is a certified member of the American Association for Laboratory Accreditation.	Private headed bolts must always be fully tested and certified. But, if you don't have a testing laboratory, then what do you do?
You have the assurance of correct and consistent testing methods.	Protect yourself - Do not rely on impressive looking unscientific tests performed in your shop. Insist on Standardized procedures which meet accepted requirements.

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GRADE 8 FASTENING SYSTEM

OUR GRADE 8 FASTENING SYSTEM
IS YOUR SOLUTION TO COUNTERFEIT BOLTS

With Grade 8 Fastening System

YOU GET...

- Quality Assurance
- Safety
- Reliability
- Dependability

YOU AVOID...

- Down Time
- Increased Costs
- Potential Liability
- Counterfeit Hardware

All Grade-8 Fasteners are Manufactured in North America by the Biggest Manufacturer of Standard Fasteners in the World.

OUR GRADE 8 FASTENING SYSTEM
IS YOUR SOLUTION TO THESE PROBLEMS

In today's hi-tech, competitive world, equipment has more power, speed and sophistication than ever before.
That's why

YOU NEED...

Our Dependable Grade-8 Fasteners.

Since the current business environment requires an even better bottom line, you must take into account TOTAL COST, not just price.
That's why

YOU NEED...

The **OUR** Fastening System. Our Grade-8 Fasteners **Reduce Downtime** and Overall **Maintenance Costs.**

Everyone is becoming aware of the problem of imported counterfeit bolts.
That's why

YOU NEED...

Us, The fastener supplier you can rely on for **original equipment quality.**

Because of increasing liability problems today, sound business practice demands that safety becomes a top priority.
That's why

YOU NEED...

OUR GRADE 8 FASTENING SYSTEM

Be Smart, Be Safe. Choose The Best, Choose Us.
The Top Quality, Safe and Reliable Grade 8 Fastening System.

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HEX HEAD CAP SCREWS

USS coarse

SAE fine

THREADS PER INCH

DIAMETER →	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
USS	20	18	16	14	13	12	11	10	9	8
SAE	28	24	24	20	20	18	18	16	14	14

TECHNICAL DATA

HEX HEAD MARKING	MARKING SPECIFICATION AND GRADE	AISI, ASTM OR SAE No.	MATERIAL TYPE	PHYSICAL PROPERTIES			
				FOR FASTENER DIA. INCHES	PROOF LOAD (PSI)	TENSILE STRENGTH (MIN. PSI)	ROCKWELL HARDNESS
2	No Marking GRADE 1	C-1010 C-1020	Low Carbon Steel	1/4 thru 1-1/2	33,000	60,000	B-100 max.
	No Marking GRADE 2	C-1018 C-1020	Low Carbon Steel	1/4 thru 3/4 7/8 thru 1-1/2	55,000 33,000	74,000 60,000	B-100 max.
5	3 Radial Lines GRADE 5	C-1038	Medium Carbon Steel Quenched & Tempered (Heat Treated)	1/4 thru 1 over 1 to 1-1/2	85,000 74,000	120,000 105,000	C25-34 C19-30
8	6 Radial Lines GRADE 8	8735 8740	Medium Carbon Alloy Steel, Quenched & Tempered	Up to 1-1/2	120,000	150,000	C33-39
L9	9 Radial Lines Exceeds Gr.-8 Specifications Ultra Alloy	SPECIAL	Special Carbon Alloy Steel Quenched & Tempered	Up to 1	145,000	180,000 to 200,000	C38-42 Exceeds GRADE 8

TENSILE STRENGTH	MATERIAL	HEAD	PLATING	ILLUSTRATION
180,000 PSI L9	Special carbon Alloy steel For maximum Strength	23% higher Head for Greater Wrenching	Yellow zinc Plating provides Effective Resistance to Corrosion	
150,000 PSI 8	Medium Carbon alloy Steel	Standard	Yellow zinc Plating provides Effective Resistance to Corrosion	
120,000 PSI 5	Medium Carbon Steel	Standard	Lusterplated To resist rust And corrosion	

The formula for determining basic thread length on cap screws is as follows:

a. For bolts or screws 6 in. and shorter - twice the diameter plus 1/4 inch.
b. For bolts or screws over 6 inches long - twice the diameter plus 1/2 inch.
c. When bolts or screws are too short to apply the formula the thread will be extended as close to the head as possible.

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POPULAR FASTENER ASSORTMENTS

SMALL & LARGE DIAMETER • USS (COARSE)

Protected by **LUSTERPLATE™** against rust & corrosion

Assortment Photo for illustration purposes only. Actual Contents may vary.

112 BIN

1/4" THRU 1" DIAMETERS
1/2" TO 6" in Length

GRADE 5 COARSE (USS)
1308 pieces
96 items
Part No. **501704**

GRADE 8 COARSE (USS)
1308 pieces
96 items
Part No. **501705**

Includes: (2) #12021, 40 compartment bins and
(1) #12068, 32 compartment bin
(1) set of bin labels

1/4 x 1/2	1/4 x 1	1/4 x 1-1/2	1/4 x 2	1/4 x 2-1/2			
5/16 x 1	5/16 x 1-1/2	5/16 x 2	5/16 x 2-1/2	5/16 x 3			
3/8 x 1	3/8 x 1-1/2	3/8 x 2	3/8 x 2-1/2	3/8 x 3	3/8 x 3-1/2	3/8 x 4	
7/16 x 1	7/16 x 1-1/2	7/16 x 2	7/16 x 2-1/2	7/16 x 3	7/16 x 3-1/2	7/16 x 4	
1/2 x 1	1/2 x 1-1/2	1/2 x 2	1/2 x 2-1/2	1/2 x 3	1/2 x 3-1/2	1/2 x 4	1/2 x 4-1/2
5/8 x 1-1/2	5/8 x 2	5/8 x 2-1/2	5/8 x 3	5/8 x 3-1/2	5/8 x 4	5/8 x 4-1/2	5/8 x 5
5/8 x 5-1/2	5/8 x 6		3/4 x 2	3/4 x 2-1/2	3/4 x 3	3/4 x 3-1/2	3/4 x 4
3/4 x 4-1/2	3/4 x 5	3/4 x 5-1/2	3/4 x 6		7/8 x 2	7/8 x 2-1/2	7/8 x 3
7/8 x 3-1/2	7/8 x 4	7/8 x 4-1/2	7/8 x 5	7/8 x 5-1/2	7/8 x 6		1 x 2
1 x 2-1/2	1 x 3	1 x 3-1/2	1 x 4	1 x 4-1/2	1 x 5	1 x 5-1/2	1 x 6
1/4 lock washer	5/16 lock washer	3/8 lock washer	7/16 lock washer	1/2 lock washer	5/8 lock washer	3/4 lock washer	7/8 lock washer
1 lock washer			1/4 flat washer	5/16 flat washer	3/8 flat washer	7/16 flat washer	1/2 flat washer
5/8 flat washer	3/4 flat washer	7/8 flat washer	1 flat washer			1/4 hex nut	5/16 hex nut
3/8 hex nut	7/16 hex nut	1/2 hex nut	5/8 hex nut	3/4 hex nut	7/8 hex nut	1 hex nut	

SMALL & LARGE DIAMETER • USS (COARSE)

Protected by **LUSTERPLATE™** against rust & corrosion

Assortment Photo for illustration purposes only. Actual Contents may vary.

Includes: (2) #12021
(1) set of bin labels

80 BIN

1/4" THRU 3/4" DIAMETERS
1/2" TO 4" in Length

GRADE 5 (USS)
1296 pieces • 77 items
Part No. **501098**

GRADE 8 (USS)
1296 pieces • 77 items
Part No. **501099**

GRADE L9 (USS)
1296 pieces • 77 items
Part No. **601099**

* Grade L9 assortments are supplied with USS flat washers.

1/4 hex nut	5/16 hex nut	3/8 hex nut	7/16 hex nut	1/2 hex nut	9/16 hex nut	5/8 hex nut	3/4 hex nut
1/4 lock washer	5/16 lock washer	3/8 lock washer	7/16 lock washer	1/2 lock washer	9/16 lock washer	5/8 lock washer	3/4 lock washer
1/4 flat washer	5/16 flat washer	3/8 flat washer	7/16 flat washer	1/2 flat washer	9/16 flat washer	5/8 flat washer	3/4 flat washer
1/4 x 1/2	5/16 x 1/2	3/8 x 1	7/16 x 1	1/2 x 1	9/16 x 1-1/2	5/8 x 1-1/2	3/4 x 1-1/2
1/4 x 3/4	5/16 x 3/4	3/8 x 1-1/2	7/16 x 1-1/2	1/2 x 1-1/2	9/16 x 2	5/8 x 2	3/4 x 2
1/4 x 1	5/16 x 1	3/8 x 2	7/16 x 2	1/2 x 2	9/16 x 2-1/2	5/8 x 2-1/2	3/4 x 2-1/2
1/4 x 1-1/2	5/16 x 1-1/2	3/8 x 2-1/2	7/16 x 2-1/2	1/2 x 2-1/2	9/16 x 3	5/8 x 3	3/4 x 3
1/4 x 2	5/16 x 2	3/8 x 3	7/16 x 3	1/2 x 3	9/16 x 3-1/2	5/8 x 3-1/2	3/4 x 3-1/2
1/4 x 2-1/2	5/16 x 2-1/2	3/8 x 3-1/2	7/16 x 3-1/2	1/2 x 3-1/2	9/16 x 4	5/8 x 4	3/4 x 4
1/4 x 3	5/16 x 3	3/8 x 4	7/16 x 4	1/2 x 4			

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POPULAR FASTENER ASSORTMENTS

SMALL DIAMETER • USS (COARSE) & SAE (FINE)

1/4 x 1/2	1/4 x 3/4	1/4 x 1	1/4 x 1-1/2	1/4 x 2	1/4 x 2-1/2	5/16 x 1/2	5/16 x 1	USS COARSE
5/16 x 1-1/2	5/16 x 2	5/16 x 2-1/2	3/8 x 1/2	3/8 x 3/4	3/8 x 1	3/8 x 1-1/2	3/8 x 2	
3/8 x 2-1/2	3/8 x 3	7/16 x 1-1/2	7/16 x 2	7/16 x 2-1/2	7/16 x 3	1/2 x 1-1/2	1/2 x 2	
1/2 x 2-1/2	1/2 x 3	1/4 USS hex nut	5/16 USS hex nut	3/8 USS hex nut	7/16 USS hex nut	1/2 USS hex nut	1/4 SAE flat washer	
5/16 SAE flat washer	3/8 SAE flat washer	7/16 SAE flat washer	1/2 SAE flat washer	1/4 lock washer	5/16 lock washer	3/8 lock washer	7/16 lock washer	
1/2 lock washer	1/4 x 1/2	1/4 x 3/4	1/4 x 1	1/4 x 1-1/2	1/4 x 2	1/4 x 2-1/2	5/16 x 1/2	SAE FINE
5/16 x 1	5/16 x 1-1/2	5/16 x 2	5/16 x 2-1/2	3/8 x 1/2	3/8 x 3/4	3/8 x 1	3/8 x 1-1/2	
3/8 x 2	3/8 x 2-1/2	3/8 x 3	7/16 x 1-1/2	7/16 x 2	7/16 x 2-1/2	7/16 x 3	1/2 x 1-1/2	
1/2 x 2	1/2 x 2-1/2	1/2 x 3	1/4 SAE hex nut	5/16 SAE hex nut	3/8 SAE hex nut	7/16 SAE hex nut	1/2 SAE hex nut	

1/4" THRU 1/2" DIAMETERS
1/2" TO 3" IN LENGTH

GRADE 5
COARSE (USS) & FINE (SAE)
2464 pieces • 72 items
Part No. 501072L
Half quantities available, use 501072M

GRADE 8
COARSE (USS) & FINE (SAE)
1475 pieces • 72 items
Part No. 501087

GRADE L9
COARSE (USS) & FINE (SAE)
1475 pieces • 72 items
Part No. 601087

* Grade L9 assortments are supplied with USS flat washers.

Protected by **LUSTERPLATE™** against rust & corrosion

Assortment Photo for illustration purposes only. Actual Contents may vary.

Includes: (2) #12021
(1) set of bin labels

LARGE DIAMETER • USS (COARSE) & SAE (FINE)

9/16 x 2	9/16 x 2-1/2	9/16 x 3	9/16 x 4	5/8 x 2	5/8 x 2-1/2	5/8 x 3	5/8 x 4	USS COARSE
3/4 x 1-1/2	3/4 x 2	3/4 x 2-1/2	3/4 x 3	3/4 x 3-1/2	7/8 x 2	7/8 x 3	7/8 x 4	
1 x 3	1 x 4	9/16 USS hex nut	5/8 USS hex nut	3/4 USS hex nut	7/8 USS hex nut	1 USS hex nut	9/16 USS flat washer	
5/8 USS flat washer	3/4 USS flat washer	7/8 USS flat washer	1 USS flat washer	9/16 lock washer	5/8 lock washer	3/4 lock washer	7/8 lock washer	
1 lock washer	9/16 x 2	9/16 x 2-1/2	9/16 x 3	9/16 x 4	5/8 x 2	5/8 x 2-1/2	5/8 x 3	SAE FINE
5/8 x 4	3/4 x 1-1/2	3/4 x 2	3/4 x 2-1/2	3/4 x 3	3/4 x 3-1/2	7/8 x 2	7/8 x 4	
1 x 3	1 x 4	9/16 SAE hex nut	5/8 SAE hex nut	3/4 SAE hex nut	7/8 SAE hex nut	1 SAE hex nut	9/16 SAE flat washer	
5/8 SAE flat washer	3/4 SAE flat washer	7/8 SAE flat washer	1 SAE flat washer					

9/16" THRU 1" DIAMETERS
2 TO 4" IN LENGTH

GRADE 8
COARSE (USS) & FINE (SAE)
545 pieces • 61 items
Contains USS & SAE flat washers.
Part No. 501310

GRADE L9
COARSE (USS) & FINE (SAE)
470 pieces • 56 items
Contains USS flat washers only.
Part No. 601310

Includes: (2) #12021 • (1) set of bin labels

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SMALL DIAMETER • USS (COARSE)

1/4 x 1/2	1/4 x 3/4	1/4 x 1	1/4 x 1-1/2	1/4 x 2	1/4 x 2-1/2	1/4 x 3	5/16 x 1/2
5/16 x 3/4	5/16 x 1	5/16 x 1-1/2	5/16 x 2	5/16 x 2-1/2	5/16 x 3	3/8 x 3/4	3/8 x 1
3/8 x 1-1/2	3/8 x 2	3/8 x 2-1/2	3/8 x 3	3/8 x 3-1/2	3/8 x 4	7/16 x 1	7/16 x 1-1/2
7/16 x 2	7/16 x 2-1/2	7/16 x 3	7/16 x 3-1/2	7/16 x 4	1/2 x 1-1/2	1/2 x 2	1/2 x 2-1/2
1/2 x 3	1/2 x 3-1/2	1/2 x 4	9/16 x 2	9/16 x 2-1/2	9/16 x 3	9/16 x 4	5/8 x 2
5/8 x 2-1/2	5/8 x 3	5/8 x 4	1/4 hex nut	5/16 hex nut	3/8 hex nut	7/16 hex nut	1/2 hex nut
9/16 hex nut	5/8 hex nut	1/4 flat washer	5/16 flat washer	3/8 flat washer	7/16 flat washer	1/2 flat washer	9/16 flat washer
5/8 flat washer	1/4 lock washer	5/16 lock washer	3/8 lock washer	7/16 lock washer	1/2 lock washer	9/16 lock washer	5/8 lock washer

1/4" THRU 5/8" DIAMETERS
1/2" TO 4" IN LENGTH

GRADE 5
1472 pieces • 64 items
Part No. 501073L
Half quantities available, use 501073M

GRADE 8
1183 pieces • 64 items
Part No. 501088

GRADE L9
1183 pieces • 64 items
Part No. 601088

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POPULAR FASTENER ASSORTMENTS

SMALL & LARGE DIAMETER • USS (COARSE)

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Includes: (2) #12021
(1) set of bin labels

1/4" THRU 3/4" DIAMETERS
1/2" TO 6" IN LENGTH

GRADE 8 (USS)
1176 pieces • 72 items
Includes bin label set and bins
Part No. 501460

GRADE 5 (USS)
1176 pieces • 72 items
Includes bin label set and bins
Part No. 501459

1/4 x 1/2	1/4 x 1	1/4 x 1-1/2	1/4 x 2	1/4 x 2-1/2	5/16 x 1	5/16 x 1-1/2	5/16 x 2
5/16 x 2-1/2	5/16 x 3	3/8 x 1	3/8 x 1-1/2	3/8 x 2	3/8 x 2-1/2	3/8 x 3	3/8 x 3-1/2
3/8 x 4	7/16 x 1	7/16 x 1-1/2	7/16 x 2	7/16 x 2-1/2	7/16 x 3	7/16 x 3-1/2	7/16 x 4
1/2 x 1	1/2 x 1-1/2	1/2 x 2	1/2 x 2-1/2	1/2 x 3	1/2 x 3-1/2	1/2 x 4	1/2 x 4-1/2
5/8 x 1-1/2	5/8 x 2	5/8 x 2-1/2	5/8 x 3	5/8 x 3-1/2	5/8 x 4	5/8 x 4-1/2	5/8 x 5
5/8 x 5-1/2	5/8 x 6	3/4 x 2	3/4 x 2-1/2	3/4 x 3	3/4 x 4	3/4 x 4-1/2	3/4 x 5
3/4 x 5-1/2	3/4 x 6	1/4 hex nut	5/16 hex nut	3/8 hex nut	7/16 hex nut	1/2 hex nut	5/8 hex nut
3/4 hex nut	1/4 lock washer	5/16 lock washer	3/8 lock washer	7/16 lock washer	1/2 lock washer	5/8 lock washer	3/4 lock washer
1/4 flat washer	5/16 flat washer	3/8 flat washer	7/16 flat washer	1/2 flat washer	5/8 flat washer	3/4 flat washer	

POPULAR FASTENERS • USS (COARSE) & SAE (FINE)

Assortment Photo for illustration purposes only. Actual Contents may vary.

Includes: (1) #12021,
(1) set of bin labels

1/4" THRU 1/2" DIAMETERS
1/2" TO 3" in Length

GRADE 5
1606 pieces • 40 items
Part No. 501304L (USS)
Half quantities available, use 501304M
Part No. 501560L (SAE)
Half quantities available, use 501560M

GRADE 8
799 pieces • 40 items
Part No. 501091 (USS)
Part No. 501097 (SAE)

GRADE L9 (USS)
799 pieces • 40 items
Part No. 601091

* Grade L9 assortments are supplied with USS flat washers.

1/4 x 1/2	1/4 x 3/4	1/4 x 1	1/4 x 1-1/2	1/4 x 2	5/16 x 3/4	5/16 x 1	5/16 x 1-1/4
5/16 x 1-1/2	5/16 x 2	5/16 x 2-1/2	3/8 x 3/4	3/8 x 1	3/8 x 1-1/4	3/8 x 1-1/2	3/8 x 2
3/8 x 2-1/2	3/8 x 3	7/16 x 1	7/16 x 1-1/2	7/16 x 2	1/2 x 1-1/2	1/2 x 2	1/2 x 2-1/2
1/2 x 3	1/4 hex nut	5/16 hex nut	3/8 hex nut	7/16 hex nut	1/2 hex nut	1/4 flat washer	5/16 flat washer
3/8 flat washer	7/16 flat washer	1/2 flat washer	1/4 lock washer	5/16 lock washer	3/8 lock washer	7/16 lock washer	1/2 lock washer

LARGE DIAMETER • USS (COARSE) & SAE (FINE)

Assortment Photo for illustration purposes only. Actual Contents may vary.

Includes: (1) #12021,
(1) set of bin labels

9/16" THRU 1" DIAMETERS
2" TO 6" IN LENGTH

GRADE 5
633 pieces • 40 items
Part No. 501739 (USS)
Part No. 501740 (SAE)

GRADE 8
487 pieces • 40 items
Part No. 501741 (USS)
Part No. 501742 (SAE)

9/16 x 2	5/8 x 2	3/4 x 2-1/2	7/8 x 2-1/2	1 x 3	9/16 hex nut	9/16 split lock washer	9/16 flat washer
9/16 x 2-1/2	5/8 x 2-1/2	3/4 x 3	7/8 x 3	1 x 3-1/2	5/8 hex nut	5/8 split lock washer	5/8 flat washer
9/16 x 3	5/8 x 3	3/4 x 4	7/8 x 4	1 x 4	3/4 hex nut	3/4 split lock washer	1/2 flat washer
9/16 x 4	5/8 x 4	3/4 x 5	7/8 x 5	1 x 5	7/8 hex nut	7/8 split lock washer	7/8 flat washer
9/16 x 5	5/8 x 5	3/4 x 6	7/8 x 6	1 x 6	1 hex nut	1 split lock washer	1 lock washer

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ASSORTMENTS

LARGE DIAMETER • USS (COARSE) & SAE (FINE)

3/4 x 1-1/2	3/4 x 2	3/4 x 2-1/2	3/4 x 3	3/4 x 3-1/2	7/8 x 2	7/8 x 3	7/8 x 4	USS COARSE
1 x 3	1 x 4	3/4 USS hex nut	7/8 USS hex nut	1 USS hex nut				
3/4 flat washer	7/8 flat washer	1 flat washer	3/4 lock washer	7/8 lock washer	1 lock washer			
3/4 x 1-1/2	3/4 x 2	3/4 x 2-1/2	3/4 x 3	3/4 x 3-1/2	7/8 x 2	7/8 x 3	7/8 x 4	SAE FINE
1 x 3	1 x 4	3/4 SAE hex nut	7/8 SAE hex nut	1 SAE hex nut				

3/4" THRU 1" DIAMETERS
1-1/2" TO 6" IN LENGTH

GRADE 5
213 pieces • 35 items
Contains both USS & SAE flat washers.
Part No. 501307

GRADE 8
213 pieces • 35 items
Contains both USS & SAE flat washers.
Part No. 501309

GRADE L9
178 pieces • 32 items
Part No. 601309

* Grade L9 assortments are supplied with USS flat washers.

Assortment Photo for illustration purposes only. Actual Contents may vary.

Includes: (1) #12021, (1) set of bin labels

SMALL DIAMETER • USS (COARSE) & SAE (FINE)

1/4 x 3/4	1/4 x 1	1/4 x 1-1/2	5/16 x 3/4	5/16 x 1	5/16 x 1-1/2	5/16 x 2	3/8 x 3/4	USS COARSE
3/8 x 1	3/8 x 1-1/2	3/8 x 2	7/16 x 2	1/2 x 1	1/2 x 1-1/2	1/2 x 2	1/4 USS hex nut	
5/16 USS hex nut	3/8 USS hex nut	7/16 USS hex nut	1/2 USS hex nut	1/4 x 3/4	1/4 x 1	1/4 x 1-1/2	5/16 x 3/4	SAE FINE
5/16 x 1	5/16 x 1-1/2	5/16 x 2	3/8 x 3/4	3/8 x 1	3/8 x 1-1/2	3/8 x 2	7/16 x 2	
1/2 x 1	1/2 x 1-1/2	1/2 x 2	1/4 SAE hex nut	5/16 SAE hex nut	3/8 SAE hex nut	7/16 SAE hex nut	1/2 SAE hex nut	

1/4" THRU 1/2" DIAMETERS
3/4" TO 2" IN LENGTH

GRADE 5
1240 pieces • 40 items
Part No. 501040L
Half quantities available, use 501040M

GRADE 8
402 pieces • 40 items
Part No. 501065

GRADE L9
402 pieces • 40 items
Part No. 601065

Assortment Photo for illustration purposes only. Actual Contents may vary.

Includes: (1) #12021, (1) set of bin labels

SMALL DIAMETER • USS (COARSE) & SAE (FINE)

1/4 lock washer	1/4 flat washer	1/4 hex nut	1/4 x 1/2	1/4 x 3/4	1/4 x 1
5/16 lock washer	5/16 flat washer	5/16 hex nut	5/16 x 3/4	5/16 x 1	5/16 x 1-1/4
3/8 lock washer	3/8 flat washer	3/8 hex nut	3/8 x 1	3/8 x 1-1/4	3/8 x 1-1/2
1/2 lock washer	1/2 flat washer	1/2 hex nut	1/2 x 1	1/2 x 1-1/4	1/2 x 1-1/2

1/4" THRU 1/2" DIAMETERS
1/2" TO 1-1/2" IN LENGTH

GRADE 5
1042 pieces • 24 items
Part No. 501001L (USS)
Half quantities available, use 501001M

1122 pieces • 24 items
Part No. 501002L (SAE)
Half quantities available, use 501002M

Assortment Photo for illustration purposes only. Actual Contents may vary.

GRADE 8
518 pieces • 24 items
Part No. 501084 (USS)
542 pieces • 24 items
Part No. 501085 (SAE)

GRADE L9
518 pieces • 24 items
Part No. 601084 (USS)
542 pieces • 24 items
Part No. 601085 (SAE)

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SUPRALLOY L9® CAP SCREWS / HEX NUTS / WASHERS

Ideal for farms, manufacturers, maintenance shops, railroads, amusement parks, construction, equipment rental

Protected by
CADMIUM WAXED
YELLOW DICHROMATE™
against rust & corrosion

- **Engineered to meet 180,000 to 200,000 PSI. tensile strength.**
- **23% taller head for greater wrenching and less wrench slippage.**
- **Rolled thread & chamfered tip provides easy starting.**
- **Exceeds ASTMB633, Type IISCI specifications.**
- **YELLOW DICHROMATE™ plated against rust and corrosion and to produce accurate torque.**
- **Replaces private brand bolts such as: MC-12, Tru-Torq, Karalloy, Bowmalloy, Dura-Torq, Supertanium.**

CAP SCREWS

QTY	LENGTH		DIAMETER 1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1				QTY
50	1/2	USS	602501	602518	602535											
		SAE	602701													
	3/4	USS	602503	602520	602537	602556	602575									
		SAE	602703	602720	602737											
	1	USS	602505	602522	602539	602558	602577	602594	602604							
		SAE	602705	602722	602739	602758	602777		602804							
	1-1/4	USS	602506	602523	602540	602559	602578	602595*	602605							
		SAE	602706	602723	602740	602759	602778	602795*		602821*						
	1-1/2	USS	602507	602524	602541	602560	602579	602596	602606	602622						
		SAE	602707	602724	602741	602760	602779	602796	602806	602822						
	1-3/4	USS	602508	602525	602542	602561	602580		602607	602623						
		SAE	602708*	602725	602742	602761	602780		602807	602823						
	2	USS	602509	602526	602543	602562	602581	602598	602608	602624	602637	602650				
		SAE	602709	602726	602743	602762	602781	602798	602808	602824	602837					
	2-1/4	USS		602527*	602544		602582		602609	602625						
		SAE	602710*	602727*	602744		602782		602809	602825	602838*					
	2-1/2	USS	602511	602528	602545	602564	602583	602600	602610	602626	602639	602652				
		SAE	602711	602728	602745	602764	602783	602800	602810	602826	602839	602852				5
25	2-3/4	USS	602512*			602565*			602611	602627	602640*	602653*				
		SAE	602712*			602765*			602811	602827	602840*	602853*				
	3	USS	602513	602530	602547	602566	602585	602602	602612	602628	602641	602654				
		SAE	602713	602730	602747	602766	602785	602802	602812	602828	602841	602854				
15	3-1/2	USS	602515*	602532	602549	602568	602587	602603	602613	602630	602643	602656				
		SAE			602749	602768	602787	602803	602813	602830	602843	602856				
	4	USS		602534	602551	602570	602589	602601	602615	602632	602645	602657				
		SAE	602717*	602734*	602751	602770	602789	602801	602815	602832	602845	602857				
10	4-1/2	USS	602519*		602552	602571*	602590	602614*	602616	602633	602646	602658				
		SAE	602719*	602736*	602752*	602771*	602790*		602816	602833	602846	602858				
	5	USS			602553	602572	602591	602618	602617	602634	602647	602659				
		SAE	602721*	602738*	602753*		602791	602818*	602817	602834	602847	602859				
	5-1/2	USS				602574*			602662	602635	602648	602660				
		SAE			602755*	602774*	602792*		602862	602835	602848	602860				
	6	USS	602533*		602554	602573	602593		602619	602636	602649	602661				
		SAE	602733*	602750*		602773*	602793		602819	602836	602849	602861				
HEX NUTS		USS	602901	602902	602903	602904	602905	602906	602907	602908	602909	602910				
		SAE	602911	602912	602913	602914	602915	602916	602917	602918	602919	602920				
		QTY	50	50	50	25	25	15	15	10	5	5				
LOCK NUTS		USS	602921	602922	602923	602924	602925	602926	602927	602928	602929	602930				
		SAE	602931	602932	602933	602934	602935	602936	602937	602938	602939	602940				
		QTY	50	50	50	25	25	25	25	10	5	5				
FLAT WASHERS		ALL	602941	602942	602943	602944	602945	602946	602947	602948	602949	602950				
		QTY	100	100	100	50	50	50	25	12	12	12				
THREADS PER INCH		USS	20	18	16	14	13	12	11	10	9	8				
		SAE	28	24	24	20	20	18	18	16	14	14				

*** These items will be discontinued when stock is depleted.**

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ALLOY GRADE 8 CAP SCREWS / HEX NUTS / WASHERS

Used by manufacturing and processing plants, school buses, mining, construction and fleets.

- **Minimum tensile strength 150,000 PSI.**
- **Medium carbon alloy steel.**

Protected by
ZINC-YELLOW DICHROMATE™
against rust & corrosion

CAP SCREWS

QTY	LENGTH		DIAMETER 1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1				QTY
100	1/2	USS	502501	502518	502535											
		SAE	502701	502718	502735											
	3/4	USS	502503	502520	502537	502556	502575									
		SAE	502703	502720	502737	502756	502775									
	1	USS	502505	502522	502539	502558	502577	502594	502604	502620						
		SAE	502705	502722	502739	502758	502777	502794	502804	502820						
	1-1/4	USS	502506	502523	502540	502559	502578	502595	502605	502621						
		SAE	502706	502723	502740	502759	502778	502795	502805	502821						
	1-1/2	USS	502507	502524	502541	502560	502579	502596	502606	502622						
		SAE	502707	502724	502741	502760	502779	502796	502806	502822						
	1-3/4	USS	502508	502525	502542	502561	502580	502597	502607	502623						
		SAE	502708	502725	502742	502761	502780	502797	502807	502823						
	2	USS	502509	502526	502543	502562	502581	502598	502608	502624	502637	502650				
		SAE	502709	502726	502743	502762	502781	502798	502808	502824	502837	502850				
	2-1/4	USS	502510	502527	502544	502563	502582		502609	502625	502638					
		SAE	502710	502727	502744	502763	502782		502809	502825	502838					
	2-1/2	USS	502511	502528	502545	502564	502583	502600	502610	502626	502639	502652				
		SAE	502711	502728	502745	502764	502783	502800	502810	502826	502839	502852				
50	2-3/4	USS	502512	502529	502546	502565	502584		502611	502627	502640	502653				
		SAE	502712	502729	502746	502765	502784		502811	502827	502840	502853				
	3	USS	502513	502530	502547	502566	502585	502602	502612	502628	502641	502654				
		SAE	502713	502730	502747	502766	502785	502802	502812	502828	502841	502854				
30	3-1/4	USS	502514	502531	502548	502567	502586									
		SAE	502714	502731	502748	502767	502786									
	3-1/2	USS	502515	502532	502549	502568	502587	502603	502613	502630	502643	502656				
		SAE	502715	502732	502749	502768	502787	502803	502813	502830	502843	502856				
	4	USS	502517	502534	502551	502570	502589	502601	502615	502632	502645	502657				
		SAE	502717	502734	502751	502770	502789	502801	502815	502832	502845	502857				
20	4-1/2	USS	502519	502536	502552	502571	502590	502614	502616	502633	502646	502658				
		SAE	502719	502736	502752	502771	502790	502814	502816	502833	502846	502858				
	5	USS	502521	502538	502553	502572	502591	502618	502617	502634	502647	502659				
		SAE	502721	502738	502753	502772	502791	502818	502817	502834	502847	502859				
	5-1/2	USS	402201	402206	502555	502574	502592	502663	502662	502635	502648	502660				
		SAE	402401	402406	502755	502774	502792		502862	502835	502848	502860				
	6	USS	502533	502550	502554	502573	502593	502631	502619	502636	502649	502661				
		SAE	502733	502750	502754	502773	502793	502831	502819	502836	502849	502861				
10	6-1/2	USS	402202	402207	402211	402217	402101									
		SAE	402402	402407	402411	402417	402150									
	7	USS	402203	402208	402212	402218	402102									
		SAE	402403	402408	402412	402418	402151									
	7-1/2	USS	402204	402209	402213	402219	402103									
		SAE	402404	402409	402413	402419	402152									
	8	USS	402205	402210	402214	402220	402104									
		SAE	402405	402410	402414	402420	402153									

Not made by Infasco. Manufacturer and country of origin can only be determined at time of order.

		1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1			
HEX NUTS	USS	502675	502677	502679	502681	502683	502685	502687	502689	502691	502693			
	SAE	502676	502678	502680	502682	502684	502686	502688	502690	502692	502694			
	QTY	100	100	100	50	50	30	30	20	10	10			
LOCK WASHERS	ALL	504285	504286	504287	504288	504289	504290	504291	504292	504293	504294			
	QTY	100	100	100	100	100	50	50	25	25	25			
FLAT WASHERS	USS	504230	504231	504232	504233	504234	504235	504236	504237	504238	504239			
	SAE	504275	504276	504277	504278	504279	504280	504281	504282	504283	504284			
	QTY	200	200	200	100	100	100	50	25	25	25			
THREADS PER INCH	USS	20	18	16	14	13	12	11	10	9	8	7	7	6
	SAE	28	24	24	20	20	18	18	16	14	14	12	12	12

*** Black finish only.**

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ALLOY GRADE 8 CAP SCREWS / HEX NUTS / WASHERS

Not made by Infasco. Manufacturer and country of origin can only be determined at time of order.

Longer Lengths / Larger Diameters

- **Black finish.**
- **Sizes listed on this page are non-stock. Allow 2-3 weeks for delivery.**

CAP SCREWS

QTY	LENGTH		DIAMETER 3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2	1-3/4	2
	3	USS							502975	502983				
		SAE							402179	402461				
	3-1/2	USS							402242	402255				
		SAE							402180	402462				
	4	USS							502976	502984	402268	502991	402292	402307
		SAE							402181	402463	402482	402497		
	4-1/2	USS							402243	402256	402269	402283	402293	402308
		SAE							402182	402464	402483	402498		
	5	USS							502977	502985	402270	502992	402294	402309
		SAE							402183	402465	402484	402499		
	5-1/2	USS							402244	402257	402271	402284	402295	402310
		SAE							402184	402466	402485	402500		
	6	USS							502978	502986	402272	502993	402296	402311
		SAE							402185	402467	402486	402501		
	6-1/2	USS			402108	402115	402121	402126	402245	402258		402285		
		SAE			402154	402158	402162	402165	402186	402468		402502		
	7	USS			402109	402116	402122	402127	502979	502987	402273	502994	402297	402312
		SAE			402155	402159	402163	402166	402187	402469	402487	402503		
	7-1/2	USS			402110	402117	402140	402137	402246	402259				
		SAE			402156	402160	402450	402175	402188	402470				
	8	USS			402111	402118	402123	402128	502980	502988	402274	502995	402298	402313
		SAE			402157	402161	402164	402167	402189	402471	402488	402504		
	8-1/2	USS		402105	402112	402234	402141	402138	402247	402260				
		SAE		402421	402430	402440	402451	402176	402190	402472				
	9	USS	402215	402106	402113	402119	402124	402129	502981	502989	402275	502996	402299	402314
		SAE	402415	402422	402431	402441	402452	402177	402191	402473	402489	402505		
	9-1/2	USS		402221	402227	402235	402142	402139	402248	402261				
		SAE		402423	402432	402442	402453	402178	402192	402474				
	10	USS	402216	402107	402114	402120	402125	402130	502982	502990	402276	502997	402300	402315
		SAE	402416	402424	402433	402443	402454	402168	402193	402475	402490	402506		
	11	USS		402222	402228	402236	402143	402131	402249	402262	402277	402286	402301	402316
		SAE		402425	402434	402444	402455	402169	402194	402476	402491	402507		
	12	USS		402223	402229	402237	402144	402132	402250	402263	402278	402287	402302	402317
		SAE		402426	402435	402445	402456	402170	402195	402477	402492	402508		
	13	USS		402224	402230	402238	402145	402133	402251	402264	402279	402288	402303	402318
		SAE		402427	402436	402446	402457	402171	402196	402478	402493	402509		
	14	USS		402225	402231	402239	402146	402134	402252	402265	402280	402289	402304	402319
		SAE		402428	402437	402447	402458	402172	402197	402479	402494	402510		
	15	USS		402226	402232	402240	402147	402135	402253	402266	402281	402290	402305	402320
		SAE		402429	402438	402448	402459	402173	402198	402480	402495	402511		
	16	USS			402233	402241	402148	402136	402254	402267	402282	402291	402306	402321
		SAE			402439	402449	402460	402174	402199	402481	402496	402512		
HEX NUTS		USS	502679	502683	502687	502689	502691	502693	502695	502697	502671	502699	502673	502674
		SAE	502680	502684	502688	502690	502692	502694	502696	502698	502672	502670		
		QTY	100	50	30	20	10	10	1	1	1	1	1	1
LOCK WASHERS		ALL	504287	504289	504291	504292	504293	504294	504295	504296	504298	504297	50829	50830
		QTY	100	100	50	25	25	25	25	25	10	25	5	2
FLAT WASHERS		USS	504232	504234	504236	504237	504238	504239	504240	504241		504242		
		SAE	504277	504279	504281	504282	504283	504284	504272	504273	504326	504274	504327	504328
		QTY	200	100	50	25	25	25	25	25	10	25	5	26
THREADS PER INCH		USS	16	13	11	10	9	8	7	7	6	6	5	4-1/2
		SAE	24	20	18	16	14	14	12	12	12			

These sizes available in Zinc-Yellow Dichromate finish only. Please see listing on page A10-7

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GRADE 5 CAP SCREWS / HEX NUTS / WASHERS

Cap screws outlined in box below are not made by Infasco. Manufacturer and country of origin can only be determined at time of order.

Used universally by industrial, maintenance, automotive, and fleets.

- **Minimum tensile strength 120,000 PSI.**
- **Medium carbon steel, quenched & tempered.**
- **Sizes 1-1/8" x 3 to 1-1/2" x 12" are non-stock. Allow 2-3 weeks for delivery.**

CAP SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

QTY	LENGTH		DIAMETER 1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2
200	1/2	USS	502100	502111	502122										
		SAE	502300	502311	502322										
	5/8	USS	502257	502258	502259										
		SAE	502457	502458	502459										
	3/4	USS	502101	502112	502123	502135	502147								
		SAE	502301	502312	502323	502335	502347								
	1	USS	502102	502113	502124	502136	502148	502161	502174	502187					
		SAE	502302	502313	502324	502336	502348	502361	502374	502387					
	1-1/4	USS	502103	502114	502125	502137	502149	502162	502175	502188					
		SAE	502303	502314	502325	502337	502349	502362	502375	502388					
	1-1/2	USS	502104	502115	502126	502138	502150	502163	502176	502189	502200	502211			
		SAE	502304	502315	502326	502338	502350	502363	502376	502389	502400	502411			
	1-3/4	USS	502105	502116	502127	502139	502151	502164	502177	502190	502201	502212			
		SAE	502305	502316	502327	502339	502351	502364	502377	502390	502401	502412			
	2	USS	502106	502117	502128	502140	502152	502165	502178	502191	502202	502213			
		SAE	502306	502317	502328	502340	502352	502365	502378	502391	502402	502413			
100	2-1/4	USS	502222	502225	502230	502236	502242	502246	502247	502251	502255				
		SAE	502422	502425	502430	502436	502442	502446	502447	502451	502455				
	2-1/2	USS	502107	502118	502129	502141	502153	502166	502179	502192	502203	502214			
		SAE	502307	502318	502329	502341	502353	502366	502379	502392	502403	502414			
	2-3/4	USS	502223	502226	502231	502237	502243		502248	502252					
		SAE	502423	502426	502431	502437	502443		502448	502452					
	3	USS	502108	502119	502130	502142	502154	502167	502180	502193	502204	502215	402662	402677	
		SAE	502308	502319	502330	502342	502354	502367	502380	502393	502404	502415	402762	402777	
50	3-1/4	USS	502224	502227	502232	502238	502244		502249	502253	502256				
		SAE	502424	502427	502432	502438	502444		502449	502453	502456				
	3-1/2	USS	502109	502120	502131	502143	502155	502168	502181	502194	502205	502216	402663	402678	
		SAE	502309	502320	502331	502343	502355	502368	502381	502394	502405	502416	402763	402778	
	3-3/4	USS			502233	502239	502245		502250	502254					
		SAE			502433	502439	502445		502450	502454					
	4	USS	502110	502121	502132	502144	502156	502169	502182	502195	502206	502217	402664	402679	402692*
		SAE	502310	502321	502332	502344	502356	502369	502382	502395	502406	502417	402764	402779	
10	4-1/2	USS	402601	502228	502133	502145	502157	502170	502183	502196	502207	502218	402665	402680	402693*
		SAE	402701	502428	502333	502345	502357	502370	502383	502396	502407	502418	402765	402780	
	5	USS	402602	502229	502134	502146	502158	502171	502184	502197	502208	502219	402666	402681	402694*
		SAE	402702	502429	502334	502346	502358	502371	502384	502397	502408	502419	402766	402781	
	5-1/2	USS	402603	402609	502234	502240	502159	502172	502185	502198	502209	502220	402667	402682	402695*
		SAE	402703	402709	502434	502440	502359	502372	502385	502398	502409	502420	402767	402782	
	6	USS	402604	402610	502235	502241	502160	502173	502186	502199	502210	502221	402668	402683	402696*
		SAE	402704	402710	502435	502441	502360	502373	502386	502399	502410	502421	402768	402783	
	6-1/2	USS	402605	402611	402615	402619	402623		402630	402638	402646	402654	402669	402684	
		SAE	402705	402711	402715	402719	402723		402730	402738	402746	402754	402769	402784	
	7	USS	402606	402612	402616	402620	402624		402631	402639	402647	402655	402670	402685	402697*
		SAE	402706	402712	402716	402720	402724		402731	402739	402747	402755	402770	402785	
	7-1/2	USS	402607	402613	402617	402621	402625		402632	402640	402648	402656	402671	402686	
		SAE	402707	402713	402717	402721	402725		402732	402740	402748	402756	402771	402786	
	8	USS	402608	402614	402618	402622	402626		402633	402641	402649	402657	402672	402687	402698*
		SAE	402708	402714	402718	402722	402726		402733	402741	402749	402757	402772	402787	
5	8-1/2	USS					402627		402634	402642	402650	402658	402673	402688	
		SAE							402734	402742	402750	402758	402773	402788	
	9	USS					402628		402635	402643	402651	402659	402674	402689	
		SAE							402735	402743	402751	402759	402774	402789	
2	9-1/2	USS								402644	402652	402660	402675	402690	
		SAE								402744	402752	402760	402775	402790	
	10	USS					402629		402636	402645	402653	402661	402676	402691	402699*
		SAE							402736	402745	402753	402761	402776	402791	
	12	USS							402637						
		SAE							402737*						
HEX NUTS		USS	503260	503262	503264	503266	503268	503270	503272	503274	503276	503278	503280	503282	503284
		SAE	503261	503263	503265	503267	503269	503271	503273	503275	503277	503279	503281	503283	503285
		QTY	100	100	100	50	50	25	25	25	10	10	5	5	5
LOCK WASHERS		ALL	50815	50816	50817	50818	50819	50820	50821	50822	50823	50824	50825	50826	50827
		QTY	400	200	200	200	100	100	100	50	50	25	25	25	25
FLAT WASHERS		USS	50906	50907	50908	50909	50910	50911	50912	50913	50914	50915	50916	50917	50918
		SAE	50924	50925	50926	50927	50928	50929	50930	50931	50932	50933	50934	50935	50936
		QTY	400	200	200	200	100	100	100	50	50	25	25	25	25
THREADS PER INCH		USS	20	18	16	14	13	12	11	10	9	8	7	7	6
		SAE	28	24	24	20	20	18	18	16	14	14	12	12	12

*** Black finish only.**

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GRADE 2 CAP SCREWS

HEX HEAD CAP SCREWS, NUTS AND WASHERS

Used in light duty, low stress applications.

- **Low carbon steel - not heat treated.**
- **Available in coarse (USS) thread only.**
- **The "Shear Bolt" has special low strength properties that allow it to break or bend before expensive equipment is damaged.**

Protected by
LUSTERPLATE™
against rust & corrosion

CAP SCREWS

QTY	LENGTH		DIAMETER 1/4	5/16	3/8	7/16	1/2	5/8	3/4
200	1/2	USS	502901						
	3/4	USS	502902	502910					
	1	USS	502903	502911	502920	502929			
	1-1/2	USS	502904	502912	509921	502930	502938	502948	502957
	2	USS	502905	502913	502922	502931	502939	502949	502958
100	2-1/2	USS	502906	502914	502923	502932	502940	502950	502959
	3	USS	502907	502915	502924	502933	502941*	502951	502960
50	3-1/2	USS	502908	502916	502925	502934*	502942	502952	502961
	4	USS	502909	502917	502926	502935	502943	502953	502962
30	4-1/2	USS		502918	502927	502936	502944	502954	502963
	5	USS		502919	502928	502937	502945	502955	502964
25	5-1/2	USS					502946		
	6	USS					502947	502956	502965
HEX NUTS		USS	51205	51207	51209	51211	51213	51217	51219
		QTY	200	200	200	100	100	100	50
LOCK WASHERS		ALL	50815	50816	50817	50818	50819	50821	50822
		QTY	500	250	250	250	100	100	50
FLAT WASHERS		USS	50906	50907	50908	50909	50910	50912	50913
		SAE	50924	50925	50926	50927	50928	50930	50931
		QTY	500	250	250	250	100	100	50
THREADS PER INCH		USS	20	18	16	14	13	11	10

* NOTE: 502934 and 502941 - 40

FLAT HEAD SLOTTED CAP SCREWS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **USS (Coarse threads.)**
- **Low carbon steel.**

LENGTH	DIA. 1/2-13 PART NUMBER	QTY	DIA. 5/8-11 PART NUMBER	QTY	DIA. 3/4-10 PART NUMBER	QTY
1	504475	10	---	-	---	-
1-1/4	504476	10	504483	10	---	-
1-1/2	504477	10	504484	10	504492	5
1-3/4	504478	10	504485	10	504493	5
2	504479	10	504486	5	504494	5
2-1/4	504480	10	504487	5	504495	5
2-1/2	504481	10	504488	5	504496	5
3	504482	10	504489	5	504497	5
3-1/2	---	-	504490	5	504498	5
4	---	-	504491	5	504499	5

SOCKET HEAD CAP SCREW ASSORTMENTS

Manufactured from alloy steel, heat treated, with a Class 3A fully formed thread.

- **Contains the most popular sizes.**
- **Exceeds Grade 8 specifications.**
- **Includes 4 sizes of high collar lock washers.**
- **Sizes from 1/4" x 1/2" to 1/2" x 1-3/4".**
- **USS - Coarse thread.**

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BLACK OXIDE FINISH™
against rust & corrosion

Assortment Photo for illustration purposes only.
Actual Contents may vary.

Includes lock washers.
Part No. 501066
344 pieces • 20 items
12017 steel tray

503409	503421	503428	503448	504263
503411	503422	503430	503450	504264
503413	503423	503431	503451	504265
503415	503424	503432	503452	504267

Numbers in assortment

— OTHER SOCKET HEAD CAP SCREW ASSORTMENTS AVAILABLE —

- **501066, as well as 501318 and 501319 shown below comes in a sturdy steel tray which fits into both the 12007 and 12019 slide racks, part of our complete line of storage cabinets.**

MASTER ASSORTMENT
USS (COARSE) & SAE (FINE)
Part No. 501319
465 pieces • 31 items • 12062 steel tray

503398	503407	503956	503963	503970
503399	503408	503957	503964	503971
503401	503501	503958	503965	503972
503402	503502	503959	503966	
503404	503503	503960	503967	
503405	503504	503961	503968	
503406	503955	503962	503969	

Numbers in assortment

Sizes: No. 10-24 x 1/2" through 3/8" x 2"
Includes hex key wrenches.
USS (COARSE) & SAE (FINE)
Part No. 501318
144 pieces • 18 items • 12056 steel tray

113831	503405	503413	503423	503432
113832	503407	503416	503428	503434
113834	503409	503421	503430	
113835	503411	503422	503431	

Numbers in assortment

Sizes: No. 1/4" x 1/2" through 3/8" x 1-1/2"
USS (COARSE)
Part No. 503007
120 pieces • 12 items • 12038 plastic tray

503409	503415	503422	503430
503411	503420	503424	503431
503413	503421	503428	503432

Numbers in assortment

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SOCKET HEAD CAP SCREWS

SOCKET HEAD CAP SCREWS

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Used for precision work.

- **Alloy steel.**
- **Heat treated.**
- **Black finish.**
- **Class 3A fully formed thread.**
- **Manufactured to meet ANSI/ASME B18.3-1986 standards.**
- **Exceeds Grade 8 specifications.**

	DIA. 0 USS		DIA. 0 SAE		DIA. 1 USS		DIA. 1 SAE		DIA. 2 USS		DIA. 2 SAE		DIA. 3 USS		DIA. 3 SAE	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/8	---	-	504850	100	---	-	504854	100	---	-	---	-	---	-	---	-
3/16	---	-	504851	100	---	-	504855	100	504709	50	---	-	504713	50	---	-
1/4	---	-	504852	100	---	-	504856	100	504710	50	---	-	504714	50	---	-
3/8	---	-	504853	100	---	-	504857	100	504711	50	---	-	504715	50	---	-
1/2	---	-	---	-	---	-	---	-	504712	50	---	-	504716	50	---	-
KEY SIZES	.050 113804		.050 113804		1/16 113805		1/16 113805		5/64 113806		5/64 113806		5/64 113806		5/64 113806	

	DIA. 4 USS		DIA. 4 SAE		DIA. 5 USS		DIA. 5 SAE		DIA. 6 USS		DIA. 6 SAE		DIA. 8 USS		DIA. 8 SAE	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	504717	50	---	-	504722	50	---	-	503955	50	504858	50	503958	50	---	-
3/8	504718	50	---	-	504723	50	---	-	503956	50	504859	50	503959	50	---	-
1/2	504719	50	---	-	504724	50	---	-	503398	50	504860	50	503401	50	---	-
5/8	504720	50	---	-	504725	50	---	-	504727	50	504861	50	503960	50	---	-
3/4	504721	50	---	-	504726	50	---	-	503399	50	504862	50	503402	50	---	-
7/8	---	-	---	-	---	-	---	-	504728	50	---	-	504730	50	---	-
1	---	-	---	-	---	-	---	-	503957	50	---	-	503404	50	---	-
1-1/4	---	-	---	-	---	-	---	-	---	-	---	-	503961	50	---	-
1-1/2	---	-	---	-	---	-	---	-	---	-	---	-	503962	50	---	-
KEY SIZES	3/32 113807		3/32 113807		3/32 113807		3/32 113807		7/64 113808		7/64 113808		9/64 113810		9/64 113810	

	DIA. 10 USS		DIA. 10 SAE		DIA. 1/4 USS		DIA. 1/4 SAE		DIA. 5/16 USS		DIA. 5/16 SAE		DIA. 3/8 USS		DIA. 3/8 SAE	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	503963	50	503968	50	504732	50	504864	50	504737	50	---	-	---	-	---	-
1/2	503405	50	503501	50	503409	50	503505	50	503420	50	503512	50	504746	50	504872	50
5/8	503964	50	503969	50	503410	50	503506	50	504738	50	504868	50	504747	50	504873	50
3/4	503406	50	503502	50	503411	50	503507	50	503421	50	503513	50	503428	50	503519	50
7/8	504731	50	504863	50	503412	50	503508	50	504739	50	504869	50	503429	50	504874	50
1	503407	50	503503	50	503413	50	503509	50	503422	50	503514	50	503430	50	503520	50
1-1/4	503965	50	503970	50	503414	50	503510	50	503423	50	503515	50	503431	50	503521	50
1-1/2	503408	50	503504	50	503415	50	503511	50	503424	50	503516	50	503432	50	503522	50
1-3/4	503966	50	503971	50	503416	50	504865	50	503425	50	504870	50	503433	50	504875	50
2	503967	50	503972	50	503417	50	504866	50	503426	50	503517	50	503434	50	503523	50
2-1/4	---	-	---	-	503418	50	504867	50	504740	50	504871	50	503435	10	504876	10
2-1/2	---	-	---	-	503419	50	---	-	503427	50	503518	50	503436	10	504877	10
2-3/4	---	-	---	-	504733	50	---	-	504741	25	---	-	504748	10	---	-
3	---	-	---	-	504734	50	---	-	504742	25	---	-	503437	10	504878	10
3-1/4	---	-	---	-	---	-	---	-	504743	25	---	-	504749	10	---	-
3-1/2	---	-	---	-	504735	25	---	-	504744	25	---	-	504750	10	---	-
4	---	-	---	-	504736	25	---	-	504745	25	---	-	504751	10	---	-
4-1/2	---	-	---	-	---	-	---	-	---	-	---	-	504752	10	---	-
5	---	-	---	-	---	-	---	-	---	-	---	-	504753	10	---	-
6	---	-	---	-	---	-	---	-	---	-	---	-	504754	10	---	-
KEY SIZES	5/32 113811		5/32 113811		3/16 113812		3/16 113812		1/4 113814		1/4 113814		5/16 113815		5/16 113815	

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SOCKET HEAD CAP SCREWS

SOCKET HEAD CAP SCREWS

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	DIA. 7/16 USS		DIA. 7/16 SAE		DIA. 1/2 USS		DIA. 1/2 SAE		DIA. 5/8 USS		DIA. 5/8 SAE		DIA. 3/4 USS		DIA. 3/4 SAE	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	504755	25	---	-	504762	25	---	-	---	-	---	-	---	-	---	-
5/8	504756	25	---	-	504763	25	---	-	---	-	---	-	---	-	---	-
3/4	503438	25	---	-	503447	25	---	-	---	-	---	-	---	-	---	-
7/8	504757	25	---	-	504764	25	---	-	---	-	---	-	---	-	---	-
1	503439	25	504879	25	503448	25	504883	25	503460	10	504891	10	---	-	---	-
1-1/4	503440	25	504880	25	503450	25	504884	25	503461	10	504892	10	503472	10	---	-
1-1/2	503441	25	504881	25	503451	10	504885	10	503462	10	504893	10	503473	10	---	-
1-3/4	503442	25	---	-	503452	10	504886	10	503463	10	504894	10	503474	10	---	-
2	503443	10	504882	10	503453	10	504887	10	503464	10	504895	10	503475	10	---	-
2-1/4	503444	10	---	-	503454	10	504888	10	503465	10	---	-	504779	10	---	-
2-1/2	503445	10	---	-	503455	10	504889	10	503466	10	504896	10	503476	10	---	-
2-3/4	504758	10	---	-	503456	10	---	-	503467	10	---	-	504780	10	---	-
3	503446	10	---	-	503457	10	504890	10	503468	10	---	-	503477	10	---	-
3-1/4	504759	10	---	-	504765	10	---	-	---	-	---	-	---	-	---	-
3-1/2	504760	10	---	-	503458	10	---	-	504773	10	---	-	503478	10	---	-
4	504761	10	---	-	503459	10	---	-	503469	10	---	-	503479	10	---	-
4-1/2	---	-	---	-	504766	10	---	-	504774	10	---	-	504781	10	---	-
5	---	-	---	-	504767	10	---	-	503470	10	---	-	503480	10	---	-
5-1/2	---	-	---	-	504768	5	---	-	504775	5	---	-	504782	5	---	-
6	---	-	---	-	504769	5	---	-	503471	5	---	-	503481	5	---	-
6-1/2	---	-	---	-	504770	5	---	-	504776	5	---	-	504783	5	---	-
7	---	-	---	-	504771	5	---	-	504777	5	---	-	504784	5	---	-
8	---	-	---	-	504772	5	---	-	504778	5	---	-	504785	5	---	-
KEY SIZES	3/8 113816		3/8 113816		3/8 113816		3/8 113816		1/2 113818		1/2 113818		5/8 113820		5/8 113820	

	DIA. 7/8 USS		DIA. 7/8 SAE		DIA. 1 USS		DIA. 1 SAE		DIA. 1-1/4 USS		DIA. 1-1/4 SAE		DIA. 1-1/2 USS		DIA. 1-1/2 SAE	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
2	503482	10	---	-	503488	10	---	-	---	-	---	-	---	-	---	-
2-1/4	504786	10	---	-	503489	10	---	-	---	-	---	-	---	-	---	-
2-1/2	503483	10	---	-	503490	10	---	-	504799	1	---	-	---	-	---	-
2-3/4	504787	10	---	-	---	-	---	-	---	-	---	-	---	-	---	-
3	503484	10	---	-	503491	10	---	-	504800	1	---	-	504813	1	---	-
3-1/4	---	-	---	-	---	-	---	-	---	-	---	-	---	-	---	-
3-1/2	504788	10	---	-	503495	10	---	-	504801	1	---	-	504814	1	---	-
4	503485	10	---	-	503492	10	---	-	504802	1	---	-	504815	1	---	-
4-1/2	504789	10	---	-	504794	10	---	-	504803	1	---	-	504816	1	---	-
5	503486	10	---	-	503493	10	---	-	504804	1	---	-	504817	1	---	-
5-1/2	504790	5	---	-	504795	5	---	-	504805	1	---	-	504818	1	---	-
6	503487	5	---	-	503494	5	---	-	504806	1	---	-	504819	1	---	-
6-1/2	504791	5	---	-	504796	5	---	-	504807	1	---	-	504820	1	---	-
7	504792	2	---	-	504797	2	---	-	504808	1	---	-	504821	1	---	-
8	504793	2	---	-	504798	2	---	-	504809	1	---	-	504822	1	---	-
9	---	-	---	-	---	-	---	-	504810	1	---	-	504823	1	---	-
10	---	-	---	-	---	-	---	-	504811	1	---	-	504824	1	---	-
12	---	-	---	-	---	-	---	-	504812	1	---	-	504825	1	---	-
KEY SIZES	3/4 113821		3/4 113821		3/4 113821		3/4 113821		7/8 113822		7/8 113822		1 113823		1 113823	

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SOCKET CAP SCREWS

LOW HEAD SOCKET CAP SCREWS

Specifically for use in parts too thin for standard height socket cap screws and for applications with limited clearances.

Part No. 501579
264 pieces • 28 items
12062 steel tray

504901 504906 504911 504917 504924 504931
504902 504907 504912 504919 504925 504932
504903 504908 504913 504920 504926 504933
504904 504909 504914 504921 504927
504905 504910 504915 504922 504930

Numbers in assortment

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Head height 1/2 of standard socket head cap screws.**
- **Heat treated alloy steel.**
- **Class 3A.**
- **Coarse threads*.**
- **Manufactured to meet ANSI B18.3 -1986 standards.**
- **Exceeds Grade 8 specifications.**

Assortment Photo for illustration purposes only.
Actual Contents may vary.

HEAD HEIGHT	DIA. 8-32 .082 5/64 KEY		DIA. 10-24 .095 3/32 KEY		DIA. 10-32 .095 3/32 KEY		DIA. 1/4-20 .125 1/8 KEY		DIA. 5/16-18 .156 5/32 KEY		DIA. 3/8-16 .187 3/16 KEY		DIA. 1/2-13 .250 1/4 KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	**504901**	25	**504906**	25	**504911**	25	**504916**	25	---	-	---	-	---	-
1/2	**504902**	25	**504907**	25	**504912**	25	**504917**	25	**504922**	25	**504928**	25	---	-
5/8	**504903**	25	**504908**	25	**504913**	25	**504918**	25	**504923**	25	**504929**	25	---	-
3/4	**504904**	25	**504909**	25	**504914**	25	**504919**	25	**504924**	25	**504930**	25	**504934**	10
1	**504905**	-	**504910**	-	**504915**	25	**504920**	25	**504925**	25	**504931**	25	**504935**	10
1-1/4	---	-	---	-	---	-	**504921**	25	**504926**	25	**504932**	25	**504936**	10
1-1/2	---	-	---	-	---	-	---	-	**504927**	25	**504933**	25	**504937**	10
KEY #	**113806**		**113807**		**113807**		**113809**		**113811**		**113812**		**113814**	

***10-32 is fine thread**

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SOCKET CAP SCREWS

FLAT HEAD SOCKET CAP SCREWS

For precision work use socket head cap screws.

- **Exceeds Grade 8 specifications.**
- **Manufactured from alloy steel, heat treated, with a Class 3A fully formed thread. Meets ANSI/ASME B 18.3-1986 standards.**
- **Minimum tensile strength:**
  1/4 to 1/2 = 180,000 PSI
  1/2 & up = 170,000 PSI
- **Flat head provides a flush finish.**

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

Part No. 501316
285 pieces • 16 items
12050 steel tray

503525	503532	503538	503542
503526	503533	503539	503544
503527	503534	503540	503545
503531	503537	503541	503574

Numbers in assortment

Assortment Photo for illustration purposes only.
Actual Contents may vary.

INDIVIDUAL FLAT HEAD SOCKET CAP SCREWS

	DIA. 2-56 USS		DIA. 3-48 USS		DIA. 4-40 USS		DIA. 5-40 USS		DIA. 6-32 USS		DIA. 8-32 USS	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/16	507500	50	507504	50	---	-	---	-	---	-	---	-
1/4	507501	50	507505	50	507508	50	507513	50	507518	50	---	-
3/8	507502	50	507506	50	507509	50	507514	50	507519	50	507523	25
1/2	507503	50	507507	50	507510	50	507515	50	507520	50	503575	50
5/8	---	-	---	-	507511	50	507516	50	507521	50	507524	25
3/4	---	-	---	-	507512	50	507517	50	507522	50	507525	25
1	---	-	---	-	---	-	---	-	---	-	507526	25
KEY	.050		1/16		1/16		5/64		5/64		3/32	
SIZES	113804		113805		113805		113806		113806		113807	

	DIA. 3/16 (#10) USS		DIA. 3/16 (#10) SAE		DIA. 1/4 USS		DIA. 1/4 SAE		DIA. 5/16 USS		DIA. 5/16 SAE		DIA. 3/8 USS		DIA. 3/8 SAE	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	507527	25	503578	25	507532	25	503585	25	---	-	---	-	---	-	---	-
1/2	503576	50	503579	25	503525	50	503586	25	503531	50	503588	25	507539	25	---	-
5/8	507528	25	503580	25	507533	25	503587	25	507535	25	503589	25	507540	25	503590	25
3/4	507529	25	503581	25	503526	50	503557	50	503532	50	503561	50	503574	50	503565	50
1	503577	50	503582	25	503527	50	503558	50	503533	50	503562	50	503537	50	503566	50
1-1/4	507530	25	503583	25	503528	50	503559	50	503534	50	503563	50	503538	50	503567	50
1-1/2	507531	25	503584	25	503529	50	503560	50	503535	50	503564	50	503539	50	503568	50
1-3/4	---	-	---	-	507534	25	---	-	507536	15	---	-	507541	15	---	-
2	---	-	---	-	503530	50	---	-	503536	30	---	-	503540	30	---	-
2-1/4	---	-	---	-	---	-	---	-	507537	15	---	-	507542	15	---	-
2-1/2	---	-	---	-	---	-	---	-	507538	15	---	-	503541	30	---	-
3	---	-	---	-	---	-	---	-	---	-	---	-	507543	10	---	-
KEY	1/8		1/8		5/32		5/32		3/16		3/16		7/32		7/32	
SIZES	113809		113809		113811		113811		113812		113812		113813		113813	

	DIA. 7/16 USS		DIA. 7/16 SAE		DIA. 1/2 USS		DIA. 1/2 SAE		DIA. 5/8 USS		DIA. 5/8 SAE		DIA. 3/4 USS		DIA. 3/4 SAE	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/4	507544	10	---	25	507550	15	503569	30	---	-	---	-	---	-	---	-
1	507545	10	---	25	503542	20	503570	20	---	-	---	-	---	-	---	-
1-1/4	507546	10	---	25	503543	20	503571	20	503548	10	---	-	507555	5	---	-
1-1/2	507547	10	--	25	503544	20	503572	20	503549	10	---	-	503553	10	---	-
1-3/4	507548	10	---	-	507551	10	503591	10	507553	5	---	-	507556	5	---	-
2	507549	10	---	-	503545	20	503573	20	503550	10	---	-	503554	10	---	-
2-1/4	---	-	---	-	507552	5	---	-	507554	5	---	-	507557	5	---	-
2-1/2	---	-	---	-	503546	10	---	-	503551	10	---	-	503555	10	---	-
3	---	-	---	-	503547	10	---	-	503552	10	---	-	503556	10	---	-
KEY	1/4		1/4		5/16		5/16		3/8		3/8		1/2		1/2	
SIZES	113814		113814		113815		113815		113816		113816		113818		113818	

	THREADS PER INCH							
USS	24	20	18	16	14	13	11	10
SAE	32	28	24	24	20	20	18	16

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SOCKET HEAD CAP SCREWS

SOCKET HEAD SHOULDER SCREWS

Part No. 501640
145 pieces • 23 items
12017 steel tray

703201	703207	703214	703225	703239
703202	703208	703218	703232	703241
703203	703209	703220	703233	703243
703204	703211	703221	703235	
703205	703212	703223	703237	

Numbers in assortment

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Alloy steel.**
- **USS threads.**
- **Class 3A fully formed threads.**
- **Knurled head for sure grip.**
- **Meets or exceeds Grade 8 specifications.**
- **Minimum tensile strength:**
  1/4 to 1/2 = 180,000 PSI
  1/2 & up = 170,000 PSI

MOVING SHAFT OR PIVOT

STATIONARY GUIDE

PULLEY SHAFT USES

A SHOULDER DIA.	B THREAD DIA..	C SHOULDER LENGTH	PART NUMBER	QTY	A SHOULDER DIA.	B THREAD DIA.	C SHOULDER LENGTH	PART NUMBER	QTY
1/4	10-24	3/8	**703201**	24	3/8	5/16-18	3	**703227**	12
1/4	10-24	1/2	**703202**	24	3/8	5/16-18	3-1/2	**703228**	12
1/4	10-24	5/8	**703203**	24	3/8	5/16-18	4	**703229**	12
1/4	10-24	3/4	**703204**	24	1/2	3/8-16	1/2	**703230**	12
1/4	10-24	1	**703205**	24	1/2	3/8-16	5/8	**703231**	12
1/4	10-24	1-1/4	**703206**	24	1/2	3/8-16	3/4	**703232**	12
1/4	10-24	1-1/2	**703207**	24	1/2	3/8-16	1	**703233**	12
5/16	1/4-20	3/8	**703208**	24	1/2	3/8-16	1-1/4	**703234**	12
5/16	1/4-20	1/2	**703209**	24	1/2	3/8-16	1-1/2	**703235**	12
5/16	1/4-20	5/8	**703210**	24	1/2	3/8-16	1-3/4	**703236**	12
5/16	1/4-20	3/4	**703211**	24	1/2	3/8-16	2	**703237**	12
5/16	1/4-20	1	**703212**	24	5/8	1/2-13	1-1/4	**703238**	6
5/16	1/4-20	1-1/4	**703213**	24	5/8	1/2-13	1-1/2	**703239**	6
5/16	1/4-20	1-1/2	**703214**	24	5/8	1/2-13	1-3/4	**703240**	6
5/16	1/4-20	1-3/4	**703215**	24	5/8	1/2-13	2	**703241**	6
5/16	1/4-20	2	**703216**	24	5/8	1/2-13	2-1/4	**703242**	6
3/8	5/16-18	3/8	**703217**	24	5/8	1/2-13	2-1/2	**703243**	6
3/8	5/16-18	1/2	**703218**	24	5/8	1/2-13	3	**703244**	6
3/8	5/16-18	5/8	**703219**	24	5/8	1/2-13	3-1/2	**703245**	6
3/8	5/16-18	3/4	**703220**	24	5/8	1/2-13	4	**703246**	6
3/8	5/16-18	1	**703221**	24	3/4	5/8-11	1-1/2	**703247**	6
3/8	5/16-18	1-1/4	**703222**	24	3/4	5/8-11	1-3/4	**703248**	6
3/8	5/16-18	1-1/2	**703223**	24	3/4	5/8-11	2	**703249**	6
3/8	5/16-18	1-3/4	**703224**	24	3/4	5/8-11	2-1/2	**703250**	6
3/8	5/16-18	2	**703225**	24	3/4	5/8-11	3	**703251**	6
3/8	5/16-18	2-1/2	**703226**	12	3/4	5/8-11	3-1/2	**703252**	6

KEY SIZES: 1/4" dia. - 1/8 key; 5/16" dia. - 5/32 key; 3/8" dia. - 3/16 key; 1/2 dia. - 1/4 key; 5/8" dia. - 5/16 key; 3/4" dia. - 3/8 key

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SOCKET HEAD CAP SCREWS

BUTTON HEAD SOCKET CAP SCREWS

- Alloy steel, heat treated.
- Exceeds Grade 8 specifications.
- Low head height for streamline design.
- Maximum resistance to stretching, snapping, breaking or shearing.
- Use for all fastening applications.
- Minimum tensile strength 180,000 P.S.I.

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

Part No. 501639
407 pieces • 19 items
12071 steel tray

703255	703262	703270	703280
703257	703263	703272	703282
703259	703264	703274	703287
703260	703266	703276	703289
703261	703268	703278	

Numbers in assortment

	DIA. 2-56 USS		DIA. 3-48 USS		DIA. 4-40 USS		DIA. 6-32 USS		DIA. 8-32 SAE		DIA. 10-24 USS		DIA. 10-32 SAE		DIA. 1/4-20 USS	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/16	702050	50	702054	50	702058	50	---	-	---	-	---	-	---	-		
1/4	702051	50	702055	50	702059	50	702062	50	702063	50	702066	50	702075	50	702067	50
3/8	702052	50	702056	50	702060	50	703260	100	703263	100	703267	100	703254	100	703273	100
1/2	702053	50	702057	50	702061	50	703261	100	703264	100	703268	100	703255	100	703274	100
5/8	---	-	---	-	---	-	703262	100	703265	100	703269	100	703256	100	703275	100
3/4	---	-	---	-	---	-	---	-	703266	100	703270	100	703257	100	703276	100
7/8	---	-	---	-	---	-	---	-	702064	50	703271	100	703258	100	703277	100
1	---	-	---	-	---	-	---	-	702065	50	703272	100	703259	100	703278	100
KEY SIZES	.050		1/16		1/16		5/64		3/32		1/8		1/8		5/32	
	113804		113805		113805		113806		113807		113809		113809		113811	

	DIA. 1/4-28 SAE		DIA. 5/16-18 USS		DIA. 5/16-24 SAE		DIA. 3/8-16 USS		DIA. 3/8-24 SAE		DIA. 1/2-13 USS		DIA. 5/8-11 USS	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	702076	50	703279	100	702082	50	---	-	---	-	---	-	---	-
1/2	702077	50	703280	100	702083	50	703285	100	702088	50	---	-	---	-
5/8	702078	50	703281	100	702084	50	703286	100	702089	50	---	-	---	-
3/4	702079	50	703282	100	702085	50	703287	100	702090	50	---	-	---	-
7/8	702080	50	703283	100	702086	50	703288	100	702091	50	---	-	---	-
1	702081	50	703284	100	702087	50	703289	100	702092	50	703291	50	703295	25
1-1/4	---	-	---	-	---	-	703290	100	702093	50	703292	50	703296	25
1-1/2	---	-	---	-	---	-	---	-	---	-	703293	50	703297	25
2	---	-	---	-	---	-	---	-	---	-	703294	50	703298	25
KEY SIZES	5/32		3/16		3/16		7/32		7/32		5/16		3/8	
	113811		113812		113812		113813		113813		113815		113816	

TAMPERPROOF SOCKET CAP SCREWS

Prevents unauthorized removal of parts & equipment from vending machines, computers, telephone booths, electrical panels, control units, street signs, thermostats.

- Manufactured of heat treated alloy steel.
- Coarse threads*.
- Meets ANSI-B18.3 - 1986 specification.
- Non-destructive pin is formed by special cold-heading process.
- Minimum tensile strength 180,000 P.S.I.
- Meets or exceeds Grade 8 specifications.

Includes hex keys.
Part No. 501549
158 pieces • 27 items • 12056 steel tray

213716	213723	504510	504519	504533	504546
213717	213724	504512	504520	504534	504547
213719	504503	504514	504524	504535	
213720	504505	504515	504526	504539	
213721	504508	504517	504527	504540	

Numbers in assortment

	DIA. 4-40 3/32 KEY		DIA. 6-32 7/64 KEY		DIA. 8-32 9/64 KEY		DIA. 10-24 5/32 KEY		DIA. 10-32 5/32 KEY		DIA. 1/4-20 3/16 KEY		DIA. 5/16-18 1/4 KEY		DIA. 3/8-16 5/16 KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	504501	25	504506	25	---	-	---	-	---	-	---	-	---	-	---	-
3/8	504502	25	504507	25	504511	25	504516	25	504523	25	504530	25	---	-	---	-
1/2	504503	25	504508	25	504512	25	504517	25	504524	25	504531	25	504537	25	504543	25
5/8	504504	25	504509	25	504513	25	504518	25	504525	25	504532	25	504538	25	504544	25
3/4	504505	25	504510	25	504514	25	504519	25	504526	25	504533	25	504539	25	504545	25
1	---	-	---	-	504515	25	504520	25	504527	25	504534	25	504540	25	504546	25
1-1/4	---	-	---	-	---	-	504521	25	504528	25	504535	25	504541	25	504547	25
1-1/2	---	-	---	-	---	-	504522	25	504529	25	504536	25	504542	25	504548	25
KEY #	213716		213717		213719		213720		213720		213721		213723		213724	

*10-32 is fine thread

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SOCKET HEAD CAP SCREWS

TAMPERPROOF FLAT HEAD SOCKET CAP SCREWS

Includes hex keys.
Part No. 501550
156 pieces • 25 items • 12056 steel tray

213716	504552	504563	504573	504584
213718	504554	504564	504575	504588
213720	504557	504566	504576	504589
213721	504559	504568	504582	504595
213722	504561	504569	504583	504596

Numbers in assortment

	DIA. 4-40 3/32 KEY		DIA. 6-32 3/32 KEY		DIA. 8-32 3/32 KEY		DIA. 10-24 1/8 KEY		DIA. 10-32 1/8 KEY		DIA. 1/4-20 5/32 KEY		DIA. 5/16-18 3/16 KEY		DIA. 3/8-16 7/32 KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	504550	25	504555	25	---	-	---	-	---	-	---	-	---	-	---	-
3/8	504551	25	504556	25	504560	25	504565	25	504572	25	504579	25	---	-	---	-
1/2	504552	25	504557	25	504561	25	504566	25	504573	25	504580	25	504586	25	504592	25
5/8	504553	25	504558	25	504562	25	504567	25	504574	25	504581	25	504587	25	504593	25
3/4	504554	25	504559	25	504563	25	504568	25	504575	25	504582	25	504588	25	504594	25
1	---	-	---	-	504564	25	504569	25	504576	25	504583	25	504589	25	504595	25
1-1/4	---	-	---	-	---	-	504570	25	504577	25	504584	25	504590	25	504596	25
1-1/2	---	-	---	-	---	-	504571	25	504578	25	504585	25	504591	25	504597	25
KEY #	213716		213716		213716		213718		213718		213720		213721		213722	

TAMPERPROOF BUTTON HEAD SOCKET CAP SCREWS

Includes hex keys.
Part No. 501551
158 pieces • 25 items • 12056 steel tray

213716	504602	504610	504619	504627
213718	504603	504612	504621	504628
213720	504604	504614	504622	504630
213721	504606	504616	504624	504634
213722	504609	504617	504626	504635

Numbers in assortment

	DIA. 4-40 3/32 KEY		DIA. 6-32 3/32 KEY		DIA. 8-32 3/32 KEY		DIA. 10-24 1/8 KEY		DIA. 10-32 1/8 KEY		DIA. 1/4-20 5/32 KEY		DIA. 5/16-18 3/16 KEY		DIA. 3/8-16 7/32 KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	504601	25	504604	25	504608	25	---	-	---	-	---	-	---	-	---	-
3/8	504602	25	504605	25	504609	25	504613	25	504618	25	504623	25	---	-	---	-
1/2	504603	25	504606	25	504610	25	504614	25	504619	25	504624	25	504628	25	504632	25
5/8	---	-	504607	25	504611	25	504615	25	504620	25	504625	25	504629	25	504633	25
3/4	---	-	---	-	504612	25	504616	25	504621	25	504626	25	504630	25	504634	25
1	---	-	---	-	---	-	504617	25	504622	25	504627	25	504631	25	504635	25
1-1/4	---	-	---	-	---	-	---	-	---	-	---	-	---	-	504636	25
1-1/2	---	-	---	-	---	-	---	-	---	-	---	-	---	-	---	-
KEY #	213716		213716		213716		213718		213718		213720		213721		213722	

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NUTS

QUICK SIZE REFERENCE CHART (partial listing)

	No. 6	No. 8	No.10	No. 12	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	
L9®	---	---	---	---	602901	602902	602903	602904	602905	602906	602907	602908	USS
	---	---	---	---	602911	602912	602913	602914	602915	602916	602917	602918	SAE
Grade 8	---	---	---	---	502675	502677	502679	502681	502683	502685	502687	502689	USS
	---	---	---	---	502676	502678	502680	502682	502684	502686	502688	502690	SAE
Standard Grade	---	---	---	---	51205	51207	51209	51211	51213	51215	51217	51219	USS
	---	---	---	---	51206	51208	51210	51212	51214	51216	51218	51220	SAE
Grade 8 Prevail.	---	---	---	---	404101	404102	404103	404104	404105	404106	404107	404108	USS
Torque Lock	---	---	---	---	404115	404116	404117	404118	404119	404120	404121	404122	SAE
Grade 5 Prevail.	---	---	---	---	503125	503126	503127	503128	503129	503130	503131	503132	USS
Torque Lock	---	---	---	---	503135	503136	503137	503138	503139	503140	503141	503142	SAE
Nylon Lock	51149	51150	51151	51147	51153	51155	51157	51161	51159	51163	51165	51167	USS
	---	---	51152	---	51154	51156	51158	51162	51160	51164	51166	51168	SAE
SAE Hi-Nylon	---	---	---	---	---	---	---	---	---	---	---	---	USS
Lock	---	---	---	---	---	---	503392	---	503393	---	503394	503395	SAE
Galvanized	---	---	---	---	603130	603131	603132	---	603133	---	603134	---	USS
	---	---	---	---	---	---	---	---	---	---	---	---	SAE
Heavy	---	---	---	---	503301	503302	503303	503304	503305	503306	503307	503308	USS
	---	---	---	---	---	---	---	---	---	---	---	---	SAE
SAE Hi-nut	---	---	---	---	---	---	---	---	---	---	---	---	USS
	---	---	---	---	---	---	---	503356	503357	503358	503359	503360	SAE
A194-2H Heavy	---	---	---	---	---	---	---	---	503220	---	503221	503222	USS
	---	---	---	---	---	---	---	---	---	---	---	---	SAE
Machine Screw	51122	51123	51125	51126	51127	51130	51131	---	---	---	---	---	USS
	---	---	51124	---	---	---	---	---	---	---	---	---	SAE
Keps	51111	51112	51113	51121	51115	51117	51119	---	---	---	---	---	USS
	---	---	51114	---	51116	51118	51120	---	---	---	---	---	SAE
Jam	---	---	---	---	503315	503317	503319	503321	503323	503325	503327	503329	USS
	---	---	---	---	503316	503318	503320	503322	503324	503326	503328	503330	SAE
Slotted	---	---	---	---	503335	503337	503339	503341	503343	503346	503348	503350	USS
	---	---	---	---	503336	503338	503340	503342	503345	503347	503349	503351	SAE
Grade G Flange	---	---	---	---	---	---	703174	---	703175	---	703176	703177	USS
	---	---	---	---	---	---	703170	---	703171	---	703172	703173	SAE
Flange	---	---	720252	---	50620	50621	50622	50616	50617	---	50618	50619	USS
	---	---	---	---	50624	50625	50626	50627	50628	---	---	---	SAE
Acorn Cap	503200	503201	503202	---	503204	503205	503206	---	503207	---	---	---	USS
	---	---	503203	---	---	---	---	---	---	---	---	---	SAE
Square	---	---	---	---	503230	503231	503232	503233	503234	---	503235	503236	USS
	---	---	---	---	---	---	---	---	---	---	---	---	SAE
Forged Wing	51140	51141	51142	---	51143	51144	51145	51146	51137	---	51138	51139	USS
	---	---	51136	---	---	--	---	---	---	---	---	---	SAE
Stamped Wing	---	503374	503375	503377	503378	503379	---	---	---	---	---	---	USS
	---	---	---	---	---	---	---	---	---	---	---	---	SAE
Tee	---	603101	603102	---	603104	603105	603106	---	---	---	---	---	USS
	---	---	603107	---	---	---	---	---	---	---	---	---	SAE
Wrench size*	5/16	11/32	3/8	7/16	7/16	1/2	9/16	11/16	3/4	7/8	15/16	1-1/8	

***Wrench sizes may vary from this chart, so use this only as a guideline for choosing nuts.**

NOT ALL AVAILABLE SIZES AND STYLES ARE SHOWN. CHECK FOLLOWING PAGES FOR COMPLETE LISTINGS.

SUPRALLOY L9® HEX NUTS

Protected by
CADMIUM WAXED YELLOW DICHROMATE™
against rust & corrosion

For use with L9® Cap Screws

- **Minimum 180,000 PSI proof load.**
- **Extra thickness offers a larger wrench pad for high torque application.**
- **Plated with Yellow Cadmium Dichromate & wax providing excellent corrosion protection as well as proper lubrication for torque values.**

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT/HEGHT MIN.	QTY
1/4	**602901**	**602911**	7/16	1/4	50
5/16	**602902**	**602912**	1/2	5/16	50
3/8	**602903**	**602913**	9/16	3/8	50
7/16	**602904**	**602914**	11/16	7/16	25
1/2	**602905**	**602915**	3/4	1/2	25

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT/HEGHT MIN.	QTY
9/16	**602906**	**602916**	7/8	9/16	15
5/8	**602907**	**602917**	15/16	5/8	15
3/4	**602908**	**602918**	1-1/8	3/4	10
7/8	**602909**	**602919**	1-5/16	7/8	5
1	**602910**	**602920**	1-1/2	1	5

Asst. No. 601092 is shown here.

Sizes: 1/4" through 1"
USS (COARSE)
Part No. 601089
109 pieces • 10 items
12038 plastic tray

602901 602904 602907 602910
602902 602905 602908
602903 602906 602909

Numbers in assortment

Sizes: 1/4" through 1"
SAE (FINE)
Part No. 601090
109 pieces • 10 items
12038 plastic tray

602911 602914 602917 602920
602912 602915 602918
602913 602916 602919

Numbers in assortment

MASTER ASSORTMENT
Sizes: 1/4" through 1"
USS (COARSE) & SAE (FINE)
Part No. 601092
204 pieces • 20 items • 12071 steel tray

602901 602905 602909 602913 602917
602902 602906 602910 602914 602918
602903 602907 602911 602915 602919
602904 602908 602912 602916 602920

Numbers in assortment

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NUTS

*Product standards require all grade-marked nuts 1/4" diameter and larger to have a raised or depressed insignia identifying its manufacturer. "X" represents one location such an insignia may appear.

GRADE 8 ALLOY HEX NUTS

For use with Grade 8 Cap Screws

- **Minimum 150,000 PSI proof load.**

Protected by **ZINC-YELLOW DICHROMATE™** against rust & corrosion

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**502675**	**502676**	7/16	7/32	100
5/16	**502677**	**502678**	1/2	17/64	100
3/8	**502679**	**502680**	9/16	21/64	100
7/16	**502668***	**502669†**	5/8	3/8	25
7/16	**502681**	**502682**	11/16	3/8	50
1/2	**502683**	**502684**	3/4	7/16	50
9/16	**502685**	**502686**	7/8	31/64	30
5/8	**502687**	**502688**	15/16	35/64	30
3/4	**502689**	**502690**	1-1/8	41/64	20

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
7/8	**502691**	**502692**	1-5/16	3/4	10
1	**502693**	**502694**	1-1/2	55/64	10
1-1/8	**502695**	**502696**	1-11/16	31/32	1
1-1/4	**502697**	**502698**	1-7/8	1-1/16	1
1-3/8	**502671**	**502672**	2-1/16	1-11/64	1
1-1/2	**502699**	**502670**	2-1/4	1-9/32	1
1-3/4	**502673**	**---**	2-5/8	1-1/2	1
2	**502674**	**---**	3	1-23/32	1
--	**---**	**---**	--	--	-

† Not included in assortments.

Approved style of grade marking as issued by SAE J995, revised July 1999.

Sizes: 1/4" through 9/16"
USS (COARSE)
Part No. 502001
103 pieces • 6 items
12028 plastic tray

502675	502679	502683
502677	502681	502685

Numbers in assortment

Sizes: 1/4" through 9/16"
SAE (FINE)
Part No. 502002
103 pieces • 6 items
12028 plastic tray

502676	502680	502684
502678	502682	502686

Numbers in assortment

MASTER ASSORTMENT
Sizes: 1/4" through 1"
USS (COARSE) & SAE (FINE)
Part No. 501092
204 pieces • 20 items • 12071 steel tray

502675	502679	502683	502687	502691
502676	502680	502684	502686	502692
502677	502681	502685	502689	502693
502678	502682	502686	502690	502694

Numbers in assortment

Asst. No. 501092 is shown here.

GRADE 5 HEX NUTS

For use with Grade 5 Cap Screws

- **Minimum proof load**
  USS 1/4 - 1" = 120,000 PSI USS 1 - 1-1/2" = 105,000 PSI SAE 1/4 - 1" = 109,000 PSI SAE 1 - 1-1/2" = 94,000 PSI

Protected by **LUSTERPLATE™** against rust & corrosion

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**503260**	**503261**	7/16	7/32	100
5/16	**503262**	**503263**	1/2	17/64	100
3/8	**503264**	**503265**	9/16	21/64	100
7/16	**503266**	**503267**	11/16	3/8	50
1/2	**503268**	**503269**	3/4	7/16	50
9/16	**503270**	**503271**	7/8	31/64	25
5/8	**503272**	**503273**	15/16	35/64	25
3/4	**503274**	**503275**	1-1/8	41/64	25
7/8	**503276**	**503277**	1-5/16	3/4	10
1	**503278**	**503279**	1-1/2	55/64	10
1-1/8	**503280**	**503281**	1-11/16	31/32	5
1-1/4	**503282**	**503283**	1-7/8	1-1/16	5
1-1/2	**503284**	**503285**	2-1/4	1-9/32	5

Asst. No. 501530 is shown here.

Approved style of grade marking as issued by SAE J995, revised July 1999.

Sizes: 1/4" through 9/16"
USS (COARSE)
Part No. 503026
103 pieces • 6 items
12028 plastic tray

503260	503264	503268
503262	503266	503270

Numbers in assortment

Sizes: 1/4" through 9/16"
SAE (FINE)
Part No. 503027
103 pieces • 6 items
12028 plastic tray

503261	503265	503269
503263	503267	503271

Numbers in assortment

MASTER ASSORTMENT
Sizes: 1/4" through 1"
USS (COARSE) & SAE (FINE)
Part No. 501530
204 pieces • 20 items • 12071 steel tray

503260	503264	503268	503272	503276
503261	503265	503269	503273	503277
503262	503266	503270	503274	503278
503264	503267	503271	503275	503279

Numbers in assortment

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NUTS

STANDARD GRADE HEX NUTS

Protected by
LUSTERPLATE™
against rust & corrosion

For use with Grade 5 or Lower Cap Screws & Bolts

- **Minimum 90,000 PSI proof load.**

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**51205**	**51206**	7/16	7/32	200
5/16	**51207**	**51208**	1/2	17/64	200
3/8	**51209**	**51210**	9/16	21/64	200
7/16	**51231***	**51232***	5/8	3/8	50
7/16	**51211**	**51212**	11/16	3/8	100
1/2	**51213**	**51214**	3/4	7/16	100
9/16	**51215**	**51216**	7/8	31/64	100
5/8	**51217**	**51218**	15/16	35/64	100
3/4	**51219**	**51220**	1-1/8	41/64	50
7/8	**51221**	**51222**	1-5/16	3/4	20
1	**51223**	**51224**	1-1/2	55/64	20
1-1/8	**51225**	**51226**	1-11/16	31/32	20
1-1/4	**51227**	**51228**	1-7/8	1-1/16	20
1-1/2	**51229**	**51230**	2-1/4	1-9/32	10

*** Not included in assortments.**

Asst. No. 51202 is shown here.

MASTER ASSORTMENT
Sizes: 1/4" through 1"
USS (COARSE)
Part No. 501614
195 pieces • 10 items • 12061 steel tray

51205	**51209**	**51213**	**51217**	**51221**
51207	**51211**	**51215**	**51219**	**51223**

Numbers in assortment

Sizes: 1/4" through 9/16"
USS (COARSE)
Part No. 51201
150 pieces • 6 items
12028 plastic tray

51205	**51209**	**51213**
51207	**51211**	**51215**

Numbers in assortment

Sizes: 1/4" through 9/16"
SAE (FINE)
Part No. 51202
150 pieces • 6 items
12028 plastic tray

51206	**51210**	**51214**
51208	**51212**	**51216**

Numbers in assortment

L9® PREVAILING TORQUE LOCK NUTS

Protected by
CADMIUM WAXED YELLOW DICHROMATE™
against rust & corrosion

Withstands severe vibration and shock in critical areas. Also suitable for high temperature environments.

- **Proof stress 150,000 PSI maximum.**
- **For use with L9® cap screws.**
- **Meets IFI, ANSI and SAE specs.**

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	MAX TORQUE (FT/LBS) USS	MAX. TORQUE (FT/LBS) SAE	QTY
1/4	**602921**	**602931**	7/16	10.5	10.5	50
5/16	**602922**	**602932**	1/2	16.0	17.0	50
3/8	**602923**	**602933**	9/16	29.0	30.0	50
7/16	**602924**	**602934**	11/16	44.0	45.0	25
1/2	**602925**	**602935**	3/4	66.0	69.0	25
9/16	**602926**	**602936**	7/8	95.0	100.0	25
5/8	**602927**	**602937**	15/16	122.5	130.0	25
3/4	**602928**	**602938**	1-1/8	210.0	210.0	10
7/8	**602929**	**602939**	1-5/16	310.0	310.0	5
1	**602930**	**602940**	1-1/2	460.0	495.0	5

GRADE 8 PREVAILING TORQUE LOCK NUTS

Protected by
LUSTERPLATE™
against rust & corrosion

Withstands severe vibration and shock in critical areas. Also suitable for high temperature environments.

- **Proof stress 150,000 PSI maximum. For use with Grade 8 cap screws, B-7 rods and studs.**
- **Meets IFI, ANSI and SAE specs for Class 'C'.**

Sizes: 1/4" through 3/4"
USS (COARSE) & SAE (FINE)
Part No. 501095L
280 pieces • 16 items
12050 steel tray

404101	**404105**	**404115**	**404119**
404102	**404106**	**404116**	**404120**
404103	**404107**	**404117**	**404121**
404104	**404108**	**404118**	**404122**

1/2 QUANTITY AVAILABLE ORDER NO. 501095M
Numbers in assortment

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	MAX TORQUE (FT/LBS) USS	MAX. TORQUE (FT/LBS) SAE	QTY
1/4	**404101**	**404115**	7/16	10.5	10.5	50
5/16	**404102**	**404116**	1/2	16.0	17.0	50
3/8	**404103**	**404117**	9/16	29.0	30.0	50
7/16	**404104**	**404118**	11/16	44.0	45.0	50
1/2	**404105**	**404119**	3/4	66.0	69.0	24
9/16	**404106**	**404120**	7/8	95.0	100.0	24
5/8	**404107**	**404121**	15/16	122.5	130.0	20
3/4	**404108**	**404122**	1-1/8	210.0	210.0	20
7/8	**404109**	**404123**	1-5/16	310.0	310.0	8
1	**404110**	**404124**	1-1/2	460.0	495.0	8

GRADE 5 PREVAILING TORQUE LOCK NUTS

Protected by
LUSTERPLATE™
against rust & corrosion

Used wherever there are vibration problems. Trucks, automobile, factories, farming, construction.

- **Proof stress 120,000 PSI maximum. For use with Grade 5 cap screws.**
- **Meets IFI, ANSI and SAE specs and MS-51922, MS-51943, MS-51988, MS-21045, MS-21046, NAS-1408, NAS-1409.**

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	MAX TORQUE (FT/LBS) USS	MAX. TORQUE (FT/LBS) SAE	QTY
1/4	**503125**	**503135**	7/16	7.0	7.25	50
5/16	**503126**	**503136**	1/2	13.5	13.5	50
3/8	**503127**	**503137**	9/16	19.5	22.0	50
7/16	**503128**	**503138**	11/16	33.5	33.5	50
1/2	**503129**	**503139**	3/4	50.0	52.0	25
9/16	**503130**	**503140**	7/8	69.0	75.0	25
5/8	**503131**	**503141**	15/16	95.0	97.5	20
3/4	**503132**	**503142**	1-1/8	155.0	165.0	20

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NUTS

NYLON INSERT JAM LOCK NUTS

Protected by **LUSTERPLATE™** against rust & corrosion

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
No. 2	**514101**	---	1/4	7/64	50
No. 3	**514102**	---	1/4	7/64	50
No. 4	**514103**	**514123**	1/4	7/64	50
No. 5	**514104**	**514124**	1/4	7/64	50
No. 6	**514105**	**514125**	1/4	7/64	50
No. 8	**514106**	**514126**	11/32	11/64	50
No. 10*	**514107**	**514127**	3/8	11/64	50
No. 12	**514108**	---	7/16	13/64	50
1/4	**514109**	**514129**	7/16	13/64	50
5/16	**514110**	**514130**	1/2	1/4	50
3/8	**514111**	**514131**	9/16	17/64	25
7/16	**514112**	**514132**	5/8	5/16	25
1/2	**514113**	**514133**	3/4	5/16	25
9/16	**514114**	**514134**	7/8	23/64	10
5/8	**514115**	**514135**	15/16	25/64	10
3/4	**514116**	**514136**	1-1/6	13/32	10
7/8	**514117**	**514137**	1-1/4	15/32	10
1	**514118**	**514138**	1-7/16	35/64	10

*** 3/16 size**

- **Positive locking action resists vibration.**
- **Reusable. Nylon collar actually recovers.**
- **For use with Grade 2 & 5 fasteners.**

Sizes: 6-32 through 1"
USS (COARSE) & SAE (FINE)
Part No. 501554
219 pieces • 22 items
12017 steel tray

514105	514111	514117	514131	514137
514106	514112	514118	514132	514138
514107	514113	514127	514133	
514109	514115	514129	514135	
514110	514116	514130	514136	

Numbers in assortment

NYLON INSERT HEAVY LOCK NUTS

Protected by **LUSTERPLATE™** against rust & corrosion

SIZE	PART NO. USS THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**514140**	1/2	3/8	50
5/16	**514141**	9/16	7/16	50
3/8	**514142**	11/16	35/64	25
7/16	**514143**	7/8	45/64	25
1/2	**514144**	7/8	45/64	25
9/16	**514145**	15/16	51/64	10
5/8	**514146**	1-1/16	55/64	10
3/4	**514147**	1-1/4	1	5
7/8	**514148**	1-7/16	1-1/8	5
1	**514149**	1-5/8	1-9/32	5

- **Positive locking action resists vibration.**
- **Reusable. Nylon collar actually recovers.**
- **For use with Grade 2 & 5 fasteners.**

Sizes: 1/4" through 1"
USS (COARSE)
Part No. 501555
96 pieces • 9 items
12061 steel tray

514140	514142	514144	514147	514149
514141	514143	514146	514148	

Numbers in assortment

Sizes: 1/4" through 1/2"
USS (COARSE)
Part No. 514002
55 pieces • 5 items
12028 plastic tray

514140	514141	514142	514143	514144

Numbers in assortment

GRADE 8 NYLON INSERT LOCK NUTS

Protected by **LUSTERPLATE™** against rust & corrosion

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**514150**	**514160**	7/16	5/16	10
5/16	**514151**	**514161**	1/2	11/32	10
3/8	**514152**	**514162**	9/16	29/64	10
7/16	**514153**	**514163**	5/8	29/64	10
1/2	**514154**	**514164**	3/4	19/32	10
9/16	**514155**	**514165**	7/8	41/64	5
5/8	**514156**	**514166**	15/16	3/4	5
3/4	**514157**	**514167**	1-1/16	7/8	5
7/8	**514158**	**514168**	1-1/4	63/64	2
1	**514159**	**514169**	1-7/16	1-3/64	2

VALUE PACK
BOX OF 25
VOLUME USER DISCOUNT

- **Minimum proof load - 150,000 PSI.**
- **Positive locking action resists vibration.**
- **Reusable. Nylon collar actually recovers.**
- **For use with Grade 8 fasteners.**

Assortment Photo for illustration purposes only.
Actual Contents may vary.

Sizes: 1/4" through 1"*
***9/16" not included**
USS (COARSE)
Part No. 501566
96 pieces • 9 items • 12061 steel tray

514150	514152	514154	514157	514159
514151	514153	514156	514158	

Numbers in assortment

Sizes: 1/4" through 1"*
***9/16" not included**
SAE (FINE)
Part No. 501567
96 pieces • 9 items • 12061 steel tray

514160	514162	514164	514167	514169
514161	514163	514166	514168	

Numbers in assortment

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GRADE 5 NYLON INSERT LOCK NUTS

Protected by
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- **Minimum proof load - USS 120,000 PSI & SAE 109,000 PSI.**
- **Positive locking action resists vibration.**
- **Reusable. Nylon collar actually recovers.**
- **For use with Grade 5 fasteners.**

Assortment Photo for illustration purposes only.
Actual Contents may vary.

VALUE PACK
BOX OF 25
VOLUME USER
DISCOUNT

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**514175**	**514185**	7/16	5/16	10
5/16	**514176**	**514186**	1/2	11/32	10
3/8	**514177**	**514187**	9/16	29/64	10
7/16	**514178**	**514188**	5/8	29/64	10
1/2	**514179**	**514189**	3/4	19/32	10
9/16	**514180**	**514190**	7/8	41/64	5
5/8	**514181**	**514191**	15/16	3/4	5
3/4	**514182**	**514192**	1-1/16	7/8	5
7/8	**514183**	**514193**	1-1/4	63/64	2
1	**514184**	**514194**	1-7/16	1-3/64	2

Sizes: 1/4" through 1"*
***9/16" not included**
USS (COARSE)
Part No. 501568
96 pieces • 9 items • 12061 steel tray

514175 514177 514179 514182 514184
514176 514178 514181 514183

Numbers in assortment

Sizes: 1/4" through 1/2"
USS (COARSE)
Part No. 514005
55 pieces • 5 items
12028 plastic tray

514175 514177 514179
514176 514178

Numbers in assortment

Sizes: 1/4" through 1/2"
SAE (FINE)
Part No. 514006
55 pieces • 5 items
12028 plastic tray

514185 514187 514189
514186 514188

Numbers in assortment

NYLON INSERT LOCK NUTS

Sizes: 1/4" through 1/2"
USS (COARSE) & SAE (FINE)
Part No. 51106
118 pieces • 10 items
12027 plastic tray

51153 51155 51157 51159 51161
51154 51156 51158 51160 51162

Numbers in assortment

Sizes: No. 4 through 1"
USS (COARSE)
Part No. 501616
398 pieces • 16 items
12050 steel tray

51147 51150 51153 51159 51165 51188
51148 51151 51155 51161 51167
51149 51152 51157 51163 51169

Numbers in assortment

Protected by
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against rust & corrosion

- **Positive locking action resists vibration.**
- **Reusable. Nylon collar actually recovers.**
- **For use with Grade 2 & 5 fasteners.**

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
No. 4	**51148**	---	1/4	9/64	100
No. 6	**51149**	---	5/16	3/16	100
No. 8	**51150**	---	11/32	15/64	100
10-24*	**51151**	---	3/8	15/64	50
10-32*	---	**51152†**	3/8	15/64	50
No. 12	**51147**	---	7/16	5/16	100
1/4	**51153**	**51154**	7/16	5/16	100
5/16	**51155**	**51156**	1/2	11/32	100
3/8	**51157**	**51158**	9/16	29/64	50
7/16	**51161**	**51162**	5/8	29/64	50
1/2	**51159**	**51160**	3/4	19/32	50
9/16	**51163**	**51164**	7/8	41/64	24
5/8	**51165**	**51166**	15/16	3/4	24
3/4	**51167**	**51168**	1-1/16	7/8	10
7/8	**51169**	**51170**	1-1/4	63/64	10
1	**51188**	**51189**	1-7/16	1-3/64	10

***3/16 size †Also contained in Asst. No. 501616**

SAE HI-NYLON LOCK NUTS

- **SAE (fine) thread.**
- **Remains locked where other nuts fail.**
- **Extra high nut height for an increased gripping area.**

Sizes: 3/8" through 3/4"
Part No. 503015
16 pieces • 4 items
12034 plastic tray

503392 503394
503393 503395

Numbers in assortment

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SIZE	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
3/8	**503392**	9/16	41/64	12
1/2	**503393**	3/4	13/16	6
5/8	**503394**	15/16	1	6
3/4	**503395**	1-1/16	1-1/4	6
7/8	**503396**	1-1/4	1-7/16	3
1	**503397**	1-7/16	1-43/64	3

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NUTS

GRADE 2 LEFT HAND THREAD HEX NUTS

Specifically for equipment, machinery or anything that rotates.

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**514201**	**514214**	7/16	7/32	25
5/16	**514202**	**514215**	1/2	17/64	25
3/8	**514203**	**514216**	9/16	21/64	25
7/16*	**514204**	**514217**	11/16	3/8	25
1/2	**514205**	**514218**	3/4	7/16	10
9/16*	**514206**	**514219**	7/8	31/64	10
5/8	**514207**	**514220**	15/16	35/64	10
3/4	**514208**	**514221**	1-1/8	41/64	5
7/8	**514209**	**514222**	1-5/16	3/4	5
1	**514210**	**514223**	1-1/2	55/64	5
1-1/8	**514211**	**514224**	1-11/16	31/32	2
1-1/4	**514212**	**514225**	1-7/8	1-1/16	2
1-1/2	**514213**	**514226**	2-1/4	1-9/32	2

*** Not included in assortment.**

- **Left hand threads prevents nut from coming off.**
- **Minimum 90,000 PSI proof load.**

Sizes: 1/4" through 5/8"
USS (COARSE) & SAE (FINE)
Part No. 514007
38 pieces • 10 items
12030 plastic tray

514201 514203 514207 514215 514217
514202 514205 514214 514216 514218
Numbers in assortment

GRADE 5 LEFT HAND THREAD HEX NUTS

Specifically for equipment, machinery or anything that rotates.

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**514250**	**514263**	7/16	7/32	25
5/16	**514251**	**514264**	1/2	17/64	25
3/8	**514252**	**514265**	9/16	21/64	25
7/16*	**514253**	**514266**	11/16	3/8	25
1/2	**514254**	**514267**	3/4	7/16	10
9/16*	**514255**	**514268**	7/8	31/64	10
5/8	**514256**	**514269**	15/16	35/64	10
3/4	**514257**	**514270**	1-1/8	41/64	5
7/8	**514258**	**514271**	1-5/16	3/4	5
1	**514259**	**514272**	1-1/2	55/64	5
1-1/8	**514260**	**514273**	1-11/16	31/32	2
1-1/4	**514261**	**514274**	1-7/8	1-1/16	2
1-1/2	**514262**	**514275**	2-1/4	1-9/32	2

*** Not included in assortment.**

- **Left hand threads prevents nut from coming off.**
- **Minimum proof load**
  - **USS 1/4 - 1" = 120,000 PSI**
  - **SAE 1/4 - 1" = 109,000 PSI**
  - **USS 1 - 1-1/2" = 105,000 PSI**
  - **SAE 1 - 1-1/2" = 94,000 PSI**

Sizes: 1/4" through 5/8"
USS (COARSE) & SAE (FINE)
Part No. 514008
38 pieces • 10 items
12030 plastic tray

514250 514252 514256 514264 514267
514251 514254 514263 514265 514269
Numbers in assortment

GALVANIZED HEX NUTS

SIZE	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**603130**	7/16	5/16	50
5/16	**603131**	1/2	11/32	50
3/8	**603132**	9/16	29/64	50
1/2	**603133**	3/4	19/32	25
5/8	**603134**	15/16	3/4	10

- **USS (coarse) thread.**
- **Hot dipped galvanized for superior corrosion resis⁷**
- **Tapped oversize.**
- **Used with galvanized bolts.**

Part No. 601050
98 pieces • 5 items
12028 plastic tray

603130 603132 603134
603131 603133
Numbers in assortment

HEAVY HEX NUTS

SIZE	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**503301**	1/2	15/64	50
5/16	**503302**	9/16	19/64	50
3/8	**503303**	11/16	23/64	50
7/16	**503304**	3/4	27/64	50
1/2	**503305**	7/8	31/64	50
9/16	**503306**	15/16	35/64	12
5/8	**503307**	1-1/16	39/64	12
3/4	**503308**	1-1/4	47/64	6
7/8	**503309**	1-7/16	55/64	6
1	**503310**	1-5/8	63/64	4

- **USS (coarse) thread.**

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Sizes: 1/4" through 9/16"
Part No. 503019
74 pieces • 6 items
12028 plastic tray

503301 503303 503305
503302 503304 503306
Numbers in assortment

SAE HI-NUTS

SIZE	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
7/16	**503356**	5/8	39/64	12
1/2	**503357**	3/4	11/16	12
9/16	**503358**	7/8	49/64	12
5/8	**503359**	15/16	27/32	12
3/4	**503360**	1-1/8	1	6
7/8	**503361**	1-5/16	1-5/32	6
1	**503362**	1-1/2	1-5/16	6

- **SAE (fine) thread.**

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NUTS

A194-2H HEAVY HEX NUTS

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- **Heat treated to withstand 1100°F temperatures.**
- **USS (coarse) threads.**
- **Use with A193 B-7 studs and rod.**
- **Meets ASTM - 194 specs.**
- **Black oxide finish.**
- **175m PSI.**

SIZE/ THREAD	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
1/2-13	**503220**	7/8	31/64	12
5/8-11	**503221**	1-1/16	39/64	12
3/4-10	**503222**	1-1/4	47/64	12
7/8-9	**503223**	1-7/16	55/64	12
1-8	**503224**	1-5/8	63/64	12
1-1/8-8	**503225**	1-13/16	1-7/64	12
1-1/4-8	**503226**	2	1-7/32	12
1-1/2-8	**503227**	2-3/8	1-15/32	12

MACHINE SCREW NUTS

Protected by
LUSTERPLATE™
against rust & corrosion

Sizes: No. 6 through 1/4"
Part No. 51105
420 pieces • 6 items
12028 plastic tray

51122	**51124**	**51126**
51123	**51125**	**51127**

Numbers in assortment

SIZE	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
4-40	**51128**	1/4	3/32	200
6-32	**51122**	5/16	7/64	200
8-32	**51123**	11/32	1/8	200
10-32*†	**51124**	3/8	1/8	200
10-24*	**51125**	3/8	1/8	200
12-24	**51126**	7/16	5/32	200
1/4-20	**51127**	7/16	3/16	100
5/16-18	**51130**	9/16	7/32	100
3/8-16	**51131**	5/8	1/4	100

*** 3/16 diameter** **† Fine thread**

KEPS NUTS

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LUSTERPLATE™
against rust & corrosion

All sizes except No. 12
Part No. 51103
280 pieces • 10 items
12030 plastic tray

51111	**51113**	**51115**	**51117**	**51119**
51112	**51114**	**51116**	**51118**	**51120**

Numbers in assortment

- **Self contained, free spinning washer.**
- **A must for electrical connections.**

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
6-32	**51111**	**---**	5/16	1/8	100
8-32	**51112**	**---**	11/32	1/8	100
10-24*	**51113**	**---**	3/8	5/32†	100
10-32*	**---**	**51114**	3/8	5/32†	100
12-24	**51121**	**---**	3/8	5/32†	100
1/4	**51115**	**51116**	7/16	17/64†	100
5/16	**51117**	**51118**	1/2	21/64†	100
3/8	**51119**	**51120**	9/16	25/64†	100

*** 3/16 diameter** **† Includes washer height**

JAM NUTS

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Sizes: 1/4" through 9/16"
USS (COARSE)
Part No. 503017
125 pieces • 6 items
12032 plastic tray

503315	**503319**	**503323**
503317	**503321**	**503325**

Numbers in assortment

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**503315**	**503316**	7/16	5/32	100
5/16	**503317**	**503318**	1/2	3/16	100
3/8	**503319**	**503320**	9/16	7/32	100
7/16	**503321**	**503322**	11/16	1/4	50
1/2	**503323**	**503324**	3/4	5/16	50
9/16	**503325**	**503326**	7/8	5/16	12
5/8	**503327**	**503328**	15/16	3/8	12
3/4	**503329**	**503330**	1-1/8	27/64	12
7/8	**503331**	**503332**	1-15/16	31/64	12
1	**503333**	**503334**	1-1/2	35/64	6

SLOTTED HEX NUTS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

Sizes: 1/4" through 3/4"
SAE (FINE)
Part No. 503012
90 pieces • 8 items
12030 plastic tray

503336	**503340**	**503345**	**503349**
503338	**503342**	**503347**	**503351**

Numbers in assortment

SIZE	PART NO. USS THREAD	PART NO. SAE THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4	**503335**	**503336**	7/16	7/32	50
5/16	**503337**	**503338**	1/2	13/64	50
3/8	**503339**	**503340**	9/16	21/64	50
7/16	**503341**	**503342**	11/16	3/8	12
1/2	**503343**	**503345**	3/4	7/16	12
9/16	**503346**	**503347**	7/8	31/64	12
5/8	**503348**	**503349**	15/16	35/64	12
3/4	**503350**	**503351**	1-1/8	41/64	12
7/8	**503344**	**503352**	1-15/16	3/4	10
1	**503353**	**503354**	1-1/2	55/64	10

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NUTS

GRADE 5 SAE (FINE) CASTLE HEX NUTS

SIZE	PART NO. USS THREAD	WRENCH SIZE	NUT HEIGHT	QTY
1/4-28	**503240**	7/16	9/32	25
5/16-24	**503241**	1/2	21/64	25
3/8-24	**503242**	9/16	13/32	25
7/16-20	**503243**	11/16	29/64	25
1/2-20	**503244**	3/4	9/16	10
9/16-18	**503245**	7/8	39/64	10
5/8-18	**503246**	15/16	23/32	10
3/4-16	**503247**	1-1/8	13/16	10
7/8-14	**503248**	1-15/16	29/32	5
1-14	**503249**	1-1/2	1	5

- **Castle nuts have a cylindrical crown.**
- **Used with locking pins.**
- **Cleans cut slots.**
- **Used as spindle lock nuts.**

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against rust & corrosion

Part No. 501649
78 pieces • 10 items
12061 steel tray

503240 503243 503246 503249
503241 503244 503247
503242 503245 503248

Numbers in assortment

FLANGE NUTS

"GRADE G" HEX LOCK FLANGE NUTS

SIZE	PART NUMBER (USS)	PART NUMBER (SAE)	QTY
3/8	**703174**	**703170**	50
1/2	**703175**	**703171**	50
5/8	**703176**	**703172**	50
3/4	**703177**	**703173**	10

- **Specifically for use with Grade 8 Flange bolts & A193 B-7 studs & threaded rod.**
- **See A12 for flange bolts.**
- **Phosphate and oil finish.**

HEX LOCK FLANGE NUTS

SIZE	PART NUMBER (USS)	PART NUMBER (SAE)	QTY
10-24	**720252***	**---**	50
1/4	**50620**	**50624**	50
5/16	**50621**	**50625†**	50
3/8	**50622**	**50626**	50

SIZE	PART NUMBER (USS)	PART NUMBER (SAE)	QTY
7/16	**50616**	**50627**	25
1/2	**50617**	**50628**	25
5/8	**50618**	**---**	25
3/4	**50619**	**---**	10

† Black Oxide Finish * 3/16" Diameter

- **Flange style with serrated washer face.**
- **Case hardened.**
- **Lusterplated.**

ACORN CAP NUTS

SIZE	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
6-32	**503200**	5/16	9/32	100
8-32	**503201**	5/16	9/32	100
10-24*	**503202**	3/8	11/32	100
10-32*†	**503203**	3/8	11/32	100
1/4-20	**503204**	7/16	3/8	100
5/16-18	**503205**	9/16	7/16	50
3/8-16	**503206**	5/8	1/2	50
1/2-13	**503207**	3/4	9/16	25

***3/16" diameter † Fine Thread**

- **USS (coarse) threads.**
- **Dome cover for neat appearance and to prevent snagging.**

Protected by
LUSTERPLATE™
against rust & corrosion

Sizes: No. 8 through 5/16"
Part No. 503009
115 pieces • 5 items
12034 plastic tray

503201 503203 503205
503202 503204

Numbers in assortment

SQUARE NUTS

SIZE	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
1/4-20	**503230**	7/16	7/32	100
5/16-18	**503231**	9/16	17/64	100
3/8-16	**503232**	5/8	21/64	50
7/16-14	**503233**	3/4	3/8	25
1/2-13	**503234**	13/16	7/16	25
5/8-11	**503235**	1	35/64	10
3/4-10	**503236**	1-1/8	21/32	10
7/8-9	**503237**	1-5/16	49/64	5
1-8	**503238**	1-1/2	7/8	5

- **USS (coarse) threads.**

Protected by
LUSTERPLATE™
against rust & corrosion

Sizes: 1/4" through 1/2"
Part No. 503025
68 pieces • 5 items • 12028 plastic tray

503230 503231 503232 503233 503234

Numbers in assortment

FORGED WING NUTS

SIZE	PART NUMBER (USS)	QTY
6-32	**51140**	50
8-32	**51141**	50
10-24*	**51142**	50
10-32*†	**51136**	50
1/4-20	**51143**	50
5/16-18	**51144**	25

SIZE	PART NUMBER (USS)	QTY
3/8-16	**51145**	25
7/16-14	**51146**	10
1/2-13	**51137**	10
5/8-11	**51138**	5
3/4-10	**51139**	5
--	**---**	-

*** 3/16" Diameter † Fine Thread**

- **USS (coarse) threads.**
- **Nickel plated forged steel, twice as strong as die cast nuts.**

Sizes: No. 8 through 3/8" plus 2 metric sizes, 5 and 6mm
Part No. 51104
61 pieces • 7 items
12035 plastic tray

51141 51143 51145 553299
51142 51144 532100

Numbers in assortment

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NUTS

NYLON INSERT LOCKING WING NUTS

- Die cast alloy steel.
- Reusable, nylon collar actually recovers.
- Positive locking action resists vibration.
- Bright finish - rust resistant.

SIZE	PART NUMBER	QTY
8-32	**503210**	10
10-24*	**503211**	10
10-32*†	**503212**	10
1/4-20	**503213**	10
1/4-28†	**503214**	10
5/16-18	**503215**	10

*** 3/16" Diameter † Fine Thread**

STAMPED LOCKING WING NUTS

Protected by **LUSTERPLATE™** against rust & corrosion

- Fits screw size listed below.

SIZE	PART NUMBER	QTY
8-32	**503374**	100
10-24*	**503375**	100
12-24	**503377**	100
1/4-20	**503378**	100
5/16-18	**503379**	100

***3/16" diameter**

CLAW PRONG TEE NUTS

Inserts for wood.

- Eliminates countersinks, adds strength with steel threads in wood applications.
- Prongs grip tightly, won't spin or backout.
- USS (coarse) threads.

Part No. 603100
48 pieces • 6 items
12028 plastic tray

603101 603103 603105
603102 603104 603106
Numbers in assortment

SIZE	PART NUMBER	A	B	C	D	S +.015 —.000	QTY
8-32	**603101**	3/4	1/4	.213/.208	3/16	.035	12
10-24	**603102**	3/4	9/32	.232/.227	13/64	.035	12
10-32	**603107***	3/4	9/32	.232/.227	13/64	.035	12
1/4-20	**603103**	3/4	5/16	.294/.289	15/64	.042	12
1/4-20	**603104**	3/4	3/8	.294/.289	15/64	.042	12
5/16-18	**603105**	7/8	3/8	.369/.364	19/64	.052	12
3/8-16	**603106**	1	7/16	.448/.443	11/32	.062	12

***Not in assortment no. 603100**

BRASS WOOD INSERTS

Threaded inserts for wood & similar materials.

Part No. 406150
62 pieces • 8 items
12030 plastic tray

406151 406153 406155 406157
406152 406154 406156 406158
Numbers in assortment

- Installed with a drill and a screwdriver. Removable, reusable. Pullout strength 2-3 times greater than wood screws.
- Use wherever wood is held by screws.
- Allows use of machine screws and bolts.

INTERNAL THREAD	PART NUMBER	DRILL SIZE	QTY
4-40	**406157**	11/64	10
6-32	**406151**	11/64	10
8-32	**406152**	13/64	10
10-24	**406153**	15/64	10
10-32	**406158**	15/64	10
1/4-20	**406154**	5/16	10
5/16-18	**406155**	3/8	5
3/8-16	**406156**	15/32	5

WELL NUTS® BLIND FASTENERS

For attaching lights, mirrors, rack to trucks, trailers and cars.

- One blind fastener that does it all.
- Neoprene with captive brass nut.

Part No. 503022
58 pieces • 12 items
12030 plastic tray

503165 503167 503169 505319 505337 505355
503166 503168 503171 505327 505346 505362
Numbers in assortment

Part No. 503010
56 pieces • 6 items
12028 plastic tray

503165 503167 503169
503166 503168 503171
Numbers in assortment

SIZE	PART NUMBER	SHANK DIAMETER	OVERALL LENGTH	HOLE SIZE	QTY
8-32	**503166**	.312	.475	5/16	50
10-24*	**503167**	.375	.767	3/8	50
10-32*†	**503168**	.377	.807	3/8	50
1/4-20	**503169**	.500	.630	1/2	50
1/4-20	**503170**	.500	1.051	1/2	50
5/16-18	**503171**	.620	.725	5/8	12
10-32*†	**503190**	.375	1.051	3/8	10
10-32*†	**503191**	.377	.665	3/8	10

*** 3/16" Diameter † Fine Thread**

VANDLGARD-NUTS®

Makes fasteners theft proof.

- Torque sensing, hex nut separates with proper clamp force.
- Remaining low profile, conical nut makes any bolt, cap screw or machine screw virtually tamper-proof.
- No special tools required. Removal instructions included.
- Vibration resistant, corrosion resistant anodized aluminum.
- USS (coarse) thread.

SIZE	PART NUMBER	QTY
10-24	**404125**	10
1/4-20	**404126**	10
5/16-18	**404127**	10
3/8-16	**404128**	10

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NUTS

FLAT SPEED NUTS

Push-On for Studs

STUD SIZE	PART NUMBER	QTY
1/16	**51191**	100
3/32	**51192**	100
1/8	**51193**	100
5/32	**51194**	100

STUD SIZE	PART NUMBER	QTY
3/16	**51195**	100
7/32	**51196**	100
1/4	**51197**	100
--	**---**	-

- Carbon steel.
- Rust resistant.

- Reusable.
- Use with studs, sheet metal and machine screws.

for Sheet Metal Screws

SCREW SIZE	PART NUMBER	QTY
No. 4	**51199**	100
No. 6	**511100**	100
No. 8	**511101**	100

SCREW SIZE	PART NUMBER	QTY
No. 10	**511102**	100
No. 14	**511103**	100
--	**---**	-

for Machine Screws

SCREW SIZE	PART NUMBER	QTY
6-32	**511104**	100
8-32	**511105**	100

SCREW SIZE	PART NUMBER	QTY
3/16	**511106**	100
1/4-20	**511107**	100

"U" and "J" SPEED NUTS

- Heat treated spring steel.
- Rust resistant.
- Self-locking.
- Reusable.

"J" PART NUMBER	"D" PANEL RANGE	SCREW SIZE	"U" PART NUMBER	"D" PANEL RANGE	QTY
511112	9/32	No.6	**511117**	3/8	100
511113	5/16	No.8	**511118**	9/32	100
511114	9/32	No.10	**511119**	15/32	100
511115	1/2	No.14	**511120**	17/32	100
511116	15/32	No.14	**---**	--	100

"J" Type

"U" Type

Part No. 51102
154 pieces • 8 items • 12030 plastic tray

511112	**511114**	**511116**	**511119**
511113	**511115**	**511118**	**511120**

Numbers in assortment

EXTRUDED "U" NUTS

THREAD SIZE	PART NUMBER	"D" PANEL RANGE	QTY
10-24	**717104**	1/2	100
1/4-20	**717105**	1/2	25
1/4-20	**717106**	27/32	25
5/16-18	**717107**	5/8	50
5/16-18	**717108**	7/8	50
3/8-16	**717109**	3/4	10

- Clean, burr-free, rolled internal machine screw threads.
- Black finish resists rust.
- Universal applications.

Part No. 717001
43 pieces • 6 items
12028 plastic tray

717104	**717106**	**717108**
717105	**717107**	**717109**

Numbers in assortment

SQUARE CAGE NUTS

THREAD SIZE	PART NUMBER	"B" HOLE SIZE	"C" PANEL RANGE	QTY
10-24	**516268**	1/4 x 3/8	.025-.063	24
10-32	**516260**	11/32 x 3/8	.025-.063	24
1/4-20	**516269**	11/32 x 5/16	.025-.063	24
5/16-18	**516270**	15/32 x 7/16	.028-.056	24
5/16-18	**516261**	15/32 x 33/64	.177-.197	24
3/8-16	**516271**	29/64 x 7/16	.028-.056	24
3/8-16	**516262**	15/32 x 33/64	.093-.126	24
3/8-24	**516263**	15/32 x 33/64	.057-.092	24

- Heat treated spring steel.
- Rust resistant.
- Self-locking.

"J" CAGE NUTS

THREAD SIZE	PART NUMBER	"D" PANEL RANGE	QTY
1/4-20	**717150**	1/2	25
5/16-18	**717151**	9/16	25
3/8-16	**717152**	19/32	25

- Heat treated spring steel.
- Rust resistant.
- Self-locking.

TUBULAR SPEED NUTS (Barrel Nuts)

STUD SIZE	PART NUMBER	HOLE SIZE	QTY
3/32	**516112**	7/64	100
1/8	**516114**	3/32	100
1/8	**516115**	3/16	100
3/16	**516116**	15/64	100
1/4	**720730**	5/16	12

- Heat treated spring steel.
- Use for emblems, name plates, and much more.

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NUTS

PAL and PUSH NUTS

Part No. 501030
715 pieces • 19 items • 12017 steel tray

PUSH NUTS	PAL LOCK NUTS	REGULAR PAL NUTS	THREAD CUTTING PAL NUTS
1/8 x 3/8	7/16	15/32 x 11/32	1/8 x 5/16
5/32 x 7/16	1/2	1/2 x 3/8	7/16 x 5/16
3/16 x 7/16		3/4 x 3/8	17/32 x 5/16
1/4 x 17/32		19/32 x 7/16	1/2 x 3/8
5/16 x 5/8			3/16 x 1/2
3/8 x 3/4			11/16 x 7/16
1/2 x 1			

Numbers in assortment

- **Contains all styles of pal and push nuts.**

PAL NUTS

- **Vibration proof; reusable.**
- **Same wrench size as standard nuts.**
- **Regular style for threaded fasteners.**
- **Thread cutting style for studs.**
- **Formed washer face holds in place.**

Part No. 51607
350 pieces • 10 items
12030 plastic tray

516281 516283 516285 516287 516289
516282 516284 516286 516288 516290

Numbers in assortment

Thread Cutting

STUD SIZE	PART NUMBER	WASHER O.D.	HEX O.D.	QTY
1/8	**516285**	--	5/16	100
1/8	**516286**	7/16	5/16	100
1/8	**516287**	17/32	5/16	100
3/16	**516288**	1/2	3/8	100
3/16	**516289**	--	1/2	100
1/4	**516290**	11/16	7/16	100
5/16	**720267**	3/4	--	50

Regular

THREAD SIZE	PART NUMBER	WASHER O.D.	HEX O.D.	QTY
8-32	**516281**	15/32	11/32	100
3/16	**516282**	1/2	3/8	100
3/16	**516283**	3/4	3/8	100
1/4-20	**516284**	19/32	7/16	100
5/16-18	**516291**	13/16	1/2	100

PAL LOCK NUTS

- **Vibration proof.**
- **Used on top of standard nuts as a double lock.**

THREAD SIZE	PART NUMBER	QTY
7/16	**503371**	50
1/2	**503372**	50

PUSH NUT RETAINERS

Part No. 503001
250 pieces • 7 items
12035 plastic tray

503101 503103 503105 503107
503102 503104 503106

Numbers in assortment

- **Spring steel - positive locking.**
- **Push over stud for fast and easy permanent installation.**
- **Will not back off.**
- **Not reusable.**
- **For non-threaded fasteners.**

STUD SIZE	PART NUMBER	O.D.	QTY
1/8	**503101**	3/8	100
5/32	**503102**	7/16	100
3/16	**503103**	7/16	100
1/4	**503104**	17/32	100
5/16	**503105**	5/8	100
3/8	**503106**	3/4	100
1/2	**503107**	1	50

PUSH NUT BOLT RETAINERS

Part No. 503006
200 pieces • 5 items
12034 plastic tray

503160 503162 503164
503161 503163

Numbers in assortment

- **Holds fasteners in place where hands can't reach.**
- **Insert cap screw through a panel, run bolt retainer onto threads. Cap screw, machine screw stays in place while hanging outside panel, starting nuts, etc.**
- **For threaded fasteners.**

FITS THREAD SIZE	PART NUMBER	O.D.	QTY
No. 6	**720271**	11/32	100
No. 8	**720272**	3/8	100
No. 10	**720273**	7/16	100
1/4	**503160**	1/2	100
5/16	**503161**	5/8	100
3/8	**503162**	25/32	100
7/16	**503163**	27/32	100
1/2	**503164**	15/16	100

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PLOW, ELEVATOR and STEP BOLTS

GRADE 5 CLIPPED HEAD

Protected by
LUSTERPLATE™
against rust & corrosion

- **Heat-treated.**
- **1038 high carbon steel.**
- **USS Coarse thread.**

	DIA. 3/8-16		DIA. 7/16-14		DIA. 1/2-13	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1-1/4	503815	25	503817	25	503819	25
1-1/2	503816	25	503818	25	503820	25

GRADE 5 #3 HEAD STYLE

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Heat-treated.**
- **1038 high carbon steel.**
- **USS Coarse thread.**
- **Square shoulder.**
- **Flat counter-sunk head 3/8" through 1/2". (5/8" - dome head.)**

	DIA. 3/8-16		DIA. 7/16-14		DIA. 1/2-13		DIA. 5/8-11	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	503801	25	---	-	---	-	---	-
1-1/4	503802	25	503861	25	503866	25	---	-
1-1/2	503803	25	503806	25	503810	25	---	-
1-3/4	503860	25	503862	25	503867	25	503872	10
2	503804	25	503807	25	503811	25	503873	10
2-1/4	---	-	503863	25	503868	25	503874	10
2-1/2	503805	25	503808	25	503812	25	503875	10
2-3/4	---	-	503864	25	503869	25	503876	10
3	---	-	503809	25	503870	25	503877	10
3-1/2	---	-	503865	25	503871	25	503878	10
4	---	-	---	-	---	-	503879	10

Available with Hex Nuts — Add "N" to end of stock number.

GRADE 8 #3 HEAD STYLE

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Alloy steel.**
- **USS Coarse thread.**
- **Square shoulder.**
- **Dome counter-sunk head.**

	DIA. 5/8-11		DIA. 3/4-10		DIA. 7/8-9		DIA. 1-8	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
2	503825	6	503828	5	---	-	---	-
2-1/4	503836	6	503840	5	503846	5	---	-
2-1/2	503826	6	503829	5	503831	5	---	-
2-3/4	503837	6	503841	5	503847	5	---	-
3	503827	6	503830	5	503832	5	503833	5
3-1/2	503835	6	503842	5	503848	5	503852	5
4	503838	6	503843	5	503849	5	503834	5
4-1/2	503839	6	503844	5	503850	5	503853	5
5	---	-	503845	5	503851	5	503854	5
5-1/2	---	-	---	-	---	-	503855	5
6	---	-	---	-	---	-	503856	5
6-1/2	---	-	---	-	---	-	503857	5

ELEVATOR BOLTS

Protected by
LUSTERPLATE™
against rust & corrosion

- **USS Coarse thread.**
- **Flat counter-sunk head.**
- **Grade 2 low carbon steel.**
- **Conforms to ANSI B18.5.**
- **Used on conveyors, machine repair, bowling alley sweeps, farm maintenance, quarry and mining equipment, trailer flooring, pontoon boats, snow mobiles, mobile homes, skateboards, recreational vehicles, leveling legs. Holding concrete forms together.**

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/4	702213	25	---	-	---	-
1	702201	25	702206	25	702219	25
1-1/4	702202	25	702207	25	702220	25
1-1/2	702203	25	702208	25	702210	25
1-3/4	702204	25	702216	25	702221	25
2	702205	25	702209	25	702211	25
2-1/2	702214	25	702217	25	702212	25
3	702215	25	702218	25	702222	25

STEP BOLTS

- **USS Coarse thread.**
- **Square neck.**
- **Grade 2 low carbon steel.**
- **Conforms to ANSI B18.5.**
- **Large oval head.**
- **Used for steps, bleachers.**

Sizes: 1/4-20 x 1" through 3/8-16 x 2-1/2"
Includes hex nuts
Part No. 501509
146 pieces • 14 items
12061 steel tray

51205	702276	702279	702284	702288
51207	702277	702281	702285	702289
51209	702278	702283	702287	

Numbers in assortment

Protected by
LUSTERPLATE™
against rust & corrosion

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/4	702275	25	702280	25	---	-
1	702276	25	702281	25	702285	10
1-1/4	702277	25	702282	25	702286	10
1-1/2	702278	25	702283	25	702287	10
1-3/4	702273	25	---	-	---	-
2	702279	25	702284	25	702288	10
2-1/2	702274	25	---	-	702289	10
3	702272	25	---	-	702290	10

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SHAKER BOLTS

GRADE 5 SHAKER SCREEN BOLTS

	DIA. 1/2-13		DIA. 5/8-11		DIA. 3/4-10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1-1/2	702775	10	---	-	---	-
2	702776	10	702783	5	---	-
2-1/2	702777	10	702784	5	---	-
2-3/4	---	-	---	-	702791	5
3	702778	10	702785	5	702792	5
3-1/2	702779	10	702786	5	702793	5
4	702780	10	702787	5	702794	5
4-1/2	702781	10	702788	5	702795	5
5	702782	10	702789	5	702796	5
6	---	-	702790	5	702797	5
9	---	-	---	-	702799	5

- USS Coarse thread.
- Fully threaded to square.
- 120,000 psi minimum tensile length.
- Precision rolled threads.

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

A12

GRADE 8 SHAKER SCREEN BOLTS (CARRIAGE BOLTS)

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 1/2-13		DIA. 5/8-11		DIA. 3/4-10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/4	712300	50	712307	50	712314	25	---	-	---	-	---	-
1	712301	50	712308	50	712315	25	---	-	---	-	---	-
1-1/4	712302	50	712309	50	---	-	---	-	---	-	---	-
1-1/2	712303	50	712310	25	712316	25	712323	10	---	-	---	-
1-3/4	712304	50	712311	25	712317	25	712324	10	---	-	---	-
2	712305	25	712312	25	712318	25	712325	10	712335	5	712347	5
2-1/2	712306	25	712313	25	712319	25	712326	10	712336	5	712348	5
2-3/4	---	-	---	-	---	-	---	-	712337	5	712349	5
3	---	-	---	-	712320	10	712327	10	712338	5	712350	5
3-1/2	---	-	---	-	---	-	712328	10	712339	5	712351	5
4	---	-	---	-	712321	10	712329	10	712340	5	712352	5
4-1/2	---	-	---	-	---	-	712330	10	712341	5	712353	5
5	---	-	---	-	712322	10	712331	10	712342	5	712354	5
5-1/2	---	-	---	-	---	-	712332	5	---	-	712355	5
6	---	-	---	-	---	-	712333	5	712343	5	712356	5
7	---	-	---	-	---	-	---	-	---	-	712357	5
8	---	-	---	-	---	-	712334	5	712344	5	712358	5
9	---	-	---	-	---	-	---	-	712345	5	712359	5
10	---	-	---	-	---	-	---	-	712346	5	712360	5

- USS Coarse threads.
- Full thread.
- 150,000 PSI.
- High stress applications including:
  - Pole line construction.
  - Billboards and signs.
  - Shelving & bracing.
  - Wooden furniture.
  - Trailer decking.
- Hex nuts not included.

Sizes: 1/4-20 x 3/4" through 1/2-13 x 3"
Part No. 501733
177 pieces • 16 items
12050 steel tray

712300	712307	712315	712323
712301	712308	712316	712325
712302	712310	712318	712326
712303	712312	712319	712327

Numbers in assortment

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CARRIAGE BOLTS

GRADE 5 CARRIAGE BOLTS

Protected by **LUSTERPLATE™** against rust & corrosion

- **120,000 PSI minimum tensile strength.**
- **USS Coarse threads.**
- **Designed for high stress applications.**

LENGTH	DIA. 1/4-20 PART NUMBER	QTY	DIA. 5/16-18 PART NUMBER	QTY	DIA. 3/8-16 PART NUMBER	QTY	DIA. 7/16-14 PART NUMBER	QTY	DIA. 1/2-13 PART NUMBER	QTY	DIA. 5/8-11 PART NUMBER	QTY	DIA. 3/4-10 PART NUMBER	QTY
3/4	702700	50	702706	50	---	-	---	-	---	-	---	-	---	-
1	702701	50	702707	50	702712	25	---	-	702730	25	---	-	---	-
1-1/4	702702	50	702708	50	702713	25	702722	25	---	-	---	-	---	-
1-1/2	702703	50	702709	25	702714	25	702723	25	702731	25	---	-	---	-
1-3/4	---	-	---	-	702715	25	702724	25	---	-	---	-	---	-
2	702704	25	702710	25	702716	25	702725	25	702732	10	702738	10	---	-
2-1/4	---	-	---	-	702717	25	---	-	---	-	---	-	---	-
2-1/2	702705	25	702711	25	702718	25	702726	10	702733	10	702739	10	---	-
3	---	-	---	-	702719	25	702727	10	702734	10	702740	10	702745	10
3-1/2	---	-	---	-	702720	10	702728	10	---	-	702741	5	702746	5
4	---	-	---	-	702721	10	702729	10	702735	10	702742	5	702747	5
4-1/2	---	-	---	-	---	-	---	-	702736	10	---	-	702748	5
5	---	-	---	-	---	-	---	-	702737	10	702743	5	702749	5
6	---	-	---	-	---	-	---	-	---	-	702744	5	702750	5

Sizes: 1/4-20 x 3/4" through 5/8-11 x 4"
USS (COARSE) Includes hex nuts
Part No. 501552
560 pieces • 37 items
12021 steel bin cabinet

503260	503272	702709	702714	702721	702728	702734	702741
503262	702700	702710	702716	702723	702729	702735	702742
503264	702701	702711	702718	702725	702731	702738	
503266	702703	702712	702719	702726	702732	702739	
503268	702707	702713	702720	702727	702733	702740	

Numbers in assortment

Sizes: 1/4-20 x 3/4" through 1/2-13 x 3"
Part No. 501347
213 pieces • 16 items
12050 steel tray

702700	702709	702716	702730
702701	702710	702722	702731
702703	702712	702723	702732
702707	702714	702725	702734

Numbers in assortment

GRADE 2 CARRIAGE BOLTS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Pole line construction.**
- **Billboards and signs.**
- **USS Coarse threads.**
- **Shelving and bracing.**
- **Wooden furniture.**
- **Hex nuts not included.**
- **Trailer decking.**
- **Much more.**

LENGTH	DIA. 3/16-24 (#10) PART NUMBER	QTY	DIA. 1/4-20 PART NUMBER	QTY	DIA. 5/16-18 PART NUMBER	QTY	DIA. 3/8-16 PART NUMBER	QTY	DIA. 7/16-14 PART NUMBER	QTY	DIA. 1/2-13 PART NUMBER	QTY	DIA. 5/8-11 PART NUMBER	QTY
1/2	702681	50	---	-	---	-	---	-	---	-	---	-	---	-
5/8	702682	50	---	-	---	-	---	-	---	-	---	-	---	-
3/4	702683	50	702601	50	702609	50	702659	10	---	-	---	-	---	-
1	702684	50	702602	50	702610	50	702658	10	---	-	---	-	---	-
1-1/4	702685	50	---	-	---	-	---	-	---	-	---	-	---	-
1-1/2	702686	50	702603	50	702611	50	702619	10	702629	10	702639	10	---	-
1-3/4	702687	50	---	-	---	-	---	-	---	-	---	-	---	-
2	702688	50	702604	50	702612	50	702620	10	702630	10	702640	10	702649	10
2-1/4	702689	50	---	-	---	-	---	-	---	-	---	-	---	-
2-1/2	702690	50	702605	50	702613	50	702621	10	702631	10	702641	10	702650	10
3	702691	50	702606	25	702614	25	702622	10	702632	10	702642	10	702651	10
3-1/2	---	-	702607	25	702615	25	702623	10	702633	10	702643	10	---	-
4	---	-	702608	25	702616	25	702624	10	702634	10	702644	10	702653	10
4-1/2	---	-	702660	25	702617	25	702625	10	702635	10	702645	10	---	-
5	---	-	702661	25	702618	25	702626	10	702636	10	702646	10	702655	10
5-1/2	---	-	702662	25	702667	25	702627	10	702637	10	702647	10	---	-
6	---	-	702663	25	702668	25	702628	10	702638	10	702648	10	702657	10
6-1/2	---	-	702664	25	702669	10	702672	10	---	-	702675	10	702678	5
7	---	-	702665	25	702670	10	702673	10	---	-	702676	10	702679	5
8	---	-	702666	25	702671	10	702674	10	---	-	702677	10	702680	5

Sizes: 1/4-20 x 3/4" through 5/8-11 x 4"
Includes hex nuts
Part No. 501553
530 pieces • 36 items
12021 steel bin cabinet

51205	51217	702611	702621	702630	702639	702644	702658
51207	702601	702612	702622	702631	702640	702649	
51209	702602	702613	702623	702632	702641	702650	
51211	702603	702619	702624	702633	702642	702651	
51213	702610	702620	702629	702634	702643	702653	

Numbers in assortment

Sizes: 1/4-20 x 1" through 3/8-16 x 3-1/2"
Includes hex nuts
Part No. 501328
115 pieces • 10 items
12061 steel tray

702602	702612	702620	702658
702604	702614	702622	
702610	702615	702623	

Numbers in assortment

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CARRIAGE and TAP BOLTS

GRADE 5 RIBBED NECK CARRIAGE BOLTS

Used in trailer repair, construction, mining, agriculture and industrial maintenance.

Protected by **LUSTERPLATE™** against rust & corrosion

- **Ribs resist spinning of bolt.**
- **Circular head provides a smooth finished appearance.**
- **USS coarse threads.**
- **120,000 PSI minimum tensile strength.**
- **Hex nuts not included.**

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	702755	25	702759	25	702764	25
1-1/4	702756	25	702760	25	702765	25
1-1/2	702757	25	702761	25	702766	25
2	702758	25	702762	25	702767	25
2-1/2	---	-	702763	25	702768	25

Part No. 501689
215 pieces • 14 items
12050 steel tray

702755	702758	702761	702764	702767
702756	702759	702762	702765	702768
702757	702760	702763	702766	

Numbers in assortment

GALVANIZED GRADE 2 CARRIAGE BOLTS

- **Hot dipped galvanized for superior resistance to corrosion.**
- **Highly recommended for exterior use.**
- **USS Coarse threads.**
- **Used by marinas, construction companies, highway departments, recreation departments and parks.**

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 1/2-13		DIA. 5/8-11	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	706500	50	706510	50	706520	50	---	-	---	-
1-1/2	706501	50	706511	50	706521	50	706534	25	---	-
2	706502	50	706512	50	706522	50	706535	25	706547	10
2-1/2	706503	50	706513	50	706523	25	706536	25	706548	10
3	706504	50	706514	50	706524	25	706537	10	706549	10
3-1/2	706505	25	706515	25	706525	25	706538	10	706550	5
4	706506	25	706516	25	706526	25	706539	10	706551	5
4-1/2	706507	25	706517	25	706527	25	706540	10	---	-
5	706508	25	706518	25	706528	10	706541	10	706552	5
6	706509	25	706519	25	706529	10	706542	10	706553	5
7	---	-	---	-	706530	10	706543	5	---	-
8	---	-	---	-	706531	10	706544	5	---	-
10	---	-	---	-	706532	10	706545	5	---	-
12	---	-	---	-	706533	10	706546	5	---	-

USE ONLY GALVANIZED NUTS - SEE PAGE A11-6.

Sizes: 1/4" x 1" through 1/2" x 3"
Includes bolts, nuts, flat & lock washers.
Part No. 501484
615 pieces • 24 items
12017 steel tray

603130	603136	603142	706500	706511	706523
603131	603137	603143	706501	706512	706535
603132	603138	603144	706502	706521	706536
603133	603139	603145	706510	706522	706537

Numbers in assortment

GRADE 8 HEX HEAD TAP BOLTS

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 1/2-13		DIA. 5/8-11		DIA. 3/4-10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	507601	25	507612	25	---	-	---	-	---	-	---	-
1-1/4	507602	25	507613	25	507623	10	---	-	---	-	---	-
1-1/2	507603	25	507614	25	507624	10	507633	10	---	-	---	-
1-3/4	507604	25	507615	25	507625	10	507634	10	507642	5	---	-
2	507605	25	507616	10	507626	10	507635	10	507643	5	507650	5
2-1/4	507606	25	507617	10	507627	10	507636	10	507644	5	507651	5
2-1/2	507607	10	507618	10	507628	10	507637	10	507645	5	507652	5
2-3/4	507608	10	507619	10	507629	10	507638	5	507646	5	507653	5
3	507609	10	507620	10	507630	10	507639	5	507647	5	507654	5
3-1/2	507610	10	507621	10	507631	5	507640	5	507648	5	507655	5
4	507611	10	507622	10	507632	5	507641	5	507649	5	507656	5

- **USS Coarse threads.**
- **Fully threaded.**
- **Finish is yellow zinc or black.**
- **Medium carbon alloy steel.**
- **150,000 PSI.**

GRADE 5 HEX HEAD TAP BOLTS

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 1/2-13		DIA. 5/8-11		DIA. 3/4-10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
7/8	504650	25	---	-	---	-	---	-	---	-	---	-
1	504651	25	504657	25	---	-	---	-	---	-	---	-
1-1/4	504652	25	504658	25	504666	10	---	-	---	-	---	-
1-1/2	504653	25	504659	25	504667	10	504674	10	---	-	---	-
1-3/4	504654	25	504660	25	504668	10	504675	10	504682	5	---	-
2	504655	25	504661	25	504669	10	504676	10	504683	5	504689	5
2-1/4	504656	25	504662	25	504670	10	504677	10	504684	5	504690	5
2-1/2	---	-	504663	25	504671	10	504678	10	504685	5	504691	5
2-3/4	---	-	504664	10	---	-	---	-	---	-	---	-
3	---	-	504665	10	504672	10	504679	5	504686	5	504692	5
3-1/2	---	-	---	-	504673	10	504680	5	504687	5	504693	5
4	---	-	---	-	---	-	504681	5	504688	5	504694	5

Protected by **LUSTERPLATE™** against rust & corrosion

- **USS Coarse threads.**
- **Fully threaded.**
- **Medium carbon steel.**
- **120,000 PSI.**

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TAP and FLANGE BOLTS

GRADE 2 HEX HEAD TAP BOLTS

Protected by
LUSTERPLATE™
against rust & corrosion

- USS Coarse threads.
- Fully threaded.
- Medium carbon steel.

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 1/2-13		DIA. 5/8-11		DIA. 3/4-10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	504401	25	504412	25	504423	25	---	-	---	-	---	-
1-1/4	504402	25	504413	25	504424	25	---	-	---	-	---	-
1-1/2	504403	25	504414	25	504425	25	504434	25	---	-	---	-
1-3/4	504404	25	504415	25	504426	25	504435	25	504443	10	---	-
2	504405	25	504416	25	504427	25	504436	25	504444	10	504451	10
2-1/4	504406	25	504417	25	504428	25	504437	25	504445	10	504452	10
2-1/2	504407	25	504418	25	504429	25	504438	25	504446	10	504453	10
2-3/4	504408	25	504419	25	504430	25	504439	25	504447	10	504454	10
3	504409	25	504420	25	504431	25	504440	10	504448	10	504455	10
3-1/2	504410	25	504421	25	504432	25	504441	10	504449	10	504456	10
4	504411	25	504422	25	504433	25	504442	10	504450	10	504457	10

Sizes: 1/4-20 x 1" through 5/8-11 x 3"
Part No. 501504
175 pieces • 15 items
12050 steel tray

504651	504659	504671	504685
504653	504661	504674	504686
504655	504667	504676	
504657	504669	504679	

Numbers in assortment

12 POINT FLANGE BOLTS (COUNTR-BOR SCREWS)

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- USS Coarse threads.
- Heat treated alloy steel. 170,000 PSI minimum tensile strength.
- 3 times the head surface area for faster, tighter wrenching.
- Interchangeable with socket head cap screws. Uses standard thin-wall wrench.

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 7/16-14		DIA. 1/2-13		DIA. 5/8-11		DIA. 3/4-10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	702900	25	702908	25	---	-	---	-	---	-	---	-	---	-
5/8	---	-	702909	25	---	-	---	-	---	-	---	-	---	-
3/4	702901	25	702910	25	702918	25	---	-	---	-	---	-	---	-
7/8	---	-	702911	25	---	-	---	-	---	-	---	-	---	-
1	702902	25	702912	25	702919	25	702930	10	702938	10	702950	5	---	-
1-1/4	702903	25	702913	25	702920	25	---	-	702939	10	---	-	---	-
1-1/2	702904	25	702914	25	702921	10	702931	10	702940	10	702951	5	702961	5
1-3/4	---	-	---	-	702922	10	702932	10	702941	10	702952	5	---	-
2	702905	25	702915	10	702923	10	702933	10	702942	5	702953	5	702962	5
2-1/4	702906	25	702916	10	---	-	---	-	---	-	---	-	---	-
2-1/2	702907	25	702917	10	702924	10	702934	10	702943	5	702954	5	702963	5
3	---	-	---	-	702925	10	702935	5	702944	5	702955	5	702964	5
3-1/2	---	-	---	-	702926	10	702936	5	702945	5	702956	5	702965	5
4	---	-	---	-	702927	5	702937	5	702946	5	702957	5	702966	5
4-1/2	---	-	---	-	702928	5	---	-	702947	5	702958	5	702967	5
5	---	-	---	-	702929	5	---	-	702948	5	702959	5	702968	5
6	---	-	---	-	---	-	---	-	702949	5	702960	5	702969	5

Sizes: 1/4-20 x 1/2" through 1/2-13 x 2"
Part No. 501514
247 pieces • 24 items
12017 steel tray

702900	702905	702914	702922	702938
702901	702908	702915	702923	702939
702902	702910	702919	702930	702940
702903	702912	702920	702931	702942
702904	702913	702921	702933	

Numbers in assortment

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FLANGE BOLTS

HEX SERRATED FLANGE LOCKING BOLT

- 120,000 PSI tensile strength.
- Serrations under the head grip on the bearing surface when tightened.
- Heat treated.
- USS Coarse threads.
- Case hardened to: surface: R15N-76/86 core: RC25/34.
- Exceeds Grade 5 specifications.

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 7/16-14		DIA. 1/2-13	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	712201	100	---	-	---	-	---	-	---	-
1/2	712202	100	712215	50	712228	25	---	-	---	-
5/8	712203	100	712216	50	712229	25	---	-	---	-
3/4	712204	100	712217	50	712230	25	712241	25	712250	10
7/8	712205	100	712218	50	712231	25	712242	25	712251	10
1	712206	100	712219	50	712232	25	712243	25	712252	10
1-1/4	712207	50	712220	50	712233	25	712244	25	712253	10
1-1/2	712208	50	712221	50	712234	25	712245	25	712254	10
1-3/4	712209	50	712222	50	712235	25	712246	25	712255	10
2	712210	50	712223	25	712236	25	712247	25	712256	10
2-1/4	712211	25	712224	25	712237	25	712248	25	712257	10
2-1/2	712212	25	712225	25	712238	25	712249	25	712258	10
2-3/4	712213	25	712226	25	712239	25	---	-	712259	10
3	712214	25	712227	25	712240	25	---	-	712260	10

SERRATED FLANGE NUTS

PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
50620	50	50621	50	50622	50	50616	25	50617	25

GRADE 8 HEX FLANGE FASTENING SYSTEM

- A high strength locking system designed to prevent failure due to vibration.
- Used in trucks, as well as industrial equipment, wherever excessive vibration is a problem.
- USS Coarse and SAE Fine thread.
- Phosphate & Oil finish.

Protected by **BLACK OXIDE FINISH™** against rust & corrosion

	DIA. 3/8-16 USS		DIA. 1/2-13 USS		DIA. 1/2-20 SAE		DIA. 5/8-11 USS		DIA. 5/18-18 SAE		DIA. 3/4-10 USS		DIA. 3/4-16 USS	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	702240	25	---	-	---	-	---	-	---	-	---	-	---	-
1-1/4	702239	25	702231	25	712101	25	---	-	---	-	---	-	---	-
1-1/2	702241	25	702250	25	712102	25	702254	25	712111	25	---	-	---	-
1-3/4	702242	25	702251	25	712103	25	702255	25	712112	25	702232	10	712121	10
2	702243	25	702252	25	712104	25	702256	25	712113	25	702233	10	712122	10
2-1/4	---	-	---	-	---	-	702264	25	712114	25	702234	10	712123	10
2-1/2	702244	25	702253	25	712105	25	702257	25	712115	25	702235	10	712124	10
2-3/4	---	-	---	-	---	-	702265	25	---	-	---	-	---	-
3	702245	25	702259	25	712106	25	702258	25	712116	25	702236	10	712125	10
3-1/2	702246	25	702260	25	712107	25	702266	10	712117	10	702237	10	712126	10
4	702247	10	702261	10	712108	10	702267	10	712118	10	702238	10	712127	10
4-1/2	702248	10	702262	10	712109	10	702268	10	712119	10	---	-	---	-
5	702249	10	702263	10	712110	10	702269	10	712120	10	---	-	---	-

GRADE "G" FLANGE LOCK NUTS

	DIA. 3/8-16 USS		DIA. 1/2-13 USS		DIA. 1/2-20 SAE		DIA. 5/8-11 USS		DIA. 5/18-18 SAE		DIA. 3/4-10 USS		DIA. 3/4-16 USS	
	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
	703174	50	703175	50	703171	50	703176	50	703172	50	703177	10	703173	10

Designed specifically for use with Hex Flange Nuts.

Sizes: 1/2" x 1-1/2" through 5/8" x 3"
SAE (FINE)
Part No. 501660
80 pieces • 10 items
12061 steel tray

703171	712102	712106	712111	712115
703172	712104	712107	712113	712116

Numbers in assortment

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SPRING CENTER and STOVE BOLTS

SPRING CENTER BOLTS & NUTS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Slotted Fillister head.**
- **SAE Fine threads.**
- **Grade 2 low carbon steel.**

	DIA. 5/16-24		DIA. 3/8-24		DIA. 7/16-20		DIA. 1/2-20		DIA. 5/8-18	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3-1/2	702521	10	702525	10	---	-	---	-	---	-
5	702522	10	702526	10	---	-	---	-	---	-
6	702523	10	702527	10	---	-	---	-	---	-
10	---	-	---	-	702529	5	702531	5	---	-
12	702524	10	702528	10	702530	5	702532	5	702533	2

A12

ROUND HEAD STOVE BOLTS WITH HEX NUTS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Deep slotted head.**
- **Conforms to ANSI B18.6.3.**
- **Precision rolled Class 2A threads.**
- **USS Coarse threads.**

	DIA. 5/32-32		DIA. 3/16-24		DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	702401	200	702408	200	702417	200	702579	100	---	-
3/4	702402	200	702409	200	702418	200	702580	100	---	-
1	702403	200	702410	200	702419	200	702428	200	702439	200
1-1/4	702404	100	702411	100	702420	100	702581	50	---	-
1-1/2	702405	100	702412	100	702421	100	702429	100	702440	100
1-3/4	702406	100	702413	100	702422	100	---	-	---	-
2	702407	100	702414	100	702423	100	702430	100	702441	100
2-1/4	---	-	702575	50	702578	50	---	-	---	-
2-1/2	---	-	702415	100	702424	100	702431	100	702442	100
3	---	-	702416	100	702425	100	702432	100	702443	50
3-1/2	---	-	702576	50	702426	50	702433	50	702444	50
4	---	-	702577	50	702427	50	702434	50	702445	50
4-1/2	---	-	---	-	---	-	702435	50	702446	50
5	---	-	---	-	---	-	702436	50	702447	50
5-1/2	---	-	---	-	---	-	702437	50	702448	50
6	---	-	---	-	---	-	702438	50	702449	50

Sizes: 5/32" x 1/2" through 1/4" x 2"
Part No. 702002
140 pieces • 10 items
12027 plastic tray

702401	702409	702412	702419	702421
702408	702410	702418	702420	702423

Numbers in assortment

Sizes: 3/16" x 1/2" through 3/8" x 4"
Part No. 501512
167 pieces • 20 items
12071 steel tray

702408	702416	702425	702430	702440
702410	702418	702427	702432	702441
702412	702421	702428	702434	702443
702414	702423	702429	702439	702445

Numbers in assortment

FLAT HEAD STOVE BOLTS WITH HEX NUTS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Deep slotted head.**
- **Conforms to ANSI B18.6.3.**
- **Precision rolled Class 2A threads.**
- **Countersunk head for flush mount applications.**
- **USS Coarse threads.**

	DIA. 3/16-24		DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	702450	200	702461	100	702476	50	---	-
3/4	702451	200	702462	100	702477	50	---	-
1	702452	200	702463	100	702478	50	702583	25
1-1/4	702453	100	702464	100	702582	25	---	-
1-1/2	702454	100	702465	100	702479	50	702584	25
1-3/4	702455	100	702466	100	---	-	---	-
2	702456	100	702467	100	702480	50	702585	25
2-1/2	702457	100	702468	100	702481	25	702586	25
3	702458	100	702469	50	702482	30	702587	10
3-1/2	702459	100	702470	50	702483	30	702588	10
4	702460	100	702471	50	702484	30	702589	10
4-1/2	---	-	702472	50	---	-	---	-
5	---	-	702473	50	---	-	---	-
5-1/2	---	-	702474	50	---	-	---	-
6	---	-	702475	50	---	-	---	-

Sizes: 3/16" x 1/2" through 3/8" x 4"
Part No. 501513
167 pieces • 20 items
12071 steel tray

702450	702458	702469	702480	702584
702451	702462	702471	702482	702585
702454	702465	702478	702484	702587
702456	702467	702479	702583	702589

Numbers in assortment

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STOVE BOLTS and EYE BOLTS

TRUSS HEAD STOVE BOLTS WITH HEX NUTS

- Extra large head provides more bearing surface, stronger assemblies.
- Precision rolled Class 2A threads.
- Deep slotted head.
- Conforms to ANSI B18.63.
- USS Coarse threads.

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. 3/16-24		DIA. 1/4-20		DIA. 5/16-18	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	**702485**	200	**702491**	100	---	-
3/4	**702486**	200	**702492**	100	**702590**	25
1	**702487**	100	**702493**	100	**702591**	25
1-1/4	**702488**	100	**702494**	100	---	-
1-1/2	**702489**	100	**702495**	100	**702592**	25
2	**702490**	100	**702496**	100	**702593**	25
2-1/2	---	-	**702497**	100	---	-

Sizes: 3/16" x 1/2" through 5/16" x 1"
Part No. 702006
137 pieces • 10 items • 12027 plastic tray

702485 702487 702492 702494 702496
702486 702489 702493 702495 702591

Numbers in assortment

Sizes: 3/16" x 1/2" through 5/16" x 2"
Part No. 501515
168 pieces • 17 items • 12071 steel tray

702485 702488 702491 702494 702497 702592
702486 702489 702492 702495 702590 702593
702487 702490 702493 702496 702591

Numbers in assortment

BENT EYE BOLTS WITH HEX NUTS

SIZE DIA. (A) X LENGTH (B)	PART NUMBER	WIRE GAUGE	SHANK LENGTH (C)	THREAD LENGTH (D)	INSIDE EYE DIA. (E)	THREAD SIZE	QTY
1/4 x 2	**507120**	.212	1	7/8	9/16	1/4-20	25
1/4 x 2-1/2	**507121**	.212	1-1/2	1-3/8	9/16	1/4-20	25
1/4 x 3	**507122**	.212	2	1-3/4	9/16	1/4-20	25
1/4 x 4	**507123**	.212	3	2-3/4	9/16	1/4-20	25
5/16 x 3-1/4	**507124**	.270	2	1-3/4	3/4	5/16-18	25
5/16 x 4	**507125**	.270	2-1/2	2-1/4	3/4	5/16-18	25
5/16 x 5	**507128**	.270	4	2-1/2	3/4	5/16-18	25
3/8 x 4	**507126**	.328	2-1/4	2	1	3/8-16	25
3/8 x 6	**507127**	.328	4-1/4	3	1	3/8-16	25

- Low carbon steel.
- USS Coarse threads.

Protected by **LUSTERPLATE™** against rust & corrosion

Sizes: 1/4" x 2" through 3/8" x 6"
Part No. 507005
27 pieces • 6 items
12047 plastic tray

507120 507123 507125
507122 507124 507126

Numbers in assortment

FORGED EYE BOLTS

SIZE DIA. (A) x LENGTH (B)	PART NUMBER	THREAD LENGTH (C)	INSIDE EYE DIA. (D)	WORKING LOAD LIMIT	QTY
1/4-20 x 2	**706615**	1-1/2	1/2	550 lbs.	2
1/4-20 x 4	**706616**	2-1/2	1/2	550 lbs.	2
5/16-18 x 2-1/4	**706617**	1-1/2	5/8	850 lbs.	2
5/16-18 x 4-1/4	**706618**	2-1/2	5/8	850 lbs.	2
3/8-16 x 2-1/2	**706619**	1-1/2	3/4	1250 lbs.	2
3/8-16 x 4-1/2	**706620**	2-1/2	3/4	1250 lbs.	2
3/8-16 x 6	**706621**	3	3/4	1250 lbs.	2
1/2-13 x 3-1/4	**706622**	1-1/2	1	2250 lbs.	2
1/2-13 x 6	**706623**	3	1	2250 lbs.	1
5/8-11 x 4	**706624**	2	1-1/4	3600 lbs.	1
5/8-11 x 6	**706625**	3	1-1/4	3600 lbs.	1
3/4-10 x 4-1/2	**706626**	2	1-1/2	5200 lbs.	1
3/4-10 x 6	**706627**	3	1-1/2	5200 lbs.	1

- Drop forged carbon steel.
- Galvanized for superior corrosion protection.
- USS Coarse Threads.

LIFTING EYE BOLTS

- 65,000 PSI minimum tensile strength.
- USS Coarse threads.
- Meets ASTM A489 specs and ANSI B18.15.
- Heat treated C-1030 steel.
- Designed for overhead lifting.

Protected by **BLACK OXIDE FINISH™** against rust & corrosion

SIZE DIA. (A) x LENGTH (B)	PART NUMBER	INSIDE EYE DIA. (C)	OUTSIDE EYE DIA. (D)	OVERALL LENGTH (E)	CENTER EYE TO SHOULDER (F)	RATED CAPACITY	QTY
1/4 x 1	**706638**	3/4	1-3/16	2-3/8	3/4	500 lbs.	2
5/16 x 1-1/8	**706639**	7/8	1-7/16	2-13/16	15/16	900 lbs.	2
3/8 x 1-1/4	**706640**	1	1-11/16	3-1/4	1-1/8	1300 lbs.	2
1/2 x 1-1/2	**706641**	1-3/16	2-1/8	3-31/32	1-3/8	2400 lbs.	2
5/8 x 1-3/4	**706642**	1-3/8	2-9/16	4-3/4	1-21/32	4000 lbs.	2
3/4 x 2	**706643**	1-1/2	2-13/16	5-1/4	1-13/16	5000 lbs.	1
7/8 x 2-1/4	**706644**	1-5/8	3-3/16	6	2-1/8	7000 lbs.	1
1 x 2-1/2	**706645**	1-13/16	3-9/16	6-5/8	2-5/16	9000 lbs.	1

CAUTION: DO NOT EXCEED SAFE WORKING LOAD. ANGULAR LIFTS SHOULD BE AVOIDED.

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EYE, U & J and HANGER BOLTS

LAG SCREW THREAD EYE BOLTS

Protected by **LUSTERPLATE™** against rust & corrosion

- Gimlet point.
- Low carbon steel.

SIZE DIA. (A) x LENGTH (B)	PART NUMBER	INSIDE EYE DIA. (C)	SHANK LENGTH (D)	THREAD LENGTH (E)	QTY
3/16 x 3	**706628**	3/8	2-3/16	1-1/8	10
1/4 x 3-3/4	**706629**	1/2	2-3/4	1-5/16	10
1/4 X 5	**706630**	1/2	4	1-7/8	10
5/16 x 4	**706631**	5/8	2-3/4	1-7/8	10
5/16 x 5	**706632**	5/8	3-3/4	1-7/8	10
5/16 x 6	**706633**	5/8	4-3/4	1-7/8	10
3/8 x 4-1/2	**706634**	3/4	2-3/4	1-15/16	5
3/8 x 6	**706635**	3/4	4-1/4	1-15/16	5
3/8 x 8	**706636**	3/4	6-1/4	2-7/8	5
7/16 x 5-1/4	**706637**	1	3-1/4	2-1/2	5

A12

U-BOLTS with HEX NUTS & PLATES

Protected by **LUSTERPLATE™** against rust & corrosion

Used to support pipes, tubing, bars and supply lines.

- Low carbon steel.
- USS Coarse threads.
- Complete with 2 hex nuts and 1 flat plate.

DIA. & THREAD (A)	PART NUMBER	LENGTH (B)	WIDTH BET. (C)	THREAD LENGTH (D)	FITS PIPE SIZE	QTY
1/4-20	**706575**	1-3/4	1	1	1/2	5
1/4-20	**706576**	2	1-1/8	1-1/4	3/4	5
1/4-20	**706577**	3-1/2	1-1/8	2-3/4	3/4	5
1/4-20	**706578**	2-3/4	1-3/8	1-3/4	1	5
5/16-18	**706579**	2-1/2	1-3/8	1-1/4	1	5
5/16-18	**706580**	3-11/16	1-3/8	2-3/8	1	5
5/16-18	**706581**	3	1-3/4	1-1/2	1-1/4	5
5/16-18	**706582**	4-3/16	1-3/4	2-1/2	1-1/4	5
5/16-18	**706583**	3	2	1-1/2	1-1/2	5
5/16-18	**706584**	4-11/16	2	2-3/4	1-1/2	5
5/16-18	**706585**	3-1/2	2-1/2	1-1/2	2	5
5/16-18	**706586**	4-3/16	2-1/2	2-1/4	2	5
5/16-18	**706587**	5-3/16	2-1/2	3	2	5
3/8-16	**706588**	3-5/8	2-1/2	1-3/4	2	5
3/8-16	**706589**	4-5/8	3-1/2	2	3	5

SQUARE U-BOLTS with HEX NUTS & PLATES

Protected by **LUSTERPLATE™** against rust & corrosion

- Low carbon steel.
- USS Coarse threads.
- Complete with two hex nuts and straps.

Used to support ducts, pipes, tubing, bars, conduit, and supply lines.

DIA. & THREAD (A)	PART NUMBER	LENGTH (B)	WIDTH BET. (C)	THREAD LENGTH (D)	QTY
5/16-18	**706595**	5	2	3	5
5/16-18	**706596**	7	2	3-3/4	5
3/8-16	**706597**	5	4	3	5
3/8-16	**706598**	6	3	3-1/2	5
3/8-16	**706599**	7	3	3-3/4	5

J-BOLTS with HEX NUTS

Protected by **LUSTERPLATE™** against rust & corrosion

- Low carbon steel.
- USS Coarse threads.

SIZE DIA. (A) x LENGTH (B)	PART NUMBER	HOOK I.D. (C)	THREAD LENGTHS (D)	QTY
3/16 x 1-7/8	**706600**	5/16	1-1/4	10
7/32 x 2-1/8	**706601**	3/8	1-1/4	10
1/4 x 2-5/16	**706602**	7/16	1-1/2	10
1/4 x 4	**706603**	1/2	2	10
1/4 x 5	**706604**	1/2	2-1/2	10
1/4 x 6	**706605**	5/8	2-1/2	10
5/16 x 3	**706606**	1/2	2	10

SIZE DIA. (A) x LENGTH (B)	PART NUMBER	HOOK I.D. (C)	THREAD LENGTHS (D)	QTY
5/16 x 5	**706608**	5/8	2-1/2	10
5/16 x 6	**706609**	5/8	2-1/2	10
5/16 x 7	**706610**	5/8	3-7/8	5
3/8 x 3-3/4	**706611**	5/8	2-1/4	10
3/8 x 5	**706612**	5/8	2-1/4	10
3/8 x 7	**706613**	5/8	2-1/4	5
1/2 x 6	706614	1	3	5

HANGER BOLTS

- Carbon steel.
- Clean rolled threads for tight fit.
- Sharp point for easy starting.
- Ideal for hanging almost anything.

Protected by **LUSTERPLATE™** against rust & corrosion

LENGTH	DIA. 1/4 PART NUMBER	QTY	DIA. 5/16 PART NUMBER	QTY	DIA. 3/8 PART NUMBER	QTY
2	**507201**	50	**507203**	50	**---**	-
3	**507202**	50	**507204**	50	**507205**	50
4	**---**	-	**---**	-	**507206**	50

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THREADED ROD and STUDS

THREADED ROD

DIA.	LENGTH 3 FT. PART NUMBER USS-PLAIN	LENGTH 3 FT. PART NUMBER SAE-PLAIN	LENGTH 6 FT. PART NUMBER USS-PLAIN	LENGTH 6 FT. PART NUMBER SAE-PLAIN	LENGTH 6 FT. PART NUMBER USS-PLATED	LENGTH 6 FT. PART NUMBER SAE-PLATED
4-40	51444	---	---	---	---	---
5-40	51445	---	---	---	---	---
6-32	51446	---	---	---	---	---
8-32	51447	---	---	---	---	---
10	51448	51426	---	---	---	---
12	51449	---	---	---	---	---
1/4	51402	51463	51901	51914	51950	51964
5/16	51403	51464	51902	51915	51951	51965
3/8	51404	51465	51903	51916	51952	51966
7/16	51405	51466	51904	51917	51953	51967
1/2	51406	51467	51905	51918	51954	51968
9/16	51414	51427	51906	51919	51955	51969
5/8	51407	51468	51907	51920	51956	51970
3/4	51408	51469	51908	51921	51957	51971
7/8	51409	51470	51909	51922	51958	51972
1	51410	51471	51910	51923	51959	51973
1-1/8	51411	51472	51911	51924	51960	51974
1-1/4	51412	51473	51912	51925	51961	51975
1-1/2	51413	51474	51913	51926	51962	51976

- Low carbon steel.
- USS-Coarse and SAE-Fine Thread.
- Full thread.
- 3 foot or 6 foot lengths.

SAE (FINE)
Part No. 501678
17 pieces • 9 items • 12006 metal rack

51463 51465 51467 51469 51471
51464 51466 51468 51470

Numbers in assortment

ASTM A193-B7 THREADED ROD

DIA.	PART NUMBER USS-PLAIN	USS-PLATED	SAE PLAIN
1/4	51450	51475	51487
5/16	51451	51476	51488
3/8	51452	51477	51489
7/16	51453	51478	51490
1/2	51454	51479	51491
5/8	51455	51480	51492
3/4	51456	51481	51493
7/8	51457	51482	51494
1	51458	51483	51495
1-1/8*	51459	51484	51496
1-1/4*	51460	51485	51497
1-1/2*	51461	51486	51498

*Use only A194-2H nuts found on page A11-7.

- Used for Grade 8 applications.
- 3 foot lengths.
- Color coded (orange) on one end for easy identification.
- 125,000 PSI minimum tensile strength.

SEE SECTION A13 FOR STAINLESS STEEL AND BRASS THREADED ROD, SECTION A16 FOR METRIC.

UNTHREADED STEEL FORMING ROD

DIA.	PART NUMBER
1/4	51415
5/16	51416
3/8	51417
7/16	51418
1/2	51419
5/8	51420
3/4	51421
7/8	51422
1	51423

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- Low carbon steel.
- Black finish.
- 3 foot long.
- Easily cut, drilled, tapped, welded and threaded.
- Used for: linkage rods, shafts, locking pins, anchor bolts, J-bolts, U-bolts, hook bolts, eye bolts control rods, push rods, etc.

Part No. 51400
6 pieces • 6 items

51415 51417 51419
51416 51418 51420

Numbers in assortment

ASTM A193-B7 FULLY THREADED STUDS

Used specifically for pipe flange bolting.

LENGTH	DIA. 1/2-13 PART NUMBER	QTY	DIA. 5/8-11 PART NUMBER	QTY	DIA. 3/4-10 PART NUMBER	QTY	DIA. 7/8-9 PART NUMBER	QTY	DIA. 1-8 PART NUMBER	QTY
2	702145	8	---	-	---	-	---	-	---	-
2-/2	702146	8	702181	8	---	-	---	-	---	-
3	702147	8	702152	8	702183	8	702184	6	---	-
3-1/2	702148	8	702153	8	702157	-	702185	6	---	-
4	702149	8	702154	8	702158	8	702165	6	702186	2
4-1/2	---	-	702155	8	702159	8	702166	6	---	-
5	702180	6	702156	8	702160	8	702167	6	702187	2
5-1/2	---	-	---	-	702161	8	702168	6	---	-
6	702150	6	702182	6	702162	6	702169	6	702188	2
6-1/2	---	-	---	-	702163	6	702170	6	---	-
7	---	-	---	-	702164	6	702171	6	702189	2
8	702151	6	---	-	---	-	---	-	702190	2

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- Also used for tie rods, tie downs, wall mounting, anchor bolting, etc.
- USS Coarse threads.
- Special heat-treated alloy steel - minimum tensile strength of 125,000 PSI to 1000°F.
- For use with A194-2H heavy hex nuts found on A11-7.

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STUDS and COUPLINGS

DOUBLE ENDED STUDS

- **Grade 5 high carbon heat treated steel.**
- **Ideal for manifolds, cylinder heads, wheels and general purpose.**

"A" DIA. x LENGTH	"B" DIA. x LENGTH	OVERALL LENGTH	PART NUMBER	QTY
1/4 USS x 3/8	1/4 USS x 1/2	1	**703600**	20
1/4 SAE x 3/8	5/16 USS x 3/8	1	**703601**	20
1/4 SAE x 7/16	1/4 USS x 7/16	1	**702101**	20
1/4 SAE x 1/2	1/4 USS x 1/2	1-1/4	**702102**	20
1/4 SAE x 3/4	1/4 USS x 1/2	1-1/2	**702103**	20
1/4 SAE x 1	1/4 USS x 1/2	2	**702104**	20
1/4 SAE x 1-7/8	1/4 USS x 3/8	2-1/2	**703602**	20
5/16 SAE x 1/2	5/16 USS x 3/8	1	**702105**	20
5/16 SAE x 5/8	5/16 USS x 1/2	1-1/4	**702106**	20
5/16 SAE x 5/8	3/8 USS x 7/16	1-1/4	**703603**	20
5/16 SAE x 5/8	5/16 USS x 3/4	1-1/2	**702107**	20
5/16 USS x 7/8	5/16 USS x 7/16	1-1/2	**703604**	20
5/16 SAE x 7/8	5/16 USS x 9/16	1-3/4	**702108**	20
5/16 USS x 5/16	5/16 USS x 1/2	1-3/4	**703605**	20
5/16 SAE x 1	5/16 USS x 9/16	2	**702109**	20
5/16 USS x 1	5/16 USS x 7/16	2	**703606**	20
5/16 SAE x 1/2	5/16 USS x 1/2	2-1/2	**703607**	20
5/16 SAE x 1-5/8	5/16USS x 1/2	2-1/2	**703633**	20
5/16 USS x 1-1/2	5/16 USS x 1/2	2-1/2	**703608**	20
5/16 SAE x 1-1/2	5/16 USS x 5/8	3	**703609**	20
3/8 SAE x 3/4	3/8 USS x 1/2	1-1/2	**702110**	20
3/8 USS x 11/16	3/8 USS x 9/16	1-1/2	**703610**	20
3/8 SAE x 3/4	3/8 USS x 1/2	1-3/4	**702111**	20
3/8 USS x 7/8	3/8 USS x 5/8	1-3/4	**703611**	20
3/8 SAE x 3/4	7/16 USS x 7/8	1-7/8	**703612**	20
3/8 SAE x 1	3/8 USS x 5/8	2	**702112**	20
3/8 USS x 1-1/8	3/8 USS x 5/8	2	**703613**	20
3/8 USS x 1	3/8 USS x 5/8	2-1/8	**703614**	20
3/8 USS x 1-1/2	3/8 USS x 7/16	2-7/32	**703615**	20
3/8 SAE x 1	3/8 USS x 5/8	2-3/8	**702113**	20
3/8 SAE x 1-5/16	7/16 USS x 7/8	2-1/2	**703617**	20
3/8 SAE x 1	3/8 USS x 3/4	2-3/4	**702114**	20
3/8 SAE x 2	3/8 USS x 5/8	3	**702115**	20
3/8 USS x 5/8	3/8 USS x 2	3	**703618**	20
3/8 USS x 1-5/8	3/8 USS x 7/16	3-1/4	**703619**	20
3/8 USS x 1-5/8	3/8 USS x 7/16	3-5/16	**703620***	20
3/8 SAE x 1	3/8 USS x 3/4	3-3/4	**703621**	20
3/8 USS x 2	3/8 USS x 3/4	4	**703622**	20
3/8 SAE x 1-7/8	3/8 USS x 1/2	4	**703623**	20
7/16 SAE x 3/4	7/16 USS x 1/2	1-1/2	**702116**	20
7/16 SAE x 3/4	7/16 USS x 9/16	1-3/4	**702117**	20
7/16 USS x 13/16	7/16 USS x 3/4	1-3/4	**703624**	20
7/16 SAE x 7/8	7/16 USS x 3/4	2	**702118**	20
7/16 USS x 15/16	7/16 USS x 3/4	2	**703625**	20
7/16 SAE x 15/16	1/2 USS x 3/4	2	**703626**	20
7/16 SAE x 3/4	7/16 USS x 3/4	2-1/4	**702119**	20
7/16 SAE x 7/8	1/2 USS x 7/8	2-1/4	**703627**	20
7/16 SAE x 7/8	7/16 USS x 3/4	2-1/2	**702120**	20
7/16 USS x 1-1/4	7/16 USS x 3/4	2-1/2	**703628**	20
7/16 SAE x 1-3/8	7/16 USS x 3/4	2-1/2	**703629**	20
7/16 SAE x 1	7/16 USS x 5/8	2-3/4	**702121**	20
7/16 SAE x 3/4	1/2 USS x 3/4	2-3/4	**703631**	20
7/16 SAE x 1-13/16	7/16 USS x 3/4	3	**702122**	20

"A" DIA. x LENGTH	"B" DIA. x LENGTH	OVERALL LENGTH	PART NUMBER	QTY
7/16 SAE x 1-13/16	1/2 USS x 11/16	3	**703632**	20
7/16 SAE x 2-3/16	7/16 USS x 3/4	3-1/4	**703634**	20
7/16 SAE x 2	7/16 USS x 1-3/16	3-1/2	**703635**	20
7/16 SAE x 3-1/8	7/16 USS x 13/16	4-3/8	**703636**	20
1/2 SAE x 5/8	1/2 USS x 9/16	1-1/2	**703637**	20
1/2 SAE x 7/8	1/2 USS x 3/4	1-3/4	**703638**	20
1/2 SAE x 3/4	1/2 USS x 3/4	1-7/8	**703639**	20
1/2 SAE x 5/16	1/2 USS x 5/8	2	**702123**	20
1/2 SAE x 1-1/8	1/2 USS x 3/4	2-1/4	**702124**	20
1/2 USS x 1-5/16	1/2 USS x 11/16	2-1/4	**703640**	20
1/2 SAE x 7/8	9/16 USS x 7/8	2-3/8	**703641**	20
1/2 SAE x 1	1/2 USS x 3/4	2-1/2	**702125**	20
1/2 SAE x 1-5/8	1/2 USS x 3/4	2-3/4	**702126**	20
1/2 SAE x 2	1/2 USS x 3/4	3	**702127**	20
1/2 USS x 1-7/8	1/2 USS x 5/8	3	**703642**	20
1/2 SAE x 1-7/8	9/16 USS x 5/8	3	**703643**	20
1/2 SAE x 2-1/4	1/2 USS x 15/16	3-1/2	**703644**	20
9/16 SAE x 1	9/16 USS x 3/4	2-1/2	**702130**	20
9/16 SAE x 1-9/16	9/16 USS 13/16	2-3/4	**703645**	20
9/16 SAE x 1-1/4	9/16 USS x 1	3	**703646**	20
9/16 SAE x 2	9/16 USS x 7/8	3-1/4	**703647**	20
5/8 USS x 1-1/4	5/8 USS x 3/4	2-1/2	**703648**	20
5/8 SAE x 1	5/8 USS x 3/4	2-1/2	**703649**	20
5/8 SAE x 1-1/2	5/8 USS x 13/16	2-5/8	**702132**	20
5/8 USS x 1-1/2	5/8 USS x 13/16	2-5/8	**703650**	20
5/8 USS x 1-1/2	5/8 USS x 15/16	2-3/4	**703651**	20
5/8 SAE x 1-1/4	5/8 USS x 1	3	**702133**	20
5/8 SAE x 1-1/2	5/8 USS x 1-1/4	3-1/2	**702134**	20
5/8 SAE x 1-3/4	5/8 USS x 1-1/2	4	**703652**	20
3/4 USS x 1-9/16	3/4 USS x 1-1/16	2-13/16	**703653**	20
3/4 USS x 1-3/4	3/4 USS x 1	3	**703654**	20
3/4 SAE x 1-7/8	3/4 USS x 1	3-1/4	**703655**	20

***Dog Point**

Sizes: 5/16" x 1-1/4" through 1/2" x 3"
Part No. 702001
68 pieces • 12 items
12038 plastic tray

720106	**702111**	**702117**	**702123**
702107	**702112**	**702118**	**702126**
702108	**702115**	**702121**	**702127**

Numbers in assortment

SEE SECTION A16 FOR METRIC COUPLINGS.

HEX ROD COUPLINGS

Protected by **LUSTERPLATE™** against rust & corrosion

- **High quality steel.**
- **Minimum tensile strength of 60,000 PSI.**
- **Ideal for leveling feet, rods over 3 feet long, jig and fixture work, spacing and hanging.**

Part No. 505022
12 pieces • 5 items • 12033 plastic tray

51430	**51432**	**51434**
51431	**51433**	

Numbers in assortment

USS COARSE THREADS

SIZE	PART NUMBER	WRENCH SIZE	LENGTH	QTY
4-40	**51436**	5/16	7/16	10
6-32	**51437**	5/16	1/2	10
8-32	**51438**	5/16	5/8	10
10-24	**51439**	5/16	3/4	10
1/4	**51430**	3/8	7/8	10
5/16	**51431**	1/2	1-1/8	10
3/8	**51432**	5/8	1-3/4	10
7/16	**51434**	5/8	1-3/4	10
1/2	**51433**	11/16	1-3/4	10
9/16	**51440**	13/16	2-1/8	10
5/8	**51435**	13/16	2-1/8	5
3/4	**51441**	1	2-1/4	5
7/8	**51442**	1-1/4	2-1/2	5
1	**51443**	1-3/8	2-1/2	5

SAE FINE THREADS

SIZE	PART NUMBER	WRENCH SIZE	LENGTH	QTY
10-32	**51385**	5/16	3/4	10
1/4	**51386**	3/8	7/8	10
5/16	**51387**	7/16	7/8	10
3/8	**51388**	5/8	1-3/4	10
7/16	**51389**	5/8	1-1/4	10
1/2	**51390**	11/16	1-3/4	10
9/16	**51391**	13/16	2-1/8	5
5/8	**51392**	13/16	2-1/8	5
3/4	**51393**	1	2-1/4	5
7/8	**51394**	1-1/4	2-1/2	5
1	**51395**	1-3/8	2-3/4	5

SEE SECTION A16 FOR METRIC COUPLINGS.

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STAINLESS STEEL

80 BIN 18-8 STAINLESS STEEL FASTENERS

- **18-8 Stainless Steel Hex Head Cap Screws USS (Coarse), hex nuts, flat and lock washers in sizes 1/4'' to 1/2'' diameters, in lengths to 3".**

1/4 lock washer	5/16 lock washer	3/8 lock washer	7/16 lock washer	1/2 lock washer			
1/4 flat washer	5/16 flat washer	3/8 flat washer	7/16 flat washer	1/2 flat washer			
1/4 hex nut	5/16 hex nut	3/8 hex nut	7/16 hex nut	1/2 hex nut			
1/4 x 1/2	1/4 x 3/4	1/4 x 1	1/4 x 1-1/4	1/4 x 1-1/2	1/4 x 1-3/4	1/4 x 2	
5/16 x 1/2	5/16 x 3/4	5/16 x 1	5/16 x 1-1/4	5/16 x 1-1/2	5/16 x 1-3/4	5/16 x 2	
3/8 x 3/4	3/8 x 1	3/8 x 1-1/4	3/8 x 1-1/2	3/8 x 1-3/4	3/8 x 2	3/8 x 2-1/2	3/8 x 3
7/16 x 3/4	7/16 x 1	7/16 x 1-1/4	7/16 x 1-1/2	7/16 x 1-3/4	7/16 x 2	7/16 x 2-1/4	7/16 x 2-1/2
1/2 x 1	1/2 x 1-1/2	1/2 x 2	1/2 x 2-1/2	1/2 x 3			7/16 x 3

18-8 STAINLESS STEEL USS (COARSE)

Part No. 501350
2825 pieces • 51 items
(2) 12021 steel cabinets

Assortment Photo for illustration purposes only.
Actual Contents may vary.

A13

18 DRAWER 18-8 STAINLESS STEEL FASTENERS

- **18-8 Stainless Steel Hex Head Cap Screws USS (Coarse), hex nuts, flat and lock washers in sizes 1/4'' to 1/2'' diameters, in lengths to 2".**

1/4 lock washer	5/16 lock washer	3/8 lock washer	7/16 lock washer	1/2 lock washer	
1/4 flat washer	5/16 flat washer	3/8 flat washer	7/16 flat washer	1/2 flat washer	
1/4 hex nut	5/16 hex nut	3/8 hex nut	7/16 hex nut	1/2 hex nut	
1/4 x 1/2	1/4 x 3/4	1/4 x 1	1/4 x 1-1/4	1/4 x 1-1/2	1/4 x 2
5/16 x 1/2	5/16 x 3/4	5/16 x 1	5/16 x 1-1/4	5/16 x 1-1/2	5/16 x 2
3/8 x 3/4	3/8 x 1	3/8 x 1-1/4	3/8 x 1-1/2	3/8 x 2	
7/16 x 3/4	7/16 x 1	7/16 x 1-1/4	7/16 x 1-1/2	7/16 x 2	
1/2 x 1	1/2 x 1-1/2	1/2 x 3			

18-8 STAINLESS STEEL USS (COARSE)

Part No. 501352
1765 pieces • 40 items
12020 steel cabinet

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STAINLESS STEEL

18-8 STAINLESS HEX HEAD CAP SCREWS

- USS coarse and SAE fine threads.
- Meets or exceeds ASTM F593 Alloy Group 1.
- 80,000 PSI minimum tensile strength.
- Good resistance to heat, cold and corrosion.

	DIA. 1/4-20		DIA. 1/4-28		DIA. 5/16-18		DIA. 5/16-24		DIA. 3/8-16		DIA. 3/8-24		DIA. 7/16-14		DIA. 7/16-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	702301	50	703901	50	702311	50	703913	50	703312	50	703924	50	---	-	---	-
5/8	703300	50	703902	50	703306	50	703914	50	703313	50	703925	50	---	-	---	-
3/4	702302	50	703903	50	702312	50	703915	50	702321	50	703926	50	702342	50	703936	50
1	702303	50	703904	50	702313	50	703916	50	702322	50	703927	50	702343	50	703937	50
1-1/4	702304	50	703905	50	702314	50	703917	50	702323	50	703928	50	702344	50	703938	50
1-1/2	702305	50	703906	50	702315	50	703918	50	702324	50	703929	50	702345	50	703939	50
1-3/4	702306	50	703907	50	702316	50	703919	50	702325	50	703930	50	702346	50	703940	50
2	702307	50	703908	50	702317	50	703920	50	702326	50	703931	50	702347	50	703941	50
2-1/4	702308	50	703909	50	702318	50	703921	50	703314	50	703932	50	702348	50	703942	50
2-1/2	702309	50	703910	50	702319	50	703922	50	702327	50	703933	50	702349	50	703943	50
2-3/4	703301	50	703911	50	703307	50	---	-	703315	50	703934	50	---	-	---	-
3	702310	50	703912	50	702320	50	703923	50	702328	50	703935	50	702351	50	703944	50
3-1/2	702335	25	---	-	702337	25	---	-	702339	25	---	-	702352	50	---	-
4	702336	25	---	-	702338	25	---	-	702340	25	---	-	702353	50	---	-
4-1/2	703302	10	---	-	703308	10	---	-	703316	10	---	-	---	-	---	-
5	703303	10	---	-	703309	10	---	-	703317	10	---	-	---	-	---	-
5-1/2	703304	10	---	-	703310	10	---	-	703318	10	---	-	---	-	---	-
6	703305	10	---	-	703311	10	---	-	703319	10	---	-	---	-	---	-

	DIA. 1/4-20		DIA. 1/4-28		DIA. 5/16-18		DIA. 5/16-24		DIA. 3/8-16		DIA. 3/8-24		DIA. 7/16-14		DIA. 7/16-20	
	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
Hex Nut	703101	50	703155	50	703102	50	703156	50	703103	50	703157	50	703105	50	703158	50
Flat Washer	704125	100	---	-	704126	100	---	-	704127	100	---	-	704129	100	---	-
Lock Washer	704105	100	---	-	704106	100	---	-	704107	100	---	-	704109	100	---	-

Sizes: 1/4" x 1" through 7/16" x 2"
USS (COARSE) Includes hex nuts
Part No. 501353
450 pieces • 22 items • 12017 steel tray

702301	702303	702307	702312	702315	702321	702324	702342	702345	703101	703103
702302	702305	702311	702313	702317	702322	702326	702343	702347	703102	703105

Numbers in assortment

18-8 STAINLESS HEX HEAD CAP SCREWS

- USS coarse and SAE fine threads.
- Meets or exceeds ASTM F593 Alloy Group 1.
- 80,000 PSI minimum tensile strength.
- Good resistance to heat, cold and corrosion.

	DIA. 1/2-13		DIA. 1/2-20		DIA. 5/8-11		DIA. 3/4-10		DIA. 7/8-9		DIA. 1-8	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	---	-	---	-	---	-	---	-	---	-	---	-
5/8	---	-	---	-	---	-	---	-	---	-	---	-
3/4	---	-	---	-	---	-	---	-	---	-	---	-
1	702329	25	703945	25	702354	25	702368	10	---	-	---	-
1-1/4	703320	25	703946	25	702355	25	702369	10	---	-	---	-
1-1/2	702330	25	703947	25	702356	25	702370	10	702382	10	---	-
1-3/4	703321	25	703948	25	702357	25	702371	10	702383	10	---	-
2	702331	25	703949	25	702358	25	702372	10	702384	10	702394	5
2-1/4	703322	25	703950	25	702359	10	702373	10	702385	10	702395	5
2-1/2	702332	25	703951	25	702360	10	702374	10	702386	10	702396	5
2-3/4	703323	25	703952	25	703328	10	703329	10	---	-	---	-
3	702333	25	703953	25	702361	10	702375	10	702387	10	702397	5
3-1/2	702334	25	---	-	702362	10	702376	10	702388	10	702398	1
4	702341	25	---	-	702363	10	702377	10	702389	5	702399	1
4-1/2	703324	10	---	-	702364	10	702378	10	702390	5	703110	1
5	703325	10	---	-	702365	10	702379	10	702391	5	703111	1
5-1/2	703326	10	---	-	702366	10	702380	10	702392	5	703112	1
6	703327	10	---	-	702367	10	702381	10	702393	5	703113	1

	DIA. 1/2-13		DIA. 1/2-20		DIA. 5/8-11		DIA. 3/4-10		DIA. 7/8-9		DIA. 1-8	
	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
Hex Nut	703104	50	703159	50	703106	50	703107	50	703108	50	703109	50
Flat Washer	704128	100	---	-	704130	100	704131	100	704132	100	704133	100
Lock Washer	704108	100	---	-	704110	100	704111	100	704112	100	704113	100

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STAINLESS STEEL

FOOD PROCESSING and SERVICE STAINLESS STEEL HARDWARE ASSORTMENT

Our New assortment provides the essential ingredients for successfull maintenance operations in the food handling industry.

- **Products you need are on-hand, in stock & easy to find.**
- **Assortments customized for your industry.**

TO COVER YOUR MAINTENANCE NEEDS, THIS ASSORTMENT CONTAINS:

316 STAINLESS STEEL HARDWARE
Sizes: 1/4 x 1/2" to 1/2 x 2"
Includes hex nuts, flat & lock washers
Part No. 501516

18-8 STAINLESS STEEL PAN HEAD PHILLIPS SHEET METAL SCREWS
Sizes: No. 6 x 1/2" to No. 14 x 2"
Part No. 501362

18-8 STAINLESS STEEL PAN HEAD PHILLIPS MACHINE SCREWS
Sizes: No. 4-40 x 1/2" to 1/4-20 x 2"
Includes hex nuts
Part No. 501358

STAINLESS STEEL HOSE CLAMPS
7 Sizes: From 06 through 48
Part No. 501393

Includes: 4 assortments, slide rack & stand
Part No. 501762

316 STAINLESS STEEL HEX HEAD CAP SCREWS

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 1/2-13		DIA. 5/8-11		DIA. 3/4-10		DIA. 7/8-9		DIA. 1-8	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	703400	25	703415	25	703431	20	---	-	---	-	---	-	---	-	---	-
5/8	703401	25	703416	25	703432	20	---	-	---	-	---	-	---	-	---	-
3/4	703402	25	703417	25	703433	20	---	-	---	-	---	-	---	-	---	-
1	703403	25	703418	25	703434	20	703447	10	703460	5	---	-	---	-	---	-
1-1/4	703404	25	703419	25	703435	20	703448	10	703461	5	---	-	---	-	---	-
1-1/2	703405	25	703420	25	703436	20	703449	10	703462	5	703475	2	---	-	---	-
1-3/4	703406	25	703421	25	703437	20	703450	10	703463	5	703476	2	---	-	---	
2	703407	25	703422	25	703438	20	703451	10	703464	5	703477	2	703488	2	703496	2
2-1/4	703408	25	703423	25	703439	10	703452	10	703465	5	703478	2	---	-	---	-
2-1/2	703409	25	703424	25	703440	10	703453	10	703466	5	703479	2	703489	2	---	-
2-3/4	---	-	703425	25	703441	10	703454	10	703467	5	703480	2	---	-	---	-
3	703410	10	703426	10	703442	10	703455	10	703468	5	703481	2	703490	2	703497	2
3-1/2	703411	10	703427	10	703443	10	703456	5	703469	5	703482	2	703491	2	---	-
4	703412	10	703428	10	703444	10	703457	5	703470	5	703483	2	703492	2	703498	2
4-1/2	703413	10	703429	10	703445	10	703458	5	703471	2	703484	2	703493	2	---	-
5	703414	10	703430	10	703446	10	703459	5	703472	2	703485	2	703494	2	703499	2
5-1/2	---	-	---	-	---	-	---	-	703473	2	703486	2	---	-	---	-
6	---	-	---	-	---	-	---	-	703474	2	703487	2	703495	2	703500	2

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 1/2-13		DIA. 5/8-11		DIA. 3/4-10		DIA. 7/8-9		DIA. 1-8	
	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
Hex Nut	704205	50	704206	50	704207	25	704208	25	704209	10	704210	10	704211	5	704212	5
Flat Washer	704215	50	704216	50	704217	25	704218	25	704219	10	704220	10	704221	10	704222	10
Lock Washer	704225	50	704226	50	704227	25	704228	25	704229	10	704230	10	704231	10	704232	10

Sizes: 1/4" x 1/2" through 1/2" x 2"
USS (COARSE) Includes hex nuts, flat & lock washers
Part No. 501516
440 pieces • 30 items • 12017 steel tray

703400	703407	703420	703434	703449	704207	704217	704227
703402	703415	703422	703436	703451	704208	704218	704228
703403	703417	703431	703438	704205	704215	704225	
703405	703418	703433	703447	704206	704216	704226	

Numbers in assortment

- **USS coarse threads.**
- **80,000 PSI minimum tensile strength.**
- **Meets or exceeds ASTM F593 Alloy Group 2.**
- **Superior corrosion resistance to chemicals and salt water.**
- **Excellent low temperature resistance.**

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STAINLESS STEEL

SOCKET HEAD SHOULDER SCREWS

- 18-8 stainless steel.
- USS threads.
- Class 3A fully formed threads.
- Knurled head for sure grip.
- Minimum tensile strength: 80,000 PSI

MOVING SHAFT OR PIVOT

STATIONARY GUIDE

PULLEY SHAFT USES

A SHOULDER DIA.	B THREAD DIA..	C SHOULDER LENGTH	PART NUMBER DIA.	QTY	A SHOULDER DIA.	B THREAD DIA..	C SHOULDER LENGTH	PART NUMBER DIA.	QTY
1/4	10-24	3/8	**704450**	10	3/8	5/16-18	3/8	**704464**	10
1/4	10-24	1/2	**704451**	10	3/8	5/16-18	1/2	**704465**	10
1/4	10-24	5/8	**704452**	10	3/8	5/16-18	5/8	**704466**	10
1/4	10-24	3/4	**704453**	10	3/8	5/16-18	3/4	**704467**	10
1/4	10-24	1	**704454**	10	3/8	5/16-18	1	**704468**	5
1/4	10-24	1-1/4	**704455**	10	3/8	5/16-18	1-1/4	**704469**	5
1/4	10-24	1-1/2	**704456**	10	3/8	5/16-18	1-1/2	**704470**	5
5/16	1/4-20	3/8	**704457**	10	1/2	3/8-16	3/8	**704471**	5
5/16	1/4-20	1/2	**704458**	10	1/2	3/8-16	1/2	**704472**	5
5/16	1/4-20	5/8	**704459**	10	1/2	3/8-16	5/8	**704473**	5
5/16	1/4-20	3/4	**704460**	10	1/2	3/8-16	3/4	**704474**	5
5/16	1/4-20	1	**704461**	10	1/2	3/8-16	1	**704475**	5
5/16	1/4-20	1-1/4	**704462**	10	1/2	3/8-16	1-1/4	**704476**	5
5/16	1/4-20	1-1/2	**704463**	10	1/2	3/8-16	1-1/2	**704477**	5

Key sizes: 1/4" dia. - 1/8 key; 5/16" dia. - 5/32 key; 3/8" dia. - 3/16 key; 1/2 dia. - 1/4 key

A13

18-8 STAINLESS STEEL SOCKET HEAD CAP SCREWS

- USS coarse threads.
- Conforms to ANSI B18.3 specifications.

	DIA. 6-32 7/64 HEX KEY		DIA. 8-32 9/64 HEX KEY		DIA. 10-24 5/32 HEX KEY		DIA. 1/4-20 3/16 HEX KEY		DIA. 5/16-18 1/4 HEX KEY		DIA. 3/8-16 5/16 HEX KEY		DIA. 1/2-13 3/8 HEX KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	**702805**	50	---	-	---	-	---	-	---	-	---	-	---	-
3/8	--	-	**702809**	50	---	-	---	-	---	-	---	-	---	-
1/2	**702806**	50	**702810**	50	**702814**	50	**702819**	50	**702827**	25	---	-	---	-
5/8	**702807**	50	**702811**	50	---	-	**702820**	50	--	-	--	-	--	-
3/4	**702808**	-	**702812**	50	**702815**	50	**702821**	50	**702828**	25	**702834**	25	--	-
1	---	-	**702813**	50	**702816**	50	**702822**	50	**702829**	25	**702835**	25	**702839**	10
1-1/4	---	-	--	-	**702817**	50	**702823**	25	**702830**	25	**702836**	25	**702840**	10
1-1/2	---	-	--	-	**702818**	50	**702824**	25	**702831**	25	**702837**	25	**702841**	10
1-3/4	---	-	---	-	--	-	**702825**	25	**702832**	25	--	-	**702842**	10
2	---	-	---	-	--	-	**702826**	25	**702833**	25	**702838**	25	**702843**	10
2-1/2	---	-	---	-	---	-	---	-	---	-	---	-	**702844**	10

Sizes: No. 6-32 x 1/4" through 1/2-13 x 2"
USS (COARSE)
Part No. 501369
405 pieces • 24 items
12017 steel tray

702805	702813	702816	702821	702826	702829	702835	702840
702806	702814	702818	702822	702827	702831	702837	702842
702810	702815	702819	702824	702828	702833	702838	702843

Numbers in assortment

18-8 STAINLESS SOCKET SET SCREWS

- USS coarse threads.
- Conforms to ANSI B18.3 specifications.
- Cup point.

	DIA. 6-32 1/16 HEX KEY		DIA. 8-32 5/64 HEX KEY		DIA. 10-24 3/32 HEX KEY		DIA. 1/4-20 1/8 HEX KEY		DIA. 5/16-18 5/32 HEX KEY		DIA. 3/8-16 3/16 HEX KEY		DIA. 1/2-13 1/4 HEX KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/8	**702855**	50	**702860**	50	---	-	---	-	---	-	---	-	---	-
3/16	**702856**	50	**702861**	50	**702866**	50	---	-	---	-	---	-	---	-
1/4	**702857**	50	**702862**	50	**702867**	50	**702871**	50	**702877**	50	---	-	---	-
5/16	**702858**	50	**702863**	50	**702868**	50	**702872**	50	**702878**	50	--	-	--	-
3/8	**702859**	50	**702864**	50	**702869**	50	**702873**	50	**702879**	50	**702883**	50	--	-
1/2	---	-	**702865**	50	**702870**	50	**702874**	50	**702880**	50	**702884**	50	**702887**	25
3/4	---	-	---	-	--	-	**702875**	50	**702881**	50	**702885**	50	**702888**	25
1	---	-	---	-	--	-	**702876**	50	**702882**	50	**702886**	50	**702889**	25

Sizes: No. 6-32 x 1/8" through 1/2-13 x 2"
USS (COARSE)
Part No. 501370 • 435 pieces • 24 items • 12017 steel tray

702855	702860	702867	702871	702875	702879	702884	702887
702857	702862	702869	702873	702876	702880	702885	702888
702859	702864	702870	702874	702877	702883	702886	702889

Numbers in assortment

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STAINLESS STEEL

18-8 STAINLESS STEEL FLAT HEAD SOCKET CAP SCREWS

- USS coarse threads*.
- Flat head provides a flush finish.
- 80,000 PSI tensile strength.
- Conforms to ANSI B13.3 specifications.

	DIA. 2-56 .050 HEX KEY		DIA. 4-40 1/16 HEX KEY		DIA. 6-32 5/64 HEX KEY		DIA. 8-32 3/32 HEX KEY		DIA. 10-24 1/8 HEX KEY		DIA. 10-32* 1/8 HEX KEY		DIA. 1/4-20 5/32 HEX KEY		DIA. 5/16-18 3/16 HEX KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/16	703700	50	---	-	---	-	---	-	---	-	---	-	---	-	---	-
1/4	703701	50	703704	50	703711	50	703720	50	---	-	---	-	---	-	---	-
5/16	703702	50	703705	50	703712	50	703721	50	---	-	---	-	---	-	---	-
3/8	703703	50	703706	50	703713	50	703722	50	703729	50	703736	50	703743	50	---	-
1/2	---	-	703707	50	703714	50	703723	50	703730	50	703737	50	703744	50	703751	25
5/8	---	-	703708	50	703715	50	703724	50	703731	50	703738	50	703745	50	703752	25
3/4	---	-	703709	50	703716	50	703725	50	703732	50	703739	50	703746	50	703753	25
1	---	-	703710	50	703717	50	703726	50	703733	50	703740	50	703747	50	703754	25
1-1/4	---	-	---	-	703718	50	703727	50	703734	50	703741	50	703748	25	703755	25
1-1/2	---	-	---	-	703719	50	703728	50	703735	50	703742	50	703749	25	703756	25
2	---	-	---	-	---	-	---	-	---	-	---	-	703750	25	703757	25

USS (COARSE)
Part No. 501583
390 pieces • 22 items
12017 steel tray

703711	703726	703733	703746	703751	703756	703764	703769
703714	703730	703735	703747	703753	703761	703766	
703723	703732	703744	703749	703754	703763	703768	

Numbers in assortment

	DIA. 3/8-16 7/32 HEX KEY		DIA. 1/2-13 5/16 HEX KEY		DIA. 5/8-11 3/8 HEX KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	703758	25	---	-	---	-
5/8	703759	25	---	-	---	-
3/4	703760	25	703765	10	---	-
1	703761	25	703766	10	703770	10
1-1/4	703762	25	703767	10	703771	10
1-1/2	703763	25	703768	10	703772	10
2	703764	25	703769	10	703773	10

*10-32 Fine thread (SAE)

18-8 STAINLESS STEEL BUTTON HEAD SOCKET CAP SCREWS

- USS coarse threads*.
- Low head height for stream line design.
- 80,000 PSI tensile strength.
- Conforms to ANSI B13.3 specifications.

	DIA. 2-56 .050 HEX KEY		DIA. 4-40 1/16 HEX KEY		DIA. 6-32 5/64 HEX KEY		DIA. 8-32 3/32 HEX KEY		DIA. 10-24 1/8 HEX KEY		DIA. 10-32* 1/8 HEX KEY		DIA. 1/4-20 5/32 HEX KEY		DIA. 5/16-18 3/16 HEX KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/16	703800	50	703805	50	703813	50	---	-	---	-	---	-	---	-	---	-
1/4	703801	50	703806	50	703814	50	703823	50	703832	50	703842	50	---	-	---	-
5/16	703802	50	703807	50	703815	50	703824	50	---	-	---	-	---	-	---	-
3/8	703803	50	703808	50	703816	50	703825	50	703833	50	703843	50	703852	50	---	-
1/2	703804	50	703809	50	703817	50	703826	50	703834	50	703844	50	703853	50	703861	25
5/8	---	-	703810	50	703818	50	703827	50	703835	50	703845	50	703854	50	703862	25
3/4	---	-	703811	50	703819	50	703828	50	703836	50	703846	50	703855	50	703863	25
1	---	-	703812	50	703820	50	703829	50	703837	50	703847	50	703856	25	703864	25
1-1/4	---	-	---	-	703821	50	703830	50	703838	50	703848	50	703857	25	703865	25
1-1/2	---	-	---	-	703822	50	703831	50	703839	50	703849	50	703858	25	703866	25
1-3/4	---	-	---	-	---	-	---	-	703840	50	703850	50	703859	25	703867	25
2	---	-	---	-	---	-	---	-	703841	50	703851	50	703860	25	703868	25

*10-32 Fine thread (SAE)

USS (COARSE)
Part No. 501584
340 pieces • 22 items
12017 steel tray

703806	703817	703825	703829	703837	703856	703860	703868
703809	703819	703826	703834	703838	703857	703864	
703814	703820	703828	703836	703839	703858	703866	

Numbers in assortment

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STAINLESS STEEL

18-8 STAINLESS STEEL CARRIAGE BOLTS

	DIA. 1/4		DIA. 5/16		DIA. 3/8		DIA. 1/2	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	**703350**	50	---	-	---	-	---	-
3/4	**703351**	50	**703361**	50	**703371**	25	---	-
1	**703352**	50	**703362**	50	**703372**	25	**703383**	10
1-1/4	**703353**	50	**703363**	25	**703373**	25	---	-
1-1/2	**703354**	50	**703364**	25	**703374**	25	**703384**	10
1-3/4	**703355**	25	**703365**	25	**703375**	25	---	-
2	**703356**	25	**703366**	25	**703376**	25	**703385**	10
2-1/2	**703357**	25	**703367**	25	**703377**	25	**703386**	10
3	**703358**	25	**703368**	25	**703378**	25	**703387**	10
3-1/2	**703359**	25	**703369**	25	**703379**	10	**703388**	10
4	**703360**	25	**703370**	10	**703380**	10	**703389**	10
5	---	-	---	-	**703381**	10	**703390**	10
6	---	-	---	-	**703382**	10	**703391**	10

- **USS coarse threads.**

A13

18-8 STAINLESS HEX LAG SCREWS

	DIA. 1/4		DIA. 5/16		DIA. 3/8		DIA. 1/2	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	**705240**	50	---	-	---	-	---	-
1-1/2	**705241**	50	**705246**	25	**705251**	25	---	-
2	**705242**	25	**705247**	25	**705252**	25	**705256**	10
2-1/2	**705243**	25	**705248**	25	**705253**	25	**705257**	10
3	**705244**	25	**705249**	25	**705254**	25	**705258**	10
4	**705245**	25	**705250**	10	**705255**	10	**705259**	10

STAINLESS STEEL SQUARE KEYSTOCK

SIZE	PART NUMBER	QTY	SIZE	PART NUMBER	QTY
1/8x1/8	**704175**	2	1/2x1/2	**704181**	1
3/16x3/16	**704176**	2	5/8x5/8	**704182**	1
1/4x1/4	**704177**	2	3/4x3/4	**704183**	1
5/16x5/16	**704178**	2	7/8x7/8	**704184**	1
3/8x3/8	**704179**	1	1 x 1	**704185**	1
7/16x7/16	**704180**	1	--	---	-

Use to cut and fit your own machinery keys.

- **Machine cut corners are sharp and square.**
- **OUR keystock is engineered to eliminate backlash. Assures more efficient operation and longer life.**
- **Finished oversize for snug fit.**
- **Size marked on every bar.**
- **Parallel faces insure perfect fit.**
- **Tolerances: +.002 to -.000**
- **Handy 12" length.**
- **303 Stainless Steel.**

Sizes: 3/16" through 1/2"
Part No. 501709
11 pieces • 6 items
12116 steel tray

704176 704178 704180
704177 704179 704181

Numbers in assortment

18-8 STAINLESS STEEL HEX FINISHED NUTS

SIZE	PART NUMBER USS THREAD	PART NUMBER SAE THREAD	WRENCH SIZE	HEIGHT	QTY
1/4	**703101**	**703155**	7/16	7/32	50
5/16	**703102**	**703156**	1/2	17/64	50
3/8	**703103**	**703157**	9/16	21/64	50
7/16	**703105**	**703158**	11/16	3/8	50
1/2	**703104**	**703159**	3/4	7/16	50
5/8	**703106**	---	15/16	35/64	50
3/4	**703107**	---	1-1/8	41/64	25
7/8	**703108**	---	1-5/16	3/4	10
1	**703109**	---	1-1/2	55/64	10

- **USS coarse and SAE fine threads.**

Sizes: 1/4" through 1/2"
SAE (FINE)
Part No. 705010
150 pieces • 5 items
12047 plastic tray

703155 703157 703159
703156 703158

Numbers in assortment

18-8 STAINLESS STEEL HEX JAM NUTS

SIZE	PART NUMBER	WRENCH SIZE	HEIGHT	QTY
1/4	**703160**	7/16	5/32	50
5/16	**703161**	1/2	3/16	50
3/8	**703162**	9/16	7/32	50
7/16	**703163**	11/16	1/4	50
1/2	**703164**	3/4	5/16	50
5/8	**703165**	15/16	3/8	25
3/4	**703166**	1-1/8	27/64	25
7/8	**703167**	1-5/16	31/64	10
1	**703168**	1-1/2	35/64	10

- **USS coarse threads.**

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STAINLESS STEEL

18-8 STAINLESS STEEL HEX MACHINE SCREW NUTS

Sizes: No. 4-40 through 1/4-20
USS (COARSE)
Part No. 705004
550 pieces • 6 items
12028 plastic tray

703125	703127	703129
703126	703128	703130

Numbers in assortment

● **USS coarse threads.**

SIZE	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
4-40	**703125**	1/4	3/32	100
6-32	**703126**	5/16	7/64	100
8-32	**703127**	11/32	1/8	100
10-24†	**703128**	3/8	1/8	100
10-32*†	**703129**	3/8	1/8	100
1/4-20	**703130**	7/16	3/16	100

*** SAE Fine thread.** **† 3/16 diameter.**

18-8 STAINLESS STEEL NYLON INSERT LOCK NUTS

SIZE	PART NO. USS COARSE	SIZE	PART NO. SAE FINE	WRENCH SIZE	HEIGHT	QTY
4-40	**703135**	--	---	1/4	.143	25
6-32	**703136**	--	---	5/16	.170	25
8-32	**703137**	--	---	11/32	.229	25
10-24*	**703138**	10-32*	**703139**	3/8	.239	25
1/4	**703140**	1/4	**703340**	7/16	5/16	25
5/16	**703141**	5/16	**703341**	1/2	11/32	25
3/8	**703142**	3/8	**703342**	9/16	29/64	25

SIZE	PART NO. USS COARSE	SIZE	PART NO. SAE FINE	WRENCH SIZE	HEIGHT	QTY
7/16	**703134**	7/16	**703334**	5/8	29/64	25
1/2	**703143**	1/2	**703343**	3/4	19/32	10
5/8	**703144**	5/8	---	15/16	3/4	10
3/4	**703145**	3/4	---	1-1/16	7/8	10
7/8	**703132**	--	---	1-1/4	63/64	5
1	**703133**	--	---	1-7/16	1-3/64	5

***3/16**

Sizes: No. 10-32 through 1/2"
SAE (FINE)
Part No. 705011
160 pieces • 6 items
12047 plastic tray

703139	703340	703342
703334	703341	703343

Numbers in assortment

Sizes: No. 4-40 through 3/4"
USS (COARSE)
Part No. 501357
385 pieces • 11 items
12061 steel tray

703135	703138	703141	703144
703136	703139	703142	703145
703137	703140	703143	

Numbers in assortment

18-8 STAINLESS STEEL HEAVY HEX NUTS

Sizes: 1/4" through 1"
USS (COARSE)
Part No. 501729
104 pieces • 9 items
12061 steel tray

703530	703533	703536
703531	703534	703537
703532	703535	703538

Numbers in assortment

SIZE	PART NO. USS COARSE	QTY	PART NO. SAE FINE	QTY	WRENCH SIZE	HEIGHT
1/4	**703530**	50	**703540**	50	1/2	15/64
5/16	**703531**	50	**703541**	50	9/16	19/64
3/8	**703532**	50	**703542**	50	11/16	23/64
7/16	**703533**	25	---	-	3/4	27/64
1/2	**703534**	25	**703543**	25	7/8	31/64
5/8	**703535**	10	---	-	1-1/16	39/64
3/4	**703536**	10	---	-	1-1/4	47/64
7/8	**703537**	5	---	-	1-7/16	55/64
1	**703538**	5	---	-	1-5/8	63/64

316 STAINLESS STEEL NYLON INSERT LOCK NUTS

● **USS coarse threads.**

SIZE	PART NO. USS COARSE	WRENCH SIZE	HEIGHT	QTY
1/4	**703510**	7/16	5/16	25
5/16	**703511**	1/2	11/32	25
3/8	**703512**	9/16	29/64	25
1/2	**703513**	3/4	19/32	10
5/8	**703514**	15/16	3/4	10
3/4	**703515**	1-1/16	7/8	10
7/8	**703516**	1-1/4	63/64	5
1	**703517**	1-7/16	1-3/64	5

316 STAINLESS STEEL HEX JAM NUTS

Sizes: 1/4" through 3/4"
USS (COARSE)
Part No. 705013
134 pieces • 6 items
12047 plastic tray

703520	703522	703524
703521	703523	703525

Numbers in assortment

● **USS coarse threads.**

SIZE	PART NO. USS COARSE	WRENCH SIZE	HEIGHT	QTY
1/4	**703520**	7/16	5/32	50
5/16	**703521**	1/2	3/16	50
3/8	**703522**	9/16	7/32	50
1/2	**703523**	3/4	5/16	50
5/8	**703524**	15/16	3/8	25
3/4	**703525**	1-1/8	27/64	25
7/8	**703526**	1-5/16	31/64	10
1	**703527**	1-1/2	35/64	10

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STAINLESS STEEL

316 STAINLESS STEEL HEX FINISHED NUTS

SIZE	PART NUMBER	WRENCH SIZE	HEIGHT	QTY
1/4	**704205**	7/16	7/32	50
5/16	**704206**	1/2	17/64	50
3/8	**704207**	9/16	21/64	25
1/2	**704208**	3/4	7/16	25
5/8	**704209**	15/16	35/64	10
3/4	**704210**	1-1/8	41/64	10
7/8	**704211**	1-5/16	3/4	5
1	**704212**	1-1/2	55/64	5

● **USS coarse threads.**

Sizes: 1/4" through 3/4"
USS (COARSE)
Part No. 704200
139 pieces • 6 items
12047 plastic tray

704205 704207 704209
704206 704208 704210
Numbers in assortment

18-8 STAINLESS STEEL WING NUTS

SIZE	PART NUMBER	O/A WIDTH	O/A HEIGHT	QTY
6-32	**703146**	11/16	11/32	25
8-32	**703147**	13/16	13/32	25
10-24†	**703148**	13/16	13/32	25
10-32*†	**703149**	13/16	13/32	25
1/4	**703150**	1-1/16	1/2	25
5/16	**703151**	1-3/16	19/32	25
3/8	**703152**	1-3/8	11/16	25
1/2	**703153**	1-7/8	15/16	25
5/8	**703154**	2-11/16	1-3/8	10

***SAE Fine Thread** **†3/16**

● **USS coarse threads.**

Sizes: No. 6-32 through 5/16"
USS (COARSE)
Part No. 705006
85 pieces • 6 items
12032 plastic tray

703146 703148 703150
703147 703149 703151
Numbers in assortment

18-8 STAINLESS STEEL CAP/ACORN NUTS

SIZE	PART NUMBER	WRENCH SIZE	HEIGHT	QTY
4-40	**703114**	1/4	1/4	25
6-32	**703115**	5/16	19/64	25
8-32	**703116**	5/16	19/64	25
10-24†	**703117**	3/8	25/64	25
10-32*†	**703118**	3/8	25/64	25
1/4	**703119**	7/16	15/32	25
5/16	**703120**	9/16	17/32	25
3/8	**703121**	5/8	5/8	25
1/2	**703122**	3/4	13/16	25
5/8	**703123**	1	63/64	10
3/4	**703124**	1-1/16	1-1/16	10
--	**---**	--	--	-

***SAE Fine Thread** **†3/16**

● **USS coarse threads.**

18-8 STAINLESS STEEL TOOTHED LOCK WASHERS

– INTERNAL –

SIZE	PART NUMBER	QTY	SIZE	PART NUMBER	QTY
4	**703180**	250	1/4	**703184**	250
6	**703181**	250	5/16	**703185**	100
8	**703182**	250	3/8	**703186**	100
10	**703183**	250	1/2	**703187**	50

– EXTERNAL –

SIZE	PART NUMBER	QTY	SIZE	PART NUMBER	QTY
4	**703188**	250	1/4	**703192**	250
6	**703189**	250	5/16	**703193**	100
8	**703190**	250	3/8	**703194**	100
10	**703191**	250	1/2	**703195**	50

Sizes: No. 8 through 1/2"
Part No. 705007
300 pieces • 6 items
12032 plastic tray

703182 703184 703186
703183 703185 703187
Numbers in assortment

Sizes: No. 8 through 1/2"
Part No. 705008
300 pieces • 6 items
12032 plastic tray

703190 703192 703194
703191 703193 703195
Numbers in assortment

18-8 STAINLESS STEEL FLAT WASHERS

SIZE	PART NUMBER	I.D.	O.D.	THICKNESS	QTY
4	**704121**	.125	5/16	1/32	100
6	**704122**	.149	3/8	1/32	100
8	**704123**	.174	3/8	1/32	100
10	**704124**	.203	7/16	1/16	100
12	**704134**	.250	9/16	.045	100
1/4	**704125**	.281	5/8	.050	100
5/16	**704126**	.337	3/4	.050	100
3/8	**704127**	25/64	7/8	.050	100
7/16	**704129**	1/2	1-1/8	1/16	100
1/2	**704128**	9/16	1-1/4	5/64	100
5/8	**704130**	11/16	1-1/2	5/64	50
3/4	**704131**	13/16	1-3/4	7/64	50
7/8	**704132**	15/16	2	7/64	50
1	**704133**	1-1/16	2	1/8	50

Sizes: No. 6 through 1"
Part No. 501355
1370 pieces • 12 items
12061 steel tray

704122 704125 704128 704131
704123 704126 704129 704132
704124 704127 704130 704133
Numbers in assortment

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STAINLESS STEEL

316 STAINLESS STEEL FLAT WASHERS

Sizes: 1/4" through 3/4"
Part No. 704201
150 pieces • 6 items
12047 plastic tray

704215 704217 704219
704216 704218 704220

Numbers in assortment

SIZE	PART NUMBER	I.D.	O.D.	THICKNESS	QTY
1/4	**704215**	.281	5/8	.050	50
5/16	**704216**	.337	3/4	.050	50
3/8	**704217**	25/64	7/8	.050	50
1/2	**704218**	9/16	1-1/4	5/64	25
5/8	**704219**	11/16	1-1/2	5/64	25
3/4	**704220**	13/16	1-3/4	7/64	10
7/8	**704221**	15/16	2	7/64	10
1	**704222**	1-1/16	2	1/8	10

18-8 STAINLESS STEEL COUNTERSUNK FINISHING WASHERS

Part No. 704100
200 pieces • 4 items
12037 plastic tray

704115 704116 704117 704118

Numbers in assortment

SIZE	PART NUMBER	QTY
6	**704115**	100
8	**704116**	100
10	**704117**	100
1/4	**704118**	100

A13

18-8 STAINLESS STEEL SPLIT LOCK WASHERS

Sizes: No. 6 through 1"
Part No. 501354
1790 pieces • 12 items
12061 steel tray

704102 704105 704108 704111
704103 704106 704109 704112
704104 704107 704110 704113

Numbers in assortment

SIZE	PART NUMBER	QTY
4	**704101**	100
6	**704102**	100
8	**704103**	100
10	**704104**	100
12	**704114**	100
1/4	**704105**	100
5/16	**704106**	100

SIZE	PART NUMBER	QTY
3/8	**704107**	100
7/16	**704109**	100
1/2	**704108**	100
5/8	**704110**	50
3/4	**704111**	50
7/8	**704112**	50
1	**704113**	50

316 STAINLESS STEEL SPLIT LOCK WASHERS

SIZE	PART NUMBER	QTY
1/4	**704225**	50
5/16	**704226**	50
3/8	**704227**	25
1/2	**704228**	25
5/8	**704229**	10
3/4	**704230**	10
7/8	**704231**	5
1	**704232**	5

18-8 STAINLESS STEEL FENDER WASHERS

Part No. 501609
331 pieces • 14 items
12050 steel tray

704150 704154 704158 704162
704151 704155 704159 704163
704152 704156 704160
704153 704157 704161

Numbers in assortment

- **Designed for applications requiring large bearing surfaces.**

BOLT SIZE	O.D.	TH.	PART NUMBER	QTY
3/16	3/4	.045	**704150**	50
3/16	1	.045	**704151**	50
1/4	1	.045	**704152**	50
1/4	1-1/4	.045	**704153**	50
1/4	1-1/2	.062	**704154**	50
1/4	2	.062	**704155**	25
5/16	1-1/4	.045	**704156**	50

BOLT SIZE	O.D.	TH.	PART NUMBER	QTY
5/16	1-1/2	.062	**704157**	50
5/16	2	.062	**704158**	25
3/8	1-1/4	.045	**704159**	50
3/8	1-1/2	.062	**704160**	25
3/8	2	.062	**704161**	25
1/2	1-1/2	.062	**704162**	25
1/2	2	.062	**704163**	25

18-8 STAINLESS STEEL THREADED RODS

- **USS coarse threads.**
- **3 foot lengths.**

SIZE	PART NUMBER	SIZE	PART NUMBER
6-32	**705126**	3/8-16	**705132**
8-32	**705127**	1/2-13	**705133**
10-24†	**705128**	5/8-11	**705134**
10-32*†	**705129**	3/4-10	**705135**
1/4-20	**705130**	7/8-9	**705136**
5/16-18	**705131**	1-8	**705137**

***SAE Fine Thread** **†3/16**

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STAINLESS STEEL

18-8 STAINLESS STEEL ROD COUPLING NUTS

SIZE	PART NUMBER	WRENCH SIZE	LENGTH	QTY	SIZE	PART NUMBER	WRENCH SIZE	LENGTH	QTY
6-32	**705725**	5/16	1/2	10	3/8-16	**705731**	1/2	1-1/8	10
8-32	**705726**	5/16	1/2	10	1/2-13	**705732**	5/8	1-1/4	5
10-24	**705727**	3/8	3/4	10	5/8-11	**705733**	7/8	1-3/4	5
10-32*	**705728**	3/8	3/4	10	3/4-10	**705734**	1	2	5
1/4-20	**705729**	3/8	7/8	10	7/8-9	**705735**	1-1/4	2-1/2	2
5/16-18	**705730**	7/16	1	10	1-8	**705736**	1-3/8	2-1/2	2

***SAE Fine Thread**

- **USS coarse threads*.**
- **Used to connect threaded rod together.**

HEX WASHER HEAD TEKS®

LENGTH	DIA. NO. 6 NO. 2 DRILL POINT PART NUMBER	GRIP MAX	QTY	DIA. NO. 8 NO. 2 DRILL POINT PART NUMBER	GRIP MAX	QTY	DIA. NO. 10 NO. 3 DRILL POINT PART NUMBER	GRIP MAX	QTY	DIA. NO. 12 NO. 3 DRILL POINT PART NUMBER	GRIP MAX	QTY	DIA. NO. 14 NO. 3 DRILL POINT PART NUMBER	GRIP MAX	QTY
3/8	**705350**	9/64	50	**705354**	11/64	50	**---**	--	-	**---**	--	-	**---**	--	-
1/2	**705351**	17/64	50	**705355**	1/4	50	**705360***	15/64	50	**---**	--	-	**---**	--	-
3/4	**705352**	25/64	50	**705356**	1/2	50	**705361**	13/32	50	**705365**	23/64	25	**705369**	19/64	25
1	**705353**	33/64	50	**705357**	3/4	50	**705362**	21/32	50	**705366**	5/16	25	**705370**	35/64	25
1-1/4	**---**	--	-	**705358**	1	50	**705363**	29/32	25	**705367**	53/64	25	**705371**	51/64	25
1-1/2	**---**	--	-	**705359**	1-1/4	50	**705364**	1-5/32	25	**705368**	1-5/64	25	**705372**	1-5/64	25
	1/4" Hex driver **Part No. 53510**			1/4" Hex driver **Part No. 53510**			5/16" Hex driver **Part No. 53511** *No. 2 drill point			5/16" Hex driver **Part No. 53511**			3/8" Hex driver **Part No. 53512**		

- **Drills and taps its own threads in materials up to 1/4" thick.**
- **Twist drill-like point.**
- **410 Stainless steel.**

Includes hex drivers
Part No. 501571
370 pieces • 26 items • 12017 steel tray

53510	**705350**	**705353**	**705356**	**705359**	**705362**	**705365**	**705368**	**705371**
53511	**705351**	**705354**	**705357**	**705360**	**705363**	**705366**	**705369**	**705372**
53512	**705352**	**705355**	**705358**	**705361**	**705364**	**705367**	**705370**	

Numbers in assortment

PAN PHILLIPS HEAD TEKS®

LENGTH	DIA. NO. 6 NO. 2 DRILL POINT PART NUMBER	GRIP MAX	QTY	DIA. NO. 8 NO. 2 DRILL POINT PART NUMBER	GRIP MAX	QTY	DIA. NO. 10 NO. 3 DRILL POINT PART NUMBER	GRIP MAX	QTY
3/8	**705375**	9/64	50	**705379**	9/64	50	**---**	--	-
1/2	**705376**	17/64	50	**705380**	1/4	50	**705385**	15/64	50
3/4	**705377**	25/64	50	**705381**	1/2	50	**705386**	13/32	50
1	**705378**	33/64	50	**705382**	3/4	50	**705387**	21/32	50
1-1/4	**---**	--	-	**705383**	1	50	**705388**	29/32	25
1-1/2	**---**	--	-	**705384**	1-1/4	50	**705389**	1-5/32	25
	#2 driver **Part No. 114317**			#2 driver **Part No. 114317**			#2 driver **Part No. 114317**		

Includes phillips power bits
Part No. 501572
241 pieces • 16 items
12050 steel tray

114317	**705378**	**705382**	**705386**
705375	**705379**	**705383**	**705387**
705376	**705380**	**705384**	**705388**
705377	**705381**	**705385**	**705389**

Numbers in assortment

Part No. 705303
120 pieces • 6 items
12028 plastic tray

705376	**705382**	**705387**
705380	**705384**	**705389**

Numbers in assortment

18-8 STAINLESS STEEL FLAT HEAD SLOTTED WOOD SCREWS

LENGTH	DIA. NO. 4 PART NUMBER	QTY	DIA. NO. 6 PART NUMBER	QTY	DIA. NO. 8 PART NUMBER	QTY	DIA. NO. 10 PART NUMBER	QTY	DIA. NO. 12 PART NUMBER	QTY	DIA. NO. 14 PART NUMBER	QTY
1/2	**705304**	100	**705307**	100	**705311**	-	**---**	-	**---**	-	**---**	-
3/4	**705305**	100	**705308**	100	**705312**	100	**705316**	100	**705320**	50	**---**	-
1	**705306**	100	**705309**	100	**705313**	100	**705317**	100	**705321**	50	**705324**	50
1-1/2	**---**	-	**705310**	100	**705314**	100	**705318**	100	**705322**	50	**705325**	50
2	**---**	-	**---**	-	**705315**	100	**705319**	50	**705323**	50	**705326**	50

Sizes: No. 4 x 1/2" through No. 14 x 2"
Part No. 501366
825 pieces • 23 items
12017 steel tray

705304	**705310**	**705316**	**705322**
705305	**705311**	**705317**	**705323**
705306	**705312**	**705318**	**705324**
705307	**705313**	**705319**	**705325**
705308	**705314**	**705320**	**705326**
705309	**705315**	**705321**	

Numbers in assortment

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STAINLESS STEEL

18-8 STAINLESS STEEL FLAT HEAD PHILLIPS WOOD SCREWS

Sizes: No. 4 x 1/2" through No. 12 x 2"
Part No. 501574
426 pieces • 19 items
12071 steel tray

705401	705406	705411	705416
705402	705407	705412	705417
705403	705408	705413	705418
705404	705409	705414	705419
705405	705410	705415	

Numbers in assortment

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	705401	100	705404	100	705408	100	---	-	---	-
3/4	705402	100	705405	100	705409	50	705413	50	---	-
1	705403	100	705406	100	705410	50	705414	50	705417	50
1-1/2	---	-	705407	100	705411	50	705415	50	705418	50
2	---	-	---	-	705412	50	705416	50	705419	50

18-8 PAN HEAD SLOTTED SHEET METAL SCREWS

Sizes: No. 6 x 1/2" through No. 14 x 2"
Part No. 501365
1110 pieces • 19 items
12071 steel tray

705150	705155	705160	705165
705151	705156	705161	705166
705152	705157	705162	705167
705153	705158	705163	705168
705154	705159	705164	

Numbers in assortment

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	705270	100	705276	100	---	-	---	-	---	-	---	-
3/8	705271	100	705277	100	705281	100	705284	100	---	-	---	-
1/2	705272	100	705150	100	705153	100	705157	100	705287	100	705293	50
5/8	705273	100	705278	100	705154	100	705158	100	705288	100	705294	50
3/4	705274	100	705151	100	705155	100	705159	100	705289	100	705295	50
1	705275	100	705152	100	705156	100	705160	100	705290	100	705296	50
1-1/4	---	-	705279	100	705282	100	705285	100	705291	100	705297	50
1-1/2	---	-	705280	100	705161	100	705163	100	705165	100	705167	50
1-3/4	---	-	---	-	705283	100	705286	100	705292	50	705298	50
2	---	-	---	-	705162	100	705164	50	705166	50	705168	50
2-1/2	---	-	---	-	---	-	---	-	705267	50	705299	50
3	---	-	---	-	---	-	---	-	705268	50	705269	50

18-8 PAN HEAD PHILLIPS SHEET METAL SCREWS

Sizes: No. 6 x 1/2" through No. 14 x 2"
Part No. 501362
1115 pieces • 20 items
12071 steel tray

705401	705406	705411	705416
705402	705407	705412	705417
705403	705408	705413	705418
705404	705409	705414	705419
705405	705410	705415	

Numbers in assortment

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	705800	100	705806	100	---	-	---	-	---	-	---	-
3/8	705801	100	705807	100	705811	100	705815	100	---	-	---	-
1/2	705802	100	705216	100	705219	100	705224	100	705819	100	705823	50
5/8	705803	100	705808	100	705812	100	705816	100	705820	100	705824	50
3/4	705804	100	705217	100	705220	100	705225	100	705229	100	705825	50
1	705805	100	705218	100	705221	100	705226	100	705230	100	705233	50
1-1/4	---	-	705809	100	705813	100	705817	100	705821	100	705826	50
1-1/2	---	-	705810	100	705222	100	705227	100	705231	50	705234	50
1-3/4	---	-	---	-	705814	100	705818	100	705822	50	705827	50
2	---	-	---	-	705223	50	705228	100	705232	50	705235	50
2-1/2	---	-	---	-	---	-	---	-	705830	50	705828	50
3	---	-	---	-	---	-	---	-	705831	50	705829	50

18-8 OVAL HEAD SLOTTED SHEET METAL SCREWS

Sizes: No. 6 x 1/2" through No. 14 x 2"
Part No. 501517
1030 pieces • 19 items
12071 steel tray

705852	705859	705867	705876
705853	705861	705869	705880
705854	705862	705871	705882
705856	705864	705872	705884
705857	705865	705874	

Numbers in assortment

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	705850	100	705854	100	705862	100	705870	100	---	-
5/8	705851	100	705855	100	705863	100	---	-	---	-
3/4	705852	100	705856	100	705864	100	705871	100	705879	50
1	705853	100	705857	100	705865	100	705872	100	705880	50
1-1/4	---	-	705858	100	705866	100	705873	100	705881	50
1-1/2	---	-	705859	100	705867	100	705874	50	705882	50
1-3/4	---	-	705860	100	705868	100	705875	50	705883	50
2	---	-	705861	50	705869	50	705876	50	705884	50
2-1/2	---	-	---	-	---	-	705877	50	705885	50
3	---	-	---	-	---	-	705878	50	705886	50

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STAINLESS STEEL

18-8 OVAL HEAD PHILLIPS SHEET METAL SCREWS

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	705330	100	705203	100	705206	100	705338	100	---	-
5/8	705331	100	705332	100	705335	100	705339	100	---	-
3/4	705201	100	705204	100	705207	100	705209	100	705195	50
1	705202	100	705205	100	705208	100	705210	100	705211	50
1-1/4	---	-	705333	100	705336	100	705340	100	705196	50
1-1/2	---	-	705212	100	705214	100	705191	50	705193	50
1-3/4	---	-	705334	100	705337	100	705341	50	705197	50
2	---	-	705213	50	705215	50	705192	50	705194	50
2-1/2	---	-	---	-	---	-	705342	50	705198	50
3	---	-	---	-	---	-	705343	50	705199	50

Sizes: No. 6 x 1/2" through No. 14 x 2"
Part No. 501363
1110 pieces • 19 items
12071 steel tray

705191	705202	705207	705212
705192	705203	705208	705213
705193	705204	705209	705214
705194	705205	705210	705215
705201	705206	705211	

Numbers in assortment

A13

18-8 FLAT HEAD SLOTTED SHEET METAL SCREWS

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	706650	100	705175	100	705178	100	705182	100	---	-	---	-
5/8	706651	100	706654	100	706655	100	706657	100	---	-	---	-
3/4	706652	100	705176	100	705179	100	705183	100	705173	100	---	-
1	706653	100	705177	100	705180	100	705184	100	705174	100	705188	50
1-1/4	---	-	---	-	705181	100	705185	100	706659	100	706663	50
1-1/2	---	-	---	-	705169	100	705171	100	705186	100	705189	50
1-3/4	---	-	---	-	706656	100	706658	100	706660	50	706664	50
2	---	-	---	-	705170	100	705172	50	705187	50	705190	50
2-1/2	---	-	---	-	---	-	---	-	706661	50	706665	50
3	---	-	---	-	---	-	---	-	706662	50	706666	50

Sizes: No. 6 x 1/2" through No. 14 x 2"
Part No. 501364
1115 pieces • 20 items
12071 steel tray

705169	705174	705180	705186
705170	705175	705181	705187
705171	705176	705182	705188
705172	705177	705183	705188
705173	705178	705184	705190

Numbers in assortment

18-8 FLAT HEAD PHILLIPS SHEET METAL SCREWS

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	705675	100	705650	100	705653	100	705660	100	---	-	---	-
5/8	705676	100	705679	100	705654	100	705661	100	---	-	---	-
3/4	705677	100	705651	100	705655	100	705662	100	705667	100	---	-
1	705678	100	705652	100	705656	100	705663	100	705668	100	705671	50
1-1/4	---	-	---	-	705657	100	705664	100	705682	100	705686	50
1-1/2	---	-	---	-	705658	100	705665	100	705669	50	705672	50
1-3/4	---	-	---	-	705680	100	705681	100	705683	50	705687	50
2	---	-	---	-	705659	50	705666	50	705670	50	705673	50
2-1/2	---	-	---	-	---	-	---	-	705684	50	705688	50
3	---	-	---	-	---	-	---	-	705685	50	705689	50

Sizes: No. 6 x 1/2" through No. 14 x 2"
Part No. 501457
1115 pieces • 20 items
12071 steel tray

705650	705656	705662	705668
705651	705657	705663	705669
705652	705658	705665	705670
705653	705659	705666	705671
705655	705660	705667	705673

Numbers in assortment

18-8 TRUSS HEAD PHILLIPS SHEET METAL SCREWS

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	705925	100	---	-	---	-	---	-	---	-
3/8	705926	100	705930	100	---	-	---	-	---	-
1/2	705927	100	705931	100	705937	100	705943	100	---	-
5/8	---	-	705932	100	705938	100	---	-	---	-
3/4	705928	100	705933	100	705939	100	705944	100	---	-
1	705929	100	705934	100	705940	100	705945	100	705948	50
1-1/4	---	-	705935	100	705941	100	705946	100	705949	50
1-1/2	---	-	705936	100	705942	100	705947	50	705950	50
2	---	-	---	-	---	-	---	-	705951	50

Sizes: No. 6 x 1/2" through No. 14 x 2"
Part No. 501573
1110 pieces • 19 items
12071 steel tray

705927	705934	705942	705948
705928	705936	705943	705949
705929	705937	705944	705950
705931	705939	705945	705951
705933	705940	705947	

Numbers in assortment

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STAINLESS STEEL

18-8 HEX SLOTTED WASHER HEAD SHEET METAL SCREWS

Sizes: No. 6 x 1/2" through No. 14 x 1-1/2"
Part No. 501716
722 pieces • 19 items
12071 steel tray

705960	705965	705972	705981
705961	705966	705974	705982
705962	705968	705975	705983
705963	705969	705976	705984
705964	705970	705978	

Numbers in assortment

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	705960	100	705963	100	705968	100	705974	50	705980	50
3/4	705961	100	705964	100	705969	100	705975	50	705981	50
1	705962	100	705965	100	705970	50	705976	50	705982	50
1-1/4	---	-	705966	100	705971	50	705977	50	705983	50
1-1/2	---	-	705967	100	705972	50	705978	50	705984	25
2	---	-	---	-	705973	50	705979	50	705985	25

18-8 TRUSS HEAD SLOTTED MACHINE SCREWS

Sizes: No. 4-40 x 1/4" through 1/4-20 x 2"
Includes hex nuts
Part No. 501714
2950 pcs • 24 items
12017 steel tray

703125	705752	705763	705773
703126	705753	705764	705786
703127	705756	705766	705787
703128	705757	705769	705788
703130	705758	705770	705790
705750	705762	705771	705791

Numbers in assortment

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	705750	100	705753	100	705759	100	705767	100	705777	100	---	-
5/16	---	-	705754	100	705760	100	---	-	---	-	---	-
3/8	705751	100	705755	100	705761	100	705768	100	705778	100	705785	50
1/2	705752	100	705756	100	705762	100	705769	100	705779	100	705786	50
3/4	---	-	705757	100	705763	100	705770	100	705780	100	705787	50
1	---	-	705758	100	705764	100	705771	50	705781	50	705788	50
1-1/4	---	-	---	-	705765	100	705772	50	705782	50	705789	50
1-1/2	---	-	---	-	705766	100	705773	50	705783	50	705790	25
2	---	-	---	-	---	-	705774	50	705784	50	705791	25
2-1/2	---	-	---	-	---	-	705775	25	---	-	705792	25
3	---	-	---	-	---	-	705776	25	---	-	705793	25

18-8 TRUSS HEAD PHILLIPS MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	705450	100	705453	100	705459	100	705467	100	705477	100	---	-
5/16	---	-	705454	100	705460	100	---	-	---	-	---	-
3/8	705451	100	705455	100	705461	100	705468	100	705478	100	705485	50
1/2	705452	100	705456	100	705462	100	705469	100	705479	100	705486	50
3/4	---	-	705457	100	705463	100	705470	100	705480	100	705487	50
1	---	-	705458	100	705464	100	705471	50	705481	50	705488	50
1-1/4	---	-	---	-	705465	100	705472	50	705482	50	705489	50
1-1/2	---	-	---	-	705466	100	705473	50	705483	50	705490	25
2	---	-	---	-	---	-	705474	50	705484	50	705491	25
2-1/2	---	-	---	-	---	-	705475	25	---	-	705492	25
3	---	-	---	-	---	-	705476	25	---	-	705493	25

18-8 PAN HEAD SLOTTED MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	704300	100	704306	100	704314	100	704324	100	704334	100	---	-
3/8	704301	100	704307	100	704315	100	704325	100	704335	100	704344	100
1/2	704302	100	704308	100	704316	100	704326	100	704336	100	704345	100
5/8	704303	100	704309	100	704317	100	704327	100	704337	100	704346	100
3/4	704304	100	704310	100	704318	100	704328	100	704338	100	704347	100
1	704305	100	704311	100	704319	100	704329	100	704339	100	704348	100
1-1/4	---	-	704312	100	704320	100	704330	100	704340	100	704349	100
1-1/2	---	-	704313	100	704321	100	704331	100	704341	100	704350	50
1-3/4	---	-	---	-	704322	100	704332	100	704342	100	704351	50
2	---	-	---	-	704323	100	704333	100	704343	100	704352	50

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STAINLESS STEEL

18-8 PAN HEAD PHILLIPS MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	705550	100	705556	100	705564	100	---	-	---	-	---	-
5/16	---	-	---	-	---	-	704239	100	704243	100	---	-
3/8	705551	100	705557	100	705565	100	705572	100	705580	100	705589	100
1/2	705552	100	705558	100	705566	100	705573	100	705581	100	705590	100
5/8	705553	100	705559	100	705567	100	705574	100	705582	100	705591	100
3/4	705554	100	705560	100	705568	100	705575	100	705583	100	705592	100
7/8	---	-	---	-	---	-	---	-	705584	100	705593	100
1	705555	100	705561	100	705569	100	705576	100	705585	100	705594	50
1-1/4	---	-	705562	100	705570	100	705577	100	705586	100	705595	50
1-1/2	---	-	705563	100	705571	100	705578	100	705587	100	705596	50
1-3/4	---	-	---	-	704237	100	704240	100	704244	100	704247	50
2	---	-	---	-	704238	100	705579	50	705588	50	705597	50
2-1/2	---	-	---	-	---	-	704241	50	704245	50	704248	50
3	---	-	---	-	---	-	704242	50	704246	50	704249	50

Sizes: No. 4-40 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501358
3000 pieces • 24 items
12017 steel tray

703125	705555	705571	705594
703126	705558	705573	705596
703127	705560	705575	705597
703128	705561	705576	
703130	705566	705578	
705552	705568	705590	
705554	705569	705592	

Numbers in assortment

A13

18-8 OVAL HEAD SLOTTED MACHINE SCREWS

	DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	704250	100	704256	100	---	-	---	-	---	-
3/8	704251	100	704257	100	704264	100	704272	100	---	-
1/2	704252	100	704258	100	704265	100	704273	100	704280	100
5/8	704253	100	704259	100	704266	100	704274	100	704281	100
3/4	704254	100	704260	100	704267	100	704275	100	704282	100
1	704255	100	704261	100	704268	100	704276	100	704283	100
1-1/4	---	-	704262	100	704269	100	704277	100	704284	50
1-1/2	---	-	704263	100	704270	100	704278	100	704285	50
2	---	-	---	-	704271	100	704279	100	704286	50

Sizes: No. 6-32 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501519
2395 pieces • 20 items
12071 steel tray

703126	704254	704263	704280
703127	704255	704265	704282
703128	704258	704267	704283
703130	704260	704268	704285
704252	704261	704270	704286

Numbers in assortment

18-8 OVAL HEAD PHILLIPS MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	705600	100	705606	100	705614	100	---	-	---	-	---	-
3/8	705601	100	705607	100	705615	100	705622	100	705630	100	705639	100
1/2	705602	100	705608	100	705616	100	705623	100	705631	100	705640	100
5/8	705603	100	705609	100	705617	100	705624	100	705632	100	705641	100
3/4	705604	100	705610	100	705618	100	705625	100	705633	100	705642	100
7/8	---	-	---	-	---	-	---	-	705634	100	705643	100
1	705605	100	705611	100	705619	100	705626	100	705635	100	705644	50
1-1/4	---	-	705612	100	705620	100	705627	100	705636	100	705645	50
1-1/2	---	-	705613	100	705621	100	705628	100	705637	100	705646	50
1-3/4	---	-	---	-	---	-	705141	100	705144	100	705147	50
2	---	-	---	-	---	-	705629	50	705638	50	705647	50
2-1/2	---	-	---	-	---	-	705142	50	705145	50	705148	50
3	---	-	---	-	---	-	705143	50	705146	50	705149	50

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STAINLESS STEEL

18-8 FLAT HEAD SLOTTED MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	705500	100	705506	100	705514	100	704372	100	704376	100	---	-	---	-	---	-
3/8	705501	100	705507	100	705515	100	705522	100	705530	100	705538	100	---	-	---	-
1/2	705502	100	705508	100	705516	100	705523	100	705531	100	705539	100	---	-	---	-
5/8	705503	100	705509	100	705517	100	705524	100	705532	100	---	-	---	-	---	-
3/4	705504	100	705510	100	705518	100	705525	100	705533	100	705540	100	704383	25	704391	25
1	705505	100	705511	100	705519	100	705526	100	705534	100	705541	100	704384	25	704392	25
1-1/4	---	-	705512	100	705520	100	705527	100	705535	100	705542	50	704385	25	704393	25
1-1/2	---	-	705513	100	705521	100	705528	100	705536	100	705543	50	704386	25	704394	25
1-3/4	---	-	---	-	704370	100	704373	100	704377	100	704380	50	704387	25	704395	25
2	---	-	---	-	704371	100	705529	100	705537	100	705544	50	704388	25	704396	25
2-1/2	---	-	---	-	---	-	704374	50	704378	50	704381	50	704389	25	704397	25
3	---	-	---	-	---	-	704375	50	704379	50	704382	50	704390	25	704398	25

Sizes: No. 4-40 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501360
3000 pieces • 24 items • 12017 steel tray

703125	703128	705504	705510	705518	705523	705528	705541
703126	703130	705505	705511	705519	705525	705539	705543
703127	705502	705508	705516	705521	705526	705540	705544

Numbers in assortment

18-8 FLAT HEAD PHILLIPS MACHINE SCREWS

Sizes: No. 4-40 x 1/4" through 1/4-20 x 2"
Includes hex nuts
Part No. 501456
3000 pieces • 24 items
12017 steel tray

703125	706205	706221	706244
703126	706208	706223	706246
703127	706210	706225	706247
703128	706211	706226	
703130	706216	706228	
706200	706218	706240	
706204	706219	706242	

Numbers in assortment

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	706200	100	706206	100	706214	100	---	-	---	-	---	-
3/8	706201	100	706207	100	706215	100	706222	100	706230	100	706239	100
1/2	706202	100	706208	100	706216	100	706223	100	706231	100	706240	100
5/8	706203	100	706209	100	706217	100	706224	100	706232	100	706241	100
3/4	706204	100	706210	100	706218	100	706225	100	706233	100	706242	100
7/8	---	-	---	-	---	-	---	-	706234	100	706243	100
1	706205	100	706211	100	706219	100	706226	100	706235	100	706244	50
1-1/4	---	-	706212	100	706220	100	706227	100	706236	100	706245	50
1-1/2	---	-	706213	100	706221	100	706228	100	706237	100	706246	50
2	---	-	---	-	---	-	706229	50	706238	50	706247	50

18-8 ROUND HEAD SLOTTED MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20		DIA. 5/16-18	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	704400	100	704403	100	704408	100	704414	100	704422	100	---	-	---	-
3/8	704401	100	704404	100	704409	100	704415	100	704423	100	704430	100	---	-
1/2	705101	100	705104	100	705107	100	705115	100	704424	100	705119	100	---	-
5/8	704402	100	704405	100	704410	100	704416	100	704425	100	704431	100	---	-
3/4	705102	100	705105	100	705108	100	705116	100	705111	100	705120	100	704436	25
1	705103	100	705106	100	705109	100	705117	100	705112	100	705121	100	704437	25
1-1/4	---	-	704406	100	704411	100	704417	100	704426	100	704432	50	---	-
1-1/2	---	-	704407	100	705110	100	705118	100	705113	100	705122	50	704438	25
1-3/4	---	-	---	-	704412	100	704418	100	704427	100	704433	50	---	-
2	---	-	---	-	704413	100	704419	100	705114	100	705123	50	704439	25
2-1/2	---	-	---	-	---	-	704420	50	704428	50	704434	50	704440	25
3	---	-	---	-	---	-	704421	50	704429	50	704435	50	704441	25

Sizes: No. 4-40 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501361
3000 pieces • 24 items • 12017 steel tray

703125	703128	705102	705105	705108	705115	705118	705121
703126	703130	705103	705106	705109	705116	705119	705122
703127	705101	705104	705107	705110	705117	705120	705123

Numbers in assortment

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STAINLESS STEEL

18-8 TRIMMED HEAD UNSLOTTED HEX MACHINE SCREWS

LENGTH	DIA. NO. 4-40 PART NUMBER	QTY	DIA. NO. 6-32 PART NUMBER	QTY	DIA. NO. 8-32 PART NUMBER	QTY	DIA. NO. 10-24 PART NUMBER	QTY	DIA. NO. 10-32 PART NUMBER	QTY
1/4	706150	100	706155	100	706162	100	---	-	---	-
5/16	706151	100	706156	100	706163	100	---	-	---	-
3/8	706152	100	706157	100	706164	100	706171	100	706179	100
1/2	706153	100	706158	100	706165	100	706172	100	706180	100
5/8	---	-	706159	100	706166	100	706173	100	706181	100
3/4	706154	100	706160	100	706167	100	706174	100	706182	100
1	---	-	706161	100	706168	100	706175	50	706183	50
1-1/4	---	-	---	-	706169	50	706176	50	706184	50
1-1/2	---	-	---	-	706170	50	706177	50	706185	50
2	---	-	---	-	---	-	706178	50	706186	50

Sizes: No. 4-40 x 1/2" through No. 10-32 x 2"
Includes hex nuts
Part No. 501520
1180 pieces • 22 items
12017 steel tray

703125	706158	706174	706186
703126	706160	706175	
703127	706161	706177	
703128	706165	706178	
703129	706167	706182	
706153	706168	706183	
706154	706170	706185	

Numbers in assortment

THUMB SCREWS

Perfect for applications that require hand tightening.

LENGTH	DIA. NO. 8-32 PART NUMBER	QTY	DIA. NO. 10-24 PART NUMBER	QTY	DIA. NO. 10-32 PART NUMBER	QTY	DIA. 1/4-20 PART NUMBER	QTY	DIA. 5/16-18 PART NUMBER	QTY	DIA. 3/8-16 PART NUMBER	QTY
1/2	705425	10	705427	10	705430	10	705433	10	705438	5	---	-
3/4	705426	10	705428	10	705431	10	705434	10	705439	5	705443	5
1	---	-	705429	10	705432	10	705435	10	705440	5	705444	5
1-1/4	---	-	---	-	---	-	705436	10	705441	5	705445	5
1-1/2	---	-	---	-	---	-	705437	10	705442	5	705446	5
2	---	-	---	-	---	-	---	-	---	-	705447	5

- **High quality 18-8 stainless steel.**
- **Precision rolled threads.**
- **Flattened head for easy grip.**

300 SERIES STAINLESS STEEL (18-8) CLEVIS PINS

Landscape, scaffolding, construction equipment, automotive, RV, truck and fleet, maintenance, agriculture and mining.

LENGTH	DIA. 3/16 3/32 hole size PART NUMBER	QTY	DIA. 1/4 3/32 hole size PART NUMBER	QTY	DIA. 5/16 5/32 hole size PART NUMBER	QTY	DIA. 3/8 5/32 hole size PART NUMBER	QTY	DIA. 1/2 5/32 hole size PART NUMBER	QTY
1/2	706301	5	706308	5	706315	5	---	-	---	-
3/4	706302	5	706309	5	706316	5	706322	5	---	-
1	706303	5	706310	5	706317	5	706323	5	706329	5
1-1/4	706304	5	706311	5	706318	5	706324	5	---	-
1-1/2	706305	5	706312	5	706319	5	706325	5	706330	5
1-3/4	706306	5	706313	5	706320	5	706326	5	---	-
2	706307	5	706314	5	706321	5	706327	5	706331	5
2-1/2	---	-	---	-	---	-	706328	5	706332	5
3	---	-	---	-	---	-	---	-	706333	5

- **Meets SAE specifications.**

18-8 STAINLESS STEEL U-BOLTS

For supporting pipes, supply lines, posts, logs, etc.

"A" DIAMETER & THREAD	PART NUMBER	QTY	"B" OVERALL LENGTH	"C" WIDTH BET. LEGS	"D" THREAD LENGTH	FITS PIPE SIZE
1/4-20	704190	2	2-3/4	3/4	2	3/8
1/4-20	704191	2	1-3/4	1	1	1/2
1/4-20	704192	2	2-1/2	1-1/8	1-1/2	3/4
1/4-20	704193	2	2-3/4	1-3/8	1-3/4	1
5/16-18	704194	2	2-1/2	1-3/8	1-1/4	1
5/16-18	704195	2	4-1/4	1-3/4	2-1/2	1-1/4
5/16-18	704196	2	4-11/16	2	2-3/4	1-1/2
5/16-18	704197	2	5-3/16	2-1/2	3	2

- **Complete with flat strap and (2) hex nuts.**
- **Coarse thread.**
- **Ideal for corrosive and caustic environments.**

302 SERIES STAINLESS STEEL HAIR PIN COTTERS

Used to secure clevis pins, headless pins, hitch pins, etc.

PART NUMBER	QTY	"C" WIRE DIA.	"A" OVERALL LENGTH	"B" EYE I.D.	USE ON SHAFT SIZE
706145	25	.042	15/16	1/4	3/16-1/4
706146	25	.0585	1-1/8	1/4	1/4-5/16
706147	25	.0725	1-7/16	5/16	5/16-3/8
706148	10	.0915	1-7/8	11/16	3/8-7/16
706149	10	.1480	2-11/16	25/32	1/2-3/4

- **Insert straight side through holes, bent side provides spring retention.**

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STAINLESS STEEL and BRASS

18-8 STAINLESS COTTER PINS

Sizes: 3/64" x 3/16" dia. through 2-1/2" lengths
Part No. 501367
1250 pieces • 20 items
12071 steel tray

706101	706109	706116	706125
706102	706110	706120	706128
706103	706112	706121	706130
706105	706114	706122	706132
706106	706115	706124	706135

Numbers in assortment

● Extended prong.

	DIA. 3/64		DIA. 1/16		DIA. 3/32		DIA. 1/8		DIA. 5/32		DIA. 3/16	
LENGTH	PPART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	---	-	706104	100	706110	100	706118	100	---	-	---	-
3/4	706101	100	706105	100	706111	100	706119	100	706127	50	---	-
1	706102	100	706106	-	706112	100	706120	100	706128	50	706135	25
1-1/4	---	-	---	-	706113	100	706121	50	706129	50	---	-
1-1/2	706103	100	706107	100	706114	100	706122	50	706130	50	706136	25
1-3/4	---	-	706108	100	706115	100	706123	50	706131	50	---	-
2	---	-	706109	100	706116	100	706124	50	706132	50	706137	25
2-1/2	---	-	---	-	706117	100	706125	50	706133	25	706138	25
3	---	-	---	-	---	-	706126	50	706134	25	706139	25
3-1/2	---	-	---	-	---	-	---	-	---	-	706140	25
4	---	-	---	-	---	-	---	-	---	-	706141	25

BRASS FLAT HEAD SLOTTED WOOD SCREWS

	DIA. NO. 2		DIA. NO. 3		DIA. NO. 4		DIA. NO. 5		DIA. NO. 6		DIA. NO. 7		DIA. NO. 8		DIA. NO. 9	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	53411	100	55103	-	---	-	---	-	---	-	---	-	---	-	---	-
3/8	55100	100	55104	100	55108	100	55110	100	55115	100	---	-	---	-	---	-
1/2	53413	100	55105	100	53416	100	55111	100	53425	100	---	-	53437	100	---	-
5/8	55101	100	55106	100	55109	100	55112	100	55116	100	55118	100	55123	100	---	-
3/4	55102	100	55107	100	53419	100	55113	100	53428	100	55119	100	53439	100	55126	100
1	---	-	---	-	53422	100	55114	100	53431	100	55120	100	53442	100	55127	100
1-1/4	---	-	---	-	---	-	---	-	55117	100	55121	100	55124	100	55128	100
1-1/2	---	-	---	-	---	-	---	-	53434	100	55122	100	53445	50	55129	50
1-3/4	---	-	---	-	---	-	---	-	---	-	---	-	55125	50	55130	50
2	---	-	---	-	---	-	---	-	---	-	---	-	53448	50	55131	50
2-1/2	---	-	---	-	---	-	---	-	---	-	---	-	---	-	---	-
3	---	-	---	-	---	-	---	-	---	-	---	-	---	-	---	-

	DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/4	53451	100	55136	100	---	-
1	53454	100	53463	50	55141	50
1-1/4	55132	50	55137	50	55142	50
1-1/2	53457	50	53465	50	55143	50
1-3/4	55133	50	55138	50	55144	50
2	53460	50	53467	50	55145	25
2-1/2	55134	25	55139	25	55146	25
3	55135	25	55140	25	55147	25

BRASS OVAL HEAD SLOTTED WOOD SCREWS

	DIA. NO. 2		DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	53469	100	---	-	---	-	---	-	---	-	---	-	---	-
3/8	53470	100	53472	100	53474	100	---	-	---	-	---	-	---	-
1/2	53471	100	53418	100	53427	100	53477	100	---	-	---	-	---	-
5/8	---	-	53473	100	53475	100	53478	100	---	-	---	-	---	-
3/4	---	-	53421	100	53430	100	53441	100	53453	100	---	-	---	-
1	---	-	53424	100	53433	100	53444	100	53456	100	53484	50	53491	50
1-1/4	---	-	---	-	53476	100	53479	50	53481	50	53485	50	53492	50
1-1/2	---	-	---	-	53436	100	53447	50	53459	50	53486	50	53493	50
1-3/4	---	-	---	-	---	-	53480	50	53482	50	53487	50	53494	50
2	---	-	---	-	---	-	53450	50	53462	50	53488	50	53495	25
2-1/2	---	-	---	-	---	-	---	-	53483	25	53489	25	53496	25
3	---	-	---	-	---	-	---	-	---	-	53490	25	53497	25

Sizes: No. 4 x 1/2" through No. 14 x 2"
Part No. 501523
600 pieces • 22 items • 12017 steel tray

53418	53427	53436	53447	53456	53477	53488	53495
53421	53430	53441	53450	53459	53484	53491	
53424	53433	53444	53453	53462	53486	53493	

Numbers in assortment

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BRASS

BRASS ROUND HEAD SLOTTED WOOD SCREWS

	DIA. NO. 2		DIA. NO. 3		DIA. NO. 4		DIA. NO. 5		DIA. NO. 6		DIA. NO. 7		DIA. NO. 8		DIA. NO. 9	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	53412	100	55153	-	53415	100	---	-	---	-	---	-	---	-	---	-
3/8	55150	100	55154	100	55158	100	55160	100	55165	100	---	-	---	-	---	-
1/2	53414	100	55155	100	53417	100	55161	100	53426	100	---	-	53438	100	---	-
5/8	55151	100	55156	100	55159	100	55162	100	55166	100	55168	100	55173	100	---	-
3/4	55152	100	55157	100	53420	100	55163	100	53429	100	55169	100	53440	100	55176	100
1	---	-	---	-	53423	100	55164	100	53432	100	55170	100	53443	100	55177	100
1-1/4	---	-	---	-	---	-	---	-	55167	100	55171	100	55174	100	55178	100
1-1/2	---	-	---	-	---	-	---	-	53435	100	55172	100	53446	50	55179	50
1-3/4	---	-	---	-	---	-	---	-	---	-	---	-	55175	50	55180	50
2	---	-	---	-	---	-	---	-	---	-	---	-	53449	50	55181	50
2-1/2	---	-	---	-	---	-	---	-	---	-	---	-	---	-	---	-
3	---	-	---	-	---	-	---	-	---	-	---	-	---	-	---	-

	DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/4	53452	100	55186	100	---	-
1	53455	100	53464	50	55191	50
1-1/4	55182	50	55187	50	55192	50
1-1/2	53458	50	53466	50	55193	50
1-3/4	55183	50	55188	50	55194	50
2	53461	50	53468	50	55195	25
2-1/2	55184	25	55189	25	55196	25
3	55185	25	55190	25	55197	25

BRASS OVAL HEAD SLOTTED MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. NO. 12-24		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	405550	100	405555	100	405562	100	405570	100	---	-	---	-	---	-
3/8	405551	100	405556	100	405563	100	405571	100	405579	100	---	-	---	-
1/2	405552	100	405557	100	405564	100	405572	100	405580	100	405586	50	405591	50
3/4	405553	100	405558	100	405565	100	405573	100	405581	100	405587	50	405592	50
1	405554	100	405559	100	405566	100	405574	100	405582	100	405588	50	405593	50
1-1/4	---	-	405560	100	405567	100	405575	50	405583	50	---	-	405594	25
1-1/2	---	-	405561	100	405568	50	405576	50	405584	50	405589	50	405595	25
2	---	-	---	-	405569	50	405577	50	405585	50	405590	50	405596	25
2-1/2	---	-	---	-	---	-	---	-	---	-	---	-	405597	25

Sizes: No. 6-32 x 3/8" through 1/4-20 x 2"
Part No. 706003
165 pieces • 12 items • 12027 plastic tray

405556	405559	405565	405572	405576	405595
405557	405564	405566	405574	405593	405596

Numbers in assortment

BRASS FLAT HEAD SLOTTED MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. NO. 12-24		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	405500	100	405505	100	405507	100	405512	100	405514	100	---	-	---	-
3/8	405501	100	405160	100	405508	100	405513	100	405515	100	---	-	---	-
1/2	405502	100	405161	100	405165	100	405168	100	405174	100	405516	50	405521	50
3/4	405503	100	405162	100	405166	100	405169	100	405175	100	405517	50	405180	50
1	405504	100	405163	100	405167	100	405170	100	405176	100	405518	50	405181	50
1-1/4	---	-	405164	100	405509	100	405171	50	405177	50	---	-	405182	25
1-1/2	---	-	405506	100	405510	100	405172	50	405178	50	405519	50	405183	25
2	---	-	---	-	405511	50	405173	50	405179	50	405520	25	405184	25
2-1/2	---	-	---	-	---	-	---	-	---	-	---	-	405185	25

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BRASS

BRASS ROUND HEAD SLOTTED MACHINE SCREWS

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. NO. 12-24		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/16	**405152**	100	**405154**	100	---	-	---	-	---	-	---	-	---	-
1/4	**405106**	100	**405110**	100	**405116**	100	**405124**	100	**405132**	100	---	-	---	-
3/8	**405153**	100	**405111**	100	**405117**	100	**405125**	100	**405133**	100	---	-	---	-
1/2	**405107**	100	**405112**	100	**405118**	100	**405126**	100	**405134**	100	**405140**	50	**405145**	50
5/8	---	-	---	-	**405156**	100	**405157**	100	**405158**	100	---	-	---	-
3/4	**405108**	100	**405113**	100	**405119**	100	**405127**	100	**405135**	100	**405141**	50	**405146**	50
1	**405109**	100	**405114**	100	**405120**	100	**405128**	100	**405136**	100	**405142**	50	**405147**	50
1-1/4	---	-	**405155**	100	**405121**	100	**405129**	50	**405137**	50	---	-	**405148**	25
1-1/2	---	-	**405115**	100	**405122**	50	**405130**	50	**405138**	50	**405143**	50	**405149**	25
2	---	-	---	-	**405123**	50	**405131**	50	**405139**	50	**405144**	25	**405150**	25
2-1/2	---	-	---	-	---	-	---	-	---	-	---	-	**405151**	25

Sizes: No. 4-40 x 1/2" through 1/4-20 x 2"
Part No. 405101
165 pieces • 12 items • 12027 plastic tray

405107	**405114**	**405120**	**405126**	**405130**	**405149**
405112	**405118**	**405122**	**405128**	**405147**	**405150**

Numbers in assortment

A13

BRASS FLAT & ROUND HEAD SLOTTED MACHINE SCREWS w/NUTS

Part No. 405103
550 pieces • 30 items • 12062 steel tray

403104	**403110**	**405114**	**405126**	**405149**	**405163**	**405168**	**405183**
403105	**405107**	**405118**	**405128**	**405150**	**405165**	**405170**	**405184**
403106	**405110**	**405120**	**405130**	**405160**	**405166**	**405172**	
403107	**405112**	**405122**	**405147**	**405161**	**405167**	**405181**	

Numbers in assortment

BRASS HEX HEAD CAP SCREWS

- **USS coarse threads.**

	DIA. 1/4		DIA. 5/16		DIA. 3/8		DIA. 1/2	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	**706700**	50	**706708**	50	**706716**	50	---	-
3/4	**706701**	50	**706709**	50	**706717**	50	---	-
1	**706702**	50	**706710**	50	**706718**	50	**706724**	25
1-1/4	**706703**	50	**706711**	50	**706719**	50	**706725**	25
1-1/2	**706704**	50	**706712**	50	**706720**	50	**706726**	25
2	**706705**	50	**706713**	50	**706721**	25	**706727**	25
2-1/2	**706706**	50	**706714**	50	**706722**	25	**706728**	10
3	**706707**	50	**706715**	50	**706723**	25	**706729**	10

BRASS FULLY THREADED RODS

- **USS Coarse Threads.**
- **3 foot lengths.**

DIA.	PART NUMBER	DIA.	PART NUMBER	DIA.	PART NUMBER
6-32	**705702**	5/16-18	**705707**	3/4-10	**705712**
8-32	**705703**	3/8-16	**705708**	7/8-9	**705713**
10-24†	**705704**	7/16-14	**705709**	1-8	**705714**
10-32*†	**705705**	1/2-13	**705710**		
1/4-20	**705706**	5/8-11	**705711**		

*** SAE Fine thread** **† 3/16" diameter**

Sizes: No. 6-32 through 1/2" dia.
Part No. 705701
8 pieces • 8 items

705702	**705703**	**705704**	**705705**	**705706**	**705707**	**705708**	**705710**

Numbers in assortment

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BRASS

BRASS HEX MACHINE SCREW NUTS

SIZE	PART NUMBER	WRENCH SIZE	HEIGHT	QTY
4-40	**403104**	1/4	3/32	100
6-32	**403105**	5/16	7/64	100
8-32	**403106**	11/32	1/8	100
10-24†	**403107**	3/8	1/8	100
10-32*†	**403108**	3/8	1/8	100
12-24	**403109**	7/16	5/32	50
1/4-20	**403110**	7/16	3/16	50
1/4-28*	**403111**	7/16	3/16	50

***SAE Fine Thread** **†3/16**

Sizes: No. 6-32 through 1/4-20
Part No. 403101
160 pieces • 6 items • 12032 plastic tray

403105 403107 403109
403106 403108 403110

Numbers in assortment

BRASS FINISHED HEX NUTS

SIZE	USS COARSE PART NUMBER	SAE FINE PART NUMBER	WRENCH SIZE	HEIGHT	QTY
1/4	**51176**	**51177**	7/16	7/32	50
5/16	**51178**	**51179**	1/2	17/64	50
3/8	**51180**	**51181**	9/16	11/32	50
7/16	**51182**	**51183**	11/16	3/8	50
7/16*	**51190**	**51187**	5/8	3/8	50
1/2	**51184**	**51185**	3/4	7/16	24
5/8	**51172**	**51173**	15/64	35/64	24
3/4	**51174**	**51175**	1-1/8	41/64	24

***Undersized**

- **USS coarse & SAE fine threads.**

Sizes: 5/16" through 1/2" USS (COARSE) & SAE (FINE)
Part No. 51110
84 pieces • 12 items • 12030 plastic tray

51178 51180 51182 51184 51186 51190
51179 51181 51183 51185 51187 51198

Numbers in assortment

BRASS USS HI-NUTS

SIZE	PART NUMBER	WRENCH SIZE	HEIGHT	QTY
3/8	**51186**	9/16	5/8	50
7/16	**51198**	5/8	5/8	24

BRASS FLAT WASHERS

SIZE	PART NUMBER	I.D.	O.D.	THICKNESS	QTY
4	**504244**	.118	9/32	.025	100
6	**504245**	.148	5/16	.025	100
8	**504246**	.172	7/16	.036	100
10 (3/16)	**504201**	.195	7/16	.036	50
10 (3/16)	**504202**	.200	1/2	.040	50
12 (7/32)	**504203**	.228	1/2	.040	50
12 (7/32)	**504204**	.228	9/16	.040	50
14 (1/4)	**504205**	.260	9/16	.040	50
14 (1/4)	**504206**	.260	11/16	.051	50

SIZE	PART NUMBER	I.D.	O.D.	THICKNESS	QTY
16	**504207**	.280	5/8	.040	25
18	**504208**	.312	11/16	.051	25
5/16	**504247**	.336	7/8	.064	25
3/8	**504209**	.391	1	.081	25
7/16	**504248**	1/2	1-1/8	.081	25
1/2	**504210**	9/16	1-1/4	.091	25
5/8	**504211**	11/16	1-1/2	.102	25
5/8	**504217**	11/16	1-3/4	.102	25
3/4	**504249**	13/16	1-7/8	.114	10

Sizes: No. 10 through 5/8"
Part No. 504013
343 pieces • 11 items
12038 plastic tray

504201 504204 504207 504210
504202 504205 504208 504211
504203 504206 504209

Numbers in assortment

BRASS COUNTERSUNK FINISHING WASHERS

SIZE	PART NUMBER	QTY
6	**51068**	100
8	**51069**	100
10	**51070**	100
12	**51071**	100
14	**51072**	100

Part No. 706004
250 pieces • 5 items
12033 plastic tray

51068 51070 50172
51069 51071

Numbers in assortment

BRASS NICKEL PLATED FINISHING WASHERS

SCREW SIZE	PART NUMBER FLUSH	PART NUMBER COUNTERSUNK	QTY
No. 4	---	**51059**	250
No. 6	---	**51063**	250
No. 8	**51061**	**51064**	250
No. 10	**51062**	**51065**	250
No. 12	---	**51066**	250
No. 14(1/4)	---	**51067**	250

- **Brass nickel plated to prevent corrosion.**
- **Use on headliners, trim, door panels, etc.**

Sizes: No. 6 through 1/4"
Part No. 51060
400 pieces • 7 items
12035 plastic tray

51061 51063 51065 51067
51062 51064 51066

Numbers in assortment

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SILICON BRONZE and NYLON

SILICONE BRONZE HEX HEAD CAP SCREWS

- USS coarse threads.
- High resistance to corrosion due to temperature, seawater, gases and sewage.

	DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16		DIA. 1/2-13	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	**706750**	25	**706759**	25	**706768**	25	---	-
3/4	**706751**	25	**706760**	25	**706769**	25	---	-
1	**706752**	25	**706761**	25	**706770**	25	**706777**	10
1-1/4	**706753**	25	**706762**	25	**706771**	25	**706778**	10
1-1/2	**706754**	25	**706763**	25	**706772**	10	**706779**	10
1-3/4	**706755**	25	**706764**	25	**706773**	10	**706780**	10
2	**706756**	25	**706765**	10	**706774**	10	**706781**	10
2-1/2	**706757**	25	**706766**	10	**706775**	10	**706782**	5
3	**706758**	25	**706767**	10	**706776**	10	**706783**	5
3-1/2	---	-	---	-	---	-	**706784**	5
4	---	-	---	-	---	-	**706785**	5

SILICONE BRONZE FINISHED HEX NUTS

- USS coarse threads.

SIZE	PART NUMBER	WRENCH SIZE	HEIGHT	QTY
1/4	**706786**	7/16	7/32	25
5/16	**706787**	1/2	17/64	25
3/8	**706788**	9/16	21/64	25
1/2	**706789**	3/4	7/16	10

SILICONE BRONZE FLAT WASHERS

SIZE	PART NUMBER	I.D.	O.D.	THICKNESS	QTY
1/4	**706794**	.260	11/16	.040	25
5/16	**706795**	.336	7/8	.064	25
3/8	**706796**	.395	1	.064	25
1/2	**706797**	9/16	1-1/4	.091	10

SILICONE BRONZE SPLIT LOCK WASHERS

SIZE	PART NUMBER	QTY
1/4	**706790**	25
5/16	**706791**	25
3/8	**706792**	25
1/2	**706793**	10

NYLON MACHINE SCREWS

Excellent electrical insulation and corrosion resistance.

- Molded of Type 6/6 nylon.
- Natural color.
- Resists common solvents, alkalies, dilute mineral acids and most organic acids.

ROUND HEAD SLOTTED

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	**506500**	100	---	-	---	-	---	-	---	-	---	-
3/8	**506501**	100	---	-	---	-	---	-	---	-	---	-
1/2	**506502**	100	**506505**	100	**506511**	100	**506517**	100	**506520**	100	---	-
5/8	---	-	**506506**	100	**506512**	100	---	-	**506521**	100	---	-
3/4	**506503**	100	**506507**	100	**506513**	100	**506518**	100	**506522**	100	**506526**	100
1	**506504**	100	**506508**	100	**506514**	100	**506519**	100	**506523**	100	**506527**	100
1-1/4	---	-	**506509**	100	**506515**	100	---	-	**506524**	100	**506528**	100
1-1/2	---	-	**506510**	100	**506516**	100	---	-	**506525**	100	**506529**	100
2	---	-	---	-	---	-	---	-	---	-	**506530**	100

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NYLON

NYLON PAN HEAD SLOTTED

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	**506540**	100	---	-	---	-	---	-	---	-	---	-
3/8	**506541**	100	---	-	---	-	---	-	---	-	---	-
1/2	**506542**	100	**506545**	100	**506551**	100	**506557**	100	**506559**	100	---	-
5/8	---	-	**506546**	100	**506552**	100	---	-	**506560**	100	---	-
3/4	**506543**	100	**506547**	100	**506553**	100	---	-	**506561**	100	**506565**	100
1	**506544**	100	**506548**	100	**506554**	100	**506558**	100	**506562**	100	**506566**	100
1-1/4	---	-	**506549**	100	**506555**	100	---	-	**506563**	100	**506567**	100
1-1/2	---	-	**506550**	100	**506556**	100	---	-	**506564**	100	**506568**	100
2	---	-	---	-	---	-	---	-	---	-	**506569**	100

NYLON HEX HEAD SLOTTED

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-24		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	**506620**	100	---	-	---	-	---	-	---	-	---	-
3/8	**506621**	100	---	-	---	-	---	-	---	-	---	-
1/2	**506622**	100	**506625**	100	**506630**	100	**506636**	100	**506639**	100	---	-
5/8	---	-	**506626**	100	**506631**	100	---	-	**506640**	100	---	-
3/4	**506623**	100	**506627**	100	**506632**	100	**506637**	100	**506641**	100	**506645**	100
1	**506624**	100	**506628**	100	**506633**	100	**506638**	100	**506642**	100	**506646**	100
1-1/4	---	-	**506629**	100	**506634**	100	---	-	**506643**	100	**506647**	100
1-1/2	---	-	---	-	**506635**	100	---	-	**506644**	100	**506648**	100
2	---	-	---	-	---	-	---	-	---	-	**506649**	100

NYLON OVAL HEAD SLOTTED

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	**506575**	100	---	-	---	-	---	-	---	-
3/8	**506576**	100	---	-	---	-	---	-	---	-
1/2	**506577**	100	**506579**	100	**506583**	100	**506587**	100	---	-
5/8	---	-	**506580**	100	**506584**	100	**506588**	100	---	-
3/4	**506578**	100	**506581**	100	**506585**	100	**506589**	100	**506591**	100
1	---	-	**506582**	100	**506586**	100	**506590**	100	**506592**	100
1-1/2	---	-	---	-	---	-	---	-	**506593**	100

NYLON FLAT HEAD SLOTTED

	DIA. NO. 4-40		DIA. NO. 6-32		DIA. NO. 8-32		DIA. NO. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	**506600**	100	---	-	---	-	---	-	---	-
3/8	**506601**	100	---	-	---	-	---	-	---	-
1/2	**506602**	100	**506604**	100	**506607**	100	**506610**	100	---	-
5/8	---	-	---	-	---	-	---	-	---	-
3/4	**506603**	100	**506605**	100	**506608**	100	**506611**	100	**506613**	100
1	---	-	**506606**	100	**506609**	100	**506612**	100	**506614**	100
1-1/2	---	-	---	-	---	-	---	-	**506615**	100

NYLON HEX NUTS

SIZE	PART NUMBER	QTY	SIZE	PART NUMBER	QTY	SIZE	PART NUMBER	QTY
4-40	**506650**	100	8-32	**506652**	100	10-32	**506654**	100
6-32	**506651**	100	10-24	**506653**	100	1/4-20	**506655**	100

NYLON FLAT WASHERS

BOLT SIZE	PART NUMBER	O.D.	THICKNESS	QTY	BOLT SIZE	PART NUMBER	O.D.	THICKNESS	QTY
No. 4	**504219**	9/32	.030	100	5/16	**504224**	13/16	.040	100
No. 6	**504220**	5/16	.030	100	3/8	**504225**	1	.062	100
No. 8	**504221**	3/8	.030	100	7/16	**504226**	1-1/8	.062	50
No. 10†	**504222**	7/16	.040	100	1/2	**504227**	1-1/4	.062	50
1/4	**504223**	11/16	.040	100					

† 3/16 size

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WASHERS

MASTER WASHER ASSORTMENT

A size and style for all your requirements.

- **Standard alloy washers (Grade 2).**
- **5-styles, flat, split, external, internal and countersunk.**
- **6-sizes - #4, 6, 8, 10, 12 and 14 (1/4").**

SMALL DIAMETER
Part No. 501577
2215 pieces • 30 items • 12062 steel tray

FLAT	SPLIT	EXTERNAL	INTERNAL	COUNTERSUNK
No. 4	No. 4	No. 4	No. 4	No. 4
No. 6	No. 6	No. 6	No. 6	No. 6
No. 8	No. 8	No. 8	No. 8	No. 8
No. 10	No. 10	No. 10	No. 10	No. 10
No. 12	No. 12	No. 12	No. 12	No. 12
No. 14 (1/4)	No. 14 (1/4)	No. 14 (1/4)	No. 14 (1/4)	No. 14 (1/4)

Numbers in assortment

SUPRALLOY L9® FLAT WASHERS

- **All washers can be used with USS & SAE L9® Cap Screws.**
- **Yellow Cadmium Dichromate plated to resist rust & corrosion.**
- **The use of two grade 9 washers with each installation is engineered to produce the desired bolt clamp load.**

SHOP ASSORTMENT
Part No. 601311
225 pieces • 10 items
12043 plastic tray

602941	602943	602945	602947	602949
602942	602944	602946	602948	602950

Numbers in assortment

BOLT SIZE	PART NUMBER	I.D. MIN./MAX.	O.D. MIN./MAX.	THICKNESS MIN.MAX.	QTY
1/4	**602941**	17/64 - 19/64	5/8 - 41/64	3/64 - 5/64	100
5/16	**602942**	11/32 - 23/64	17/64 - 45/64	3/64 - 5/64	100
3/8	**602943**	13/32 - 27/64	13/16 - 55/64	3/64 - 5/64	100
7/16	**602944**	15/32 - 31/64	59/64 - 15/16	3/64 - 5/64	50
1/2	**602945**	33/64 - 35/64	1-1/16 - 1-3/32	5/64 - 1/8	50
9/16	**602946**	19/32 - 39/64	1-9/64 - 1-3/16	5/64 - 1/8	50
5/8	**602947**	21/32 - 11/16	1-5/16 - 1-11/32	5/64 - 1/8	25
3/4	**602948**	13/16 - 27/32	1-15/32 - 1-1/2	7/64 - 5/32	12
7/8	**602949**	15/16 - 31/32	1-3/4 - 1-25/32	7/64 - 5/32	12
1	**602950**	1-3/64 - 1-3/32	1-63/64 - 2-1/32	7/64 - 5/32	12

GRADE 8 ALLOY WASHERS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Through hardened alloy steel.**
- **Stays flat on rough surfaces.**
- **Will not "BEND" or "DISH".**
- **Prevents soft materials from caving in under load.**

USS (COARSE) THREAD

BOLT SIZE	PART NUMBER	I.D.	O.D.	THICKNESS MIN./MAX.	QTY
1/4	**504230**	5/16	3/4	.055/.072	200
5/16	**504231**	3/8	7/8	.064/.080	200
3/8	**504232**	7/16	1	.064/.080	200
7/16	**504233**	1/2	1-1/4	.064/.080	100
1/2	**504234**	9/16	1-3/8	.097/.121	100
9/16	**504235**	5/8	1-1/2	.097/.121	50
5/8	**504236**	11/16	1-3/4	.122/.146	50
3/4	**504237**	13/16	2	.122/.146	25
7/8	**504238**	15/16	2-1/4	.136/.160	25
1	**504239**	1-1/16	2-1/2	.136/.160	25
1-1/8	**504240**	1-1/4	2-3/4	.136/.160	25
1-1/4	**504241**	1-3/8	3	.136/.160	25
1-1/2	**504242**	1-5/8	3-1/2	.136/.160	25

SHOP ASSORTMENT
USS (COARSE)
Part No. 504008
200 pieces • 6 items
12028 plastic tray

504230	504232	504234
504231	504233	504235

Numbers in assortment

SHOP ASSORTMENT
SAE (FINE)
Part No. 504009
200 pieces • 6 items
12028 plastic tray

504275	504277	504279
504276	504278	504280

Numbers in assortment

SAE (FINE) THREAD

BOLT SIZE	PART NUMBER	I.D.	O.D.	THICKNESS MIN./MAX.	QTY
1/4	**504275**	9/32	5/8	.055/.072	200
5/16	**504276**	11/32	11/16	.055/.072	200
3/8	**504277**	13/32	13/16	.055/.072	200
7/16	**504278**	15/32	59/64	.055/.072	100
1/2	**504279**	17/32	1-1/16	.097/.121	100
9/16	**504280**	19/32	1-3/16	.097/.121	50
5/8	**504281**	11/16	1-5/16	.122/.146	50
3/4	**504282**	13/16	1-15/32	.122/.146	25
7/8	**504283**	15/16	1-3/4	.136/.160	25
1	**504284**	1-1/8	2	.136/.160	25
1-1/8	**504272**	1-1/4	2-1/4	.136/.160	25
1-1/4	**504273**	1-3/8	2-1/2	.136/.160	25
1-3/8	**504326**	1-1/2	2-3/4	.136/.160	10
1-1/2	**504274**	1-5/8	3	.136/.160	25
1-3/4	**504327**	1-7/8	3-3/8	.178/.201	5
2	**504328**	2-1/8	3-3/4	.178/.201	2

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WASHERS

HEAVY DUTY GRADE 8 WASHERS

60% thicker than ordinary washers.

Protected by **LUSTERPLATE™** against rust & corrosion

- **Use with Grade 8, Grade 5 and Grade 2 cap screws.**
- **Meets ASTM F-436 specifications.**
- **Conforms to SAE dimensions.**
- **Fabricated from quality, medium carbon steel, quenched and tempered.**

BOLT SIZE	PART NUMBER	I.D.	O.D.	THICKNESS MIN./MAX.	QTY
1/4	**504251**	9/32	5/8	.090/.110	50
5/16	**504252**	11/32	11/16	.090/.110	50
3/8	**504253**	13/32	13/16	.090/.110	25
7/16	**504254**	15/32	59/64	.090/.110	25
1/2	**504255**	17/32	1-1/16	.156/.188	10
9/16	**504331**	19/32	1-3/16	.156/.188	10
5/8	**504256**	21/32	1-5/16	.170/.195	10
3/4	**504257**	13/16	1-15/32	.170/.195	10
7/8	**504258**	15/16	1-3/4	.235/.265	5
1	**504259**	1-1/16	2	.235/.265	5
1-1/8	**504260**	1-1/4	2-1/4	.286/.336	5
1-1/4	**504329**	1-3/8	2-1/2	.286/.336	5
1-1/2	**504330**	1-5/8	3	.286/.336	5

Part No. 504250
155 pieces • 6 items
12028 plastic tray

504251 504253 504255
504252 504254 504256

Numbers in assortment

Part No. 501618
219 pieces • 9 items
12061 steel tray

504251 504254 504257
504252 504255 504258
504253 504256 504259

Numbers in assortment

SQUARE BEVELED WASHERS

Used in high strength structural applications mainly american standard beams and channels.

BOLT SIZE	PART NUMBER	QTY	I.D.	O.D.
1/2	**504345**	5	17/32	1-3/4
5/8	**504346**	5	11/16	1-3/4
3/4	**504347**	5	13/16	1-3/4
7/8	**504348**	5	15/16	1-3/4
1	**504349**	5	1-1/8	1-3/4

- **Beveled washers compensate for lack of parallism.**
- **Use with A325 and A490 bolts.**
- **Hardened steel, quenched and tempered.**
- **Meets ASTM Specifications F436.**

STANDARD ALLOY WASHERS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Resists distortion.**
- **Used with Grade 2 or Grade 5 capscrews and bolts.**

USS (COARSE) THREAD

BOLT SIZE	PART NUMBER	I.D.	O.D.	THICKNESS MIN./MAX.	QTY
3/16*	**50905**	1/4	9/16	3/64	200
1/4	**50906**	5/16	3/4	1/6	400
5/16	**50907**	3/8	7/8	5/64	200
3/8	**50908**	7/16	1	5/64	200
7/16	**50909**	1/2	1-1/4	5/64	200
1/2	**50910**	9/16	1-3/8	7/64	100
9/16	**50911**	5/8	1-1/2	7/64	100
5/8	**50912**	11/16	1-3/4	9/64	100
3/4	**50913**	13/16	2	5/32	50
7/8	**50914**	15/16	2-1/4	11/64	50
1	**50915**	1-1/16	2-1/2	11/64	25
1-1/8	**50916**	1-1/4	2-3/4	11/64	25
1-1/4	**50917**	1-3/8	3	11/64	25
1-1/2	**50918**	1-5/8	3-1/2	3/16	25

SAE (FINE) THREAD

BOLT SIZE	PART NUMBER	I.D.	O.D.	THICKNESS MIN./MAX.	QTY
No. 6	**50921**	5/32	3/8	3/64	500
No. 8	**50922**	3/16	7/16	3/64	500
3/16*	**50923**	7/32	1/2	3/64	500
1/4	**50924**	9/32	5/8	1/16	400
5/16	**50925**	11/32	11/16	1/16	200
3/8	**50926**	13/32	13/16	1/16	200
7/16	**50927**	15/32	59/64	1/16	200
1/2	**50928**	17/32	1-1/16	3/32	100
9/16	**50929**	19/32	1-3/16	3/32	100
5/8	**50930**	21/32	1-5/16	3/32	100
3/4	**50931**	13/16	1-1/2	9/64	50
7/8	**50932**	15/16	1-3/4	9/64	50
1	**50933**	1-1/16	2	9/64	25
1-1/8	**50934**	1-3/16	2-1/4	9/64	25
1-1/4	**50935**	1-5/16	2-1/2	5/32	25
1-1/2	**50936**	1-9/16	3	5/32	25

***10 size**

SHOP ASSORTMENT
USS (COARSE)
Part No. 50901
200 pieces • 6 items
12028 plastic tray

50906 50908 50910
50907 50909 50911

Numbers in assortment

SHOP ASSORTMENT
SAE (FINE)
Part No. 50902
440 pieces • 10 items
12030 plastic tray

50921 50923 50925 50927 50929
50922 50924 50926 50928 50930

Numbers in assortment

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WASHERS

MACHINE SCREW WASHERS

Part No. 50950
500 pieces • 6 items
12036 plastic tray

50951	50953	50955
50952	50954	50956

Numbers in assortment

SCREW SIZE	PART NUMBER	I.D.	O.D.	THICKNESS	QTY
No. 4	**50951**	1/8	9/32	1/32	200
No. 6	**50952**	5/32	3/8	1/32	200
No. 8	**50953**	11/64	3/8	1/32	200
No. 10†	**50954**	13/64	7/16	1/32	200
No. 12	**50955**	7/32	1/2	3/64	200
1/4	**50956**	17/64	9/16	3/64	200
5/16	**50957**	21/64	3/4	1/16	200
3/8	**50958**	25/64	7/8	1/16	250

† 3/16 size

NICKEL PLATED FINISHING WASHERS

Part No. 51060
400 pieces • 7 items
12035 plastic tray

51061	51063	51065	51067
51062	51064	51066	

Numbers in assortment

- **Brass nickel plated to prevent corrosion.**
- **Use on headliners, trim, door panels, etc.**

SCREW SIZE	PART NUMBER FLUSH	PART NUMBER COUNTERSUNK	QTY
No. 4	---	**51059**	100
No. 6	---	**51063**	100
No. 8	**51061**	**51064**	100
No. 10	**51062**	**51065**	100
No. 12	---	**51066**	100
No. 14(1/4)	---	**51067**	100

OVERSIZE WASHERS (FENDER WASHERS)

- **Designed for applications requiring large bearing surface.**
- **Universal applications.**

Part No. 716001
110 pieces • 6 items • 12047 plastic tray

716478 716479 716480 716481 716482 716483

Numbers in assortment

Part No. 501483
325 pieces • 16 items
12050 steel tray

716481	716491	716495	717142
716483	716492	716497	717143
716484	716493	717140	717144
716490	716494	717141	717145

Numbers in assortment

BOLT SIZE	THICKNESS 1/16	THICKNESS 1/8	O.D.	QTY
3/16	**716490**	---	1/2	100
3/16	**716491**	---	3/4	100
3/16	---	**716477**	15/16	25
1/4	**717140**	---	5/8	100
1/4	---	**716478**	1	25
1/4	---	**716479**	1-1/8	25
1/4	**717141**	---	1-1/4	100
1/4	---	**716480**	1-1/2	25
5/16	**717142**	---	3/4	100
5/16	**717143**	**716481**	1-1/4	50
5/16	**716492**	---	1-1/2	50
3/8	**717144**	**716482**	1-1/4	50
3/8	**717145**	---	1-1/2	50
3/8	**716493**	**716483**	1-3/4	25
3/8	**716497**	---	2	25
1/2	**716494**	---	1-1/2	25
1/2	**716495**	**716484**	2	25

WHITE NYLON WASHERS

Part No. 504014
245 pieces • 8 items
12031 plastic tray

504220	504222	504224	504226
504221	504223	504225	504227

Numbers in assortment

- **Multi-purpose, non-conductive, non-corrosive.**

BOLT SIZE	PART NUMBER	O.D.	THICKNESS	QTY
No. 4	**504219**	9/32	.030	100
No. 6	**504220**	5/16	.030	100
No. 8	**504221**	3/8	.030	100
No. 10†	**504222**	7/16	.040	100
1/4	**504223**	11/16	.040	100
5/16	**504224**	13/16	.040	100
3/8	**504225**	1	.062	100
7/16	**504226**	1-1/8	.062	50
1/2	**504227**	1-1/4	.062	50

† 3/16 size

BOWED SPRING WASHERS

- **Parkerized to resist corrosion.**

I.D.	PART NUMBER	O.D.	QTY
1/4	**504212**	9/16	50
5/16	**504213**	3/4	50
3/8	**504214**	25/32	50
7/16	**504215**	3/4	50

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WASHERS

GALVANIZED WASHERS

BOLT SIZE	PART NUMBER	QTY
1/4	**603136**	50
5/16	**603137**	50
3/8	**603138**	50
1/2	**603139**	25
5/8	**603140**	10

- **Hot dipped galvanized for superior corrosion resistance.**
- **For use with USS (coarse thread) galvanized bolts.**

Part No. 601051
165 pieces • 5 items
12047 plastic tray

603136 603138 603140
603137 603139

Numbers in assortment

SUPRALLOY HIGH STRENGTH SPLIT LOCK WASHERS

- **Special high carbon alloy steel for greater tension.**
- **Tighter assemblies, reusable without loss of tension.**
- **Won't gouge mating surfaces.**
- **Baked Yellow Zinc Dichromate finish eliminates rust.**
- **Used with Grade 8 cap screws.**

SIZE	PART NUMBER	QTY
1/4	**504285**	100
5/16	**504286**	100
3/8	**504287**	100
7/16	**504288**	100
1/2	**504289**	100
9/16	**504290**	50
5/8	**504291**	50

SIZE	PART NUMBER	QTY
3/4	**504292**	25
7/8	**504293**	25
1	**504294**	25
1-1/8	**504295**	25
1-1/4	**504296**	25
1-3/8	**504298**	10
1-1/2	**504297**	25

Part No. 504011
300 pieces • 6 items
12028 plastic tray

504285 504287 504289
504286 504288 504290

Numbers in assortment

Part No. 501620
385 pieces • 10 items
12061 steel tray

504285 504287 504289 504291 504293
504286 504288 504290 504292 504294

Numbers in assortment

A14

STANDARD SPLIT LOCK WASHERS

- **Non-linking, high carbon spring steel.**
- **Reusable without loss of locking power.**
- **Used with Grade 5 or Grade 2 cap screws.**

Protected by
LUSTERPLATE™
against rust & corrosion

SIZE	PART NUMBER	QTY
No. 4	**50810**	500
No. 6	**50811**	500
No. 8	**50812**	500
No. 10*	**50813**	500
No. 12	**50814**	500
1/4	**50815**	400
5/16	**50816**	200
3/8	**50817**	200
7/16	**50818**	200
1/2	**50819**	100
9/16	**50820**	100

SIZE	PART NUMBER	QTY
5/8	**50821**	100
3/4	**50822**	50
7/8	**50823**	50
1	**50824**	25
1-1/8	**50825**	25
1-1/4	**50826**	25
1-3/8	**50828**	10
1-1/2	**50827**	25
1-3/4	**50829**	5
2	**50830**	2

*** 3/16 size**

Part No. 501619
750 pieces • 15 items
12050 steel tray

50810 50813 50816 50819 50822
50811 50814 50817 50820 50823
50812 50815 50818 50821 50824

Numbers in assortment

HIGH COLLAR SPLIT LOCK WASHERS

- **Use high collar lock washers with socket head cap screws.**

Protected by
LUSTERPLATE™
against rust & corrosion

SIZE	PART NUMBER	QTY
No. 8	**504261**	100
No. 10†	**504262**	100
1/4	**504263**	100
5/16	**504264**	100
3/8	**504265**	100
7/16	**504266**	100

SIZE	PART NUMBER	QTY
1/2	**504267**	50
5/8	**504268**	50
3/4	**504269**	25
7/8	**504270**	25
1	**504271**	25

† 3/16 size

Part No. 501621
436 pieces • 11 items
12061 steel tray

504261 504264 504267 504270
504262 504265 504268 504271
504263 504266 504269

Numbers in assortment

GALVANIZED LOCK WASHERS

SIZE INCHES	PART NUMBER	QTY
1/4	**603142**	100
5/16	**603143**	100
3/8	**603144**	100
1/2	**603145**	50
5/8	**603146**	25

- **Hot dipped galvanized for superior corrosion protection.**
- **High carbon spring steel.**

Part No. 601052
262 pieces • 5 items
12047 plastic tray

603142 603143 603144 603145 603146

Numbers in assortment

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WASHERS

THE CAM-LOCK SYSTEM

PROBLEM
Fastener loosening due to vibration or cyclic action.

SOLUTION
Our CAM-LOCK washers, the system you can tighten...and forget

The CAM-LOCK System uses two washers, each with inclined cams on one side, and gripping ridges on the other. When installed, the cammed sides are mated, leaving the ridged sides to grip the cap screw and joint material. Only exerting torque in excess of 50% more than that required for tightening will loosen the CAM-LOCK system. Meets military specs. MCN 5310-H06-4254 through 4266.

SIZE INCHES	SIZE METRIC	PART NUMBER	QTY
3/16	5mm	**504301**	100
1/4	6mm	**504302**	100
5/16	8mm	**504303**	100
3/8	10mm	**504304**	100
7/16	11mm	**504305**	50
1/2	12mm	**504306**	50
9/16	14mm	**504307**	50
5/8	16mm	**504308**	24
3/4	19mm	**504309**	24
7/8	22mm	**504310**	24
1	25mm	**504311**	24
1-1/16	27mm	**504312**	10
1-1/8	28mm	**504313**	10
1-1/4	32mm	**504314**	10
1-1/2	38mm	**504315**	10

Made from 1038 steel, heat treated to 45 on the Rockwell Hardness Scale.

Part No. 504005
150 pieces • 3 items
12034 plastic tray

504302 504303 504304
Numbers in assortment

Part No. 504006
250 pieces • 5 items
12034 plastic tray

504302 504303 504304 504306 504308
Numbers in assortment

TOOTHED LOCK WASHERS

- **High carbon spring steel.**
- **Vibration resistant.**
- **Teeth grip surfaces to prevent loosening.**
- **Internal tooth, external tooth, countersunk and combination.**

SIZE	INTERNAL PART NUMBER	INTERNAL QTY	EXTERNAL PART NUMBER	EXTERNAL QTY	COUNTERSUNK PART NUMBER	COUNTERSUNK QTY	COMBINATION INT/EXT PART NUMBER	COMBINATION INT/EXT QTY
No. 4	**51009**	200	**51029**	200	**---**	-	**51075**	100
No. 6	**51010**	200	**51030**	200	**51044**	200	**51076**	100
No. 8	**51011**	200	**51031**	200	**51045**	200	**51077**	100
No. 10*	**51012**	200	**51032**	200	**51046**	200	**51078**	100
No. 12	**51013**	200	**51033**	200	**51047**	200	**---**	-
1/4	**51014**	200	**51034**	200	**51048**	200	**51079**	100
5/16	**51019**	200	**51035**	200	**51049**	200	**51080**	50
3/8	**51020**	200	**51036**	200	**51050**	200	**51081**	50
7/16	**51021**	200	**51037**	200	**---**	-	**51082**	50
1/2	**51022**	200	**51038**	200	**---**	-	**51083**	25
9/16	**51023**	100	**51039**	100	**---**	-	**---**	-
5/8	**51024**	100	**51040**	100	**---**	-	**51084**	25
3/4	**51025**	50	**51041**	50	**---**	-	**51085**	25
7/8	**51026**	50	**51042**	50	**---**	-	**---**	-
1	**51027**	50	**51043**	50	**---**	-	**---**	-

*** 3/16 size**

INTERNAL, EXTERNAL & COUNTERSUNK
Part No. 501021
1255 pieces • 24 items
12017 steel tray

51011 51020 51031 51036 51046
51012 51021 51032 51037 51048
51013 51022 51033 51038 51049
51014 51024 51034 51040 51050
51019 51025 51035 51041
Numbers in assortment

INTERNAL TOOTHED
Part No. 51001
300 pieces • 6 items
12032 plastic tray

51012 51019 51021
51014 51020 51022
Numbers in assortment

EXTERNAL TOOTHED
Part No. 51002
240 pieces • 6 items
12032 plastic tray

51032 51035 51037
51034 51036 51038
Numbers in assortment

COMBINATION INTERNAL & EXTERNAL
Part No. 51003
250 pieces • 6 items
12047 plastic tray

51078 51080 51082
51079 51081 51083
Numbers in assortment

MACHINERY BUSHINGS

- **Reduce wear between moving parts.**
- **Prevent marring of fine finishes.**
- **14 gauge thick (.068-.082).**
- **Low carbon mild steel, resists friction.**
- **Precision finished, narrow rim.**

Used for bushings, spacers for sprockets, pulleys, gears and bearings.

Part No. 501528
183 pieces • 14 items
12050 steel tray

421300 421303 421306 421399 421312
421301 421304 421307 421310 421313
421302 421305 421308 421311
Numbers in assortment

SHAFT SIZE	PART NUMBER	OUTSIDE DIAMETER	QTY
1/2	**421300**	7/8	25
9/16	**421301**	15/16	25
5/8	**421302**	1	25
3/4	**421303**	1-1/4	25
7/8	**421304**	1-3/8	25
1	**421305**	1-1/2	25
1-1/8	**421306**	1-3/4	25

SHAFT SIZE	PART NUMBER	OUTSIDE DIAMETER	QTY
1-1/4	**421307**	1-7/8	25
1-3/8	**421308**	2-1/8	10
1-1/2	**421309**	2-1/4	10
1-5/8	**421310**	2-3/8	10
1-3/4	**421311**	2-1/2	10
1-7/8	**421312**	2-7/8	10
2	**421313**	3	10

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WASHERS

GALVANIZED SELF SEALING WASHER

Used with sheet metal screws, wood screws, machine screws and cap screws.

- **100% leaktight - rubber gasket bonded to a steel washer, for a leak-proof seal.**

FITS SCREW SIZE	O.D.	PART NUMBER	QTY
8	1/2	**504318**	100
10 (3/16)	1/2	**504319**	100
12	5/8	**504320**	100
14 (1/4)	5/8	**504325**	100
14 (1/4)	1	**504321**	50
14 (1/4)	1-1/8	**504322**	50
5/16	3/4	**504323**	50
3/8	3/4	**504324**	50

- **EPDM seal resists heat, cold, sunlight, and chemicals, to remain pliable and provide a positive seal.**
- **Tightly seals opening and provides cushioning on fastened material.**
- **Nominal total thickness 7/64".**
- **One piece construction, eliminates leakage problems.**

Part No. 504300
275 pieces • 8 items
12038 plastic tray

504318 504320 504322 504324
504319 504321 504323 504325
Numbers in assortment

FIBER WASHERS

Washers, gaskets, insulation shields used on motors, thermal and electrical stand-offs, bowling alley equipment, lawn mowers, automobiles, welding equipment.

I.D	O.D.	THICKNESS 1/16" PART NO.	QTY	THICKNESS 1/32" PART NO.	QTY
3/32	1/4	---	-	**421350**	50
1/8	1/4	**421325**	50	**421351**	50
5/32	5/16	---	-	**421352**	50
3/16	5/16	**421326**	50	---	-
3/16	3/8	**421327**	50	**421353**	50
1/4	3/8	**421328**	50	---	-
1/4	1/2	**421329**	50	**421354**	50
5/16	7/16	**421330**	50	---	-
5/16	9/16	**421331**	50	---	-
3/8	1/2	**421332**	50	---	-
3/8	5/8	**421333**	50	**421355**	50
7/16	11/16	**421334**	50	**421356**	50
1/2	5/8	---	-	**421357**	50
1/2	3/4	**421335**	50	---	-
9/16	13/16	**421336**	25	**421358**	50
5/8	3/4	**421337**	25	---	-
5/8	7/8	**421338**	25	**421359**	50
11/16	15/16	**421339**	25	**421360**	50
3/4	1	**421340**	25	---	-
3/4	1-1/16	**421341**	25	**421361**	25
13/16	1-1/8	---	25	**421362**	25
15/16	1-1/4	---	25	**421363**	25
7/8	1-3/16	**421342**	25	---	-
1	1-5/16	**421343**	25	---	-

All sizes included in assortment.

- **Two thicknesses available 1/16" and 1/32".**
- **Heat resistant.**
- **Flexible, tough and long wearing.**
- **Retains shape.**
- **Resists tearing.**
- **Vulcanized fiber - provides strength, hardness, and elasticity.**

Part No. 501543 (1/16" Thick)
670 pieces • 19 items
12071 steel tray

421325 421329 421333 421337 421341
421326 421330 421334 421338 421342
421327 421331 421335 421339 421343
421328 421332 421336 421340
Numbers in assortment

DECK WASHERS

Used to fasten down the wood flooring found on all types of flat bed trailers, tagalongs, EZ loaders, etc.

HOLE DIA.	O.D.	PART NUMBER	QTY
3/8	2	**716499**	100

- **Large weight bearing surface and 1/8" heavy duty thickness provide strong secure holding power for permanent repairs.**
- **Zinc plated to resist rust.**
- **Slight convex surface for added strength.**

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SHEET METAL SCREWS

SLOTTED PAN (BINDING) HEAD SHEET METAL SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- Deep slotted head
- Extra sharp point
- Case hardened steel
- Clean sharp threads

Sizes: 4 x 3/8" through 14 x 1-1/4"
Part No. 501014
735 pieces • 24 items
12017 steel tray

27101	27114	27123	27129	27139
27106	27115	27125	27134	27142
27107	27117	27126	27136	27144
27109	27119	27127	27137	27145
27111	27120	27128	27138	

Numbers in assortment

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14 (1/4)	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/4	27100	200	27105	200	---	-	---	-	---	-	---	-
3/8	27101	200	27106	200	27114	200	27122	200	27161	100	---	-
1/2	27102	200	27107	200	27115	200	27123	200	27132	200	27140	200
5/8	27103	200	27108	200	27116	200	27124	200	27133	200	27141	200
3/4	27104	200	27109	200	27117	200	27125	200	27134	200	27142	200
7/8	---	-	27110	200	27118	200	27126	200	27135	200	27143	200
1	---	-	27111	200	27119	200	27127	200	27136	200	27144	200
1-1/4	---	-	27112	100	27120	100	27128	100	27137	100	27145	100
1-1/2	---	-	27113	100	27121	100	27129	100	27138	100	27146	100
1-3/4	---	-	---	-	27149	50	27130	100	---	-	27147	100
2	---	-	---	-	27150	50	27131	100	27139	100	27148	100
2-1/2	---	-	---	-	27151	25	27153	25	27155	25	27157	25
3	---	-	---	-	27152	25	27154	25	27156	25	27158	25

PAN HEAD PHILLIPS SHEET METAL SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- Extra sharp point.
- Case hardened steel.
- Clean sharp threads.

Sizes: 6 x 1/2" through 14 x 1"
Part No. 505025
270 pieces • 12 items • 12030 plastic tray

505101	505105	505109	505114	505124	505129
505103	505107	505111	505118	505125	505130

Numbers in assortment

Sizes: 6 x 3/8" through 14 x 2"
Part No. 501004
540 pieces • 24 items
12017 steel tray

505100	505106	505112	505118	505124	505129
505101	505107	505114	505120	505125	505130
505103	505109	505115	505122	505127	505132
505105	505111	505116	505123	505128	505134

Numbers in assortment

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14 (1/4)	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/4	505179	200	---	-	---	-	---	-	---	-
3/8	505100	200	505106	200	505182	200	---	-	---	-
1/2	505101	200	505107	200	505114	200	505123	100	505128	200
5/8	505102	100	505108	100	505115	100	505183	100	505195	100
3/4	505103	100	505109	100	505116	100	505124	100	505129	100
7/8	505104	100	505110	100	505117	100	---	-	---	-
1	505105	100	505111	100	505118	100	505125	100	505130	100
1-1/4	---	-	505112	100	505119	100	505126	100	505131	100
1-1/2	---	-	505113	100	505120	100	505127	100	505132	100
1-3/4	---	-	505180	50	505121	50	---	-	505133	50
2	---	-	505181	50	505122	50	505184	50	505134	50
2-1/2	---	-	505940	25	505942	25	505944	25	505946	25
3	---	-	505941	25	505943	25	505945	25	505947	25

PAN HEAD PHILLIPS SHEET METAL SCREWS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- Black oxide finish - glare preventive.
- Extra sharp point.
- Case hardened steel.
- Clean sharp threads.

Sizes: 4 x 1/4" through 10 x 1-1/2"
Part No. 501737
525 pieces • 18 items
12071 steel tray

505750	505755	505759	505763	717520
505751	505756	505760	505764	717521
505752	505757	505761	505765	
505753	505758	505762	717519	

Numbers in assortment

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/4	505750	50	---	-	---	-	---	-
3/8	505751	50	---	-	---	-	---	-
1/2	505752	50	505755	25	717519	25	505761	25
3/4	505753	25	505756	25	717520	25	505762	25
1	---	-	505757	25	717521	25	505763	25
1-1/4	---	-	505758	25	505759	25	505764	25
1-1/2	---	-	---	-	505760	25	505765	25

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SHEET METAL SCREWS

PAN HEAD SQUARE DRIVE (ROBERTSON®) SHEET METAL SCREWS

- Square recess for maximum driving torque.
- Reduces driver bit "cam-out", no screwdriver slippage, or marred work.
- High quality heat treated carbon steel.
- Sharp gimlet point.

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/8	512175	100	512179	100	512186	100
1/2	512176	100	512180	100	512187	100
3/4	512177	100	512181	100	512188	100
1	512178	100	512182	100	512189	100
1-1/4	---	-	512183	100	512190	100
1-1/2	---	-	512184	100	512191	100
2	---	-	512185	100	512192	100

Part No. 512002
533 pieces • 18 items • 12040 plastic tray

512175	512178	512181	512184	512187	512190
512176	512179	512182	512185	512188	512191
512177	512180	512183	512186	512189	512192

Numbers in assortment

Part No. 501487
1015 pieces • 18 items
12071 steel tray

512175	512178	512181	512184	512187	512190
512176	512179	512182	512185	512188	512191
512177	512180	512183	512186	512189	512192

Numbers in assortment

PAN HEAD COMBINATION SHEET METAL SCREWS

- All-in-one Slotted and Phillips head for more versatility.
- Extra sharp point.
- Case hardened steel.
- Clean, sharp threads.

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/8	505860	100	505867	100	505876	50	---	-	---	-
1/2	505861	100	505868	100	505877	50	---	-	---	-
5/8	505862	100	505869	100	505878	50	---	-	---	-
3/4	505863	100	505870	100	505879	50	505885	25	505891	25
1	505864	100	505871	100	505880	50	505886	25	505892	25
1-1/4	505865	100	505872	100	505881	50	505887	25	505893	25
1-1/2	505866	100	505873	50	505882	50	505888	25	505894	25
1-3/4	---	-	505874	50	505883	25	505889	25	505895	25
2	---	-	505875	50	505884	25	505890	25	505896	25

A15

OVAL HEAD SLOTTED SHEET METAL SCREWS

- Deep slotted head.
- Extra sharp point.
- Case hardened steel.
- Clean sharp threads.

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14 (1/4)	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/4	28100	200	28105	200	---	-	---	-	---	-	---	-
3/8	28101	200	28106	200	28114	200	28122	200	---	-	---	-
1/2	28102	200	28107	200	28115	200	28123	200	28132	200	28140	200
5/8	28103	200	28108	200	28116	200	28124	200	28133	200	28141	200
3/4	28104	200	28109	200	28117	200	28125	200	28134	200	28142	200
7/8	---	-	28110	200	28118	200	28126	200	28135	200	28143	200
1	---	-	28111	200	28119	200	28127	200	28136	200	28144	200
1-1/4	---	-	28112	100	28120	100	28128	100	28137	100	28145	100
1-1/2	---	-	28113	100	28121	100	28129	100	28138	100	28146	100
1-3/4	---	-	---	-	---	-	28130	100	---	-	28147	100
2	---	-	---	-	---	-	28131	100	28139	100	28148	100

Sizes: 4 x 3/8" through 14 x 1-1/4"
Part No. 501006
925 pieces • 24 items
12017 steel tray

28101	28114	28123	28129	28139
28106	28115	28125	28134	28142
28107	28117	28126	28136	28144
28109	28119	28127	28137	28145
28111	28120	28128	28138	

Numbers in assortment

OVAL HEAD PHILLIPS SHEET METAL SCREWS

- Extra sharp point.
- Case hardened steel.
- Clean sharp threads.

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/8	50440	50	50411	50	50418	50	50444	50	---	-
1/2	50441	50	50412	50	50419	50	50428	50	---	-
5/8	---	-	50413	50	50420	50	50429	50	---	-
3/4	---	-	50414	50	50421	50	50430	50	50436	50
7/8	---	-	50415	50	50422	50	50431	50	---	-
1	---	-	50416	50	50423	50	50432	50	50437	50
1-1/4	---	-	50417	50	50424	50	50433	50	50447	50
1-1/2	---	-	50442	50	50425	50	50434	50	50438	50
1-3/4	---	-	---	-	50426	50	50445	50	---	-
2	---	-	---	-	50427	50	50435	50	50439	50
2-1/2	---	-	---	-	50443	25	50446	25	---	-

Sizes: 6 x 1/2" through 12 x 1-1/2"
Part No. 505001
211 pieces • 12 items • 12030 plastic tray

50412	50417	50423	50428	50434	50437
50416	50419	50424	50432	50436	50438

Numbers in assortment

Sizes: 6 x 1/2" through 12 x 2"
Part No. 501005
795 pieces • 24 items
12017 steel tray

50412	50417	50423	50428	50432	50436
50413	50418	50424	50529	50433	50437
50414	50420	50425	50430	50434	50438
50416	50421	50426	50431	50435	50439

Numbers in assortment

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SHEET METAL SCREWS

OVAL HEAD PHILLIPS SHEET METAL SCREWS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Black oxide finish - glare preventive.**
- **Extra sharp point.**
- **Case hardened steel.**
- **Clean sharp threads.**

Sizes: 4 x 3/8" through 10 x 1-1/2"
Part No. 501738
575 pieces • 20 items
12071 steel tray

505701	505705	716175	716179	716184
505702	505706	716176	716180	716185
505703	505707	716177	716181	716186
505704	505717	716178	716182	717510

Numbers in assortment

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/4	505700	50	---	-	---	-	---	-
3/8	505701	50	---	-	---	-	---	-
1/2	505702	50	505706	25	716179	25	505707	25
5/8	505703	50	716175	25	---	-	---	-
3/4	505704	25	716176	25	717510	25	716184	25
1	505705	25	716177	25	716180	25	716185	25
1-1/4	---	-	716178	25	716181	25	505717	25
1-1/2	---	-	---	-	716182	25	716186	25
1-3/4	---	-	---	-	716183	25	---	-
2	---	-	---	-	---	-	716187	25

FLAT HEAD SLOTTED SHEET METAL SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Clean sharp threads.**
- **Hardened steel.**
- **Deep slotted head.**
- **Sharp starter point.**

Sizes: 6 x 1/2" through 14 x 1"
Part No. 506003
270 pieces • 12 items
12030 plastic tray

506149	506159	506181
506151	506161	506183
506153	506168	506191
506157	506172	506193

Numbers in assortment

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14 (1/4)	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/4	506140	50	506147	50	---	-	---	-	---	-	---	-
3/8	506141	50	506148	50	506156	50	---	-	---	-	---	-
1/2	506142	50	506149	50	506157	50	506168	50	506179	50	---	-
5/8	506143	50	506150	50	506158	50	506169	50	506180	50	506190	25
3/4	506144	50	506151	50	506159	50	506170	50	506181	50	506191	25
7/8	506145	50	506152	50	506160	50	506171	50	506182	50	506192	25
1	506146	50	506153	50	506161	50	506172	50	506183	50	506193	25
1-1/4	---	-	506154	50	506162	50	506173	50	506184	25	506194	25
1-1/2	---	-	506155	50	506163	50	506174	50	506185	25	506195	25
1-3/4	---	-	---	-	506164	25	506175	25	506186	25	506196	25
2	---	-	---	-	506165	25	506176	25	506187	25	506197	25
2-1/2	---	-	---	-	506166	25	506177	25	506188	25	506198	25
3	---	-	---	-	506167	25	506178	25	506189	25	506199	25

A15

FLAT HEAD PHILLIP SHEET METAL SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Sharp leader point.**
- **Deep recessed cross-slots.**
- **Case hardened steel.**

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14 (1/4)	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/8	506100	50	506104	50	506108	50	---	-	---	-	---	-
1/2	506101	50	505185	50	505189	50	506112	50	---	-	---	-
5/8	506102	50	505186	50	505190	50	506113	50	506120	50	506127	25
3/4	506103	50	505187	50	505191	50	506114	50	506121	50	506128	25
7/8	---	-	506105	50	506109	50	---	-	---	-	---	-
1	---	-	505188	50	505192	50	506115	50	506122	50	506129	25
1-1/4	---	-	506106	50	505193	50	506116	50	506123	25	506130	25
1-1/2	---	-	506107	50	505194	50	506117	50	506124	25	506131	25
1-3/4	---	-	---	-	506110	25	506118	50	506125	25	506132	25
2	---	-	---	-	506111	25	506119	25	506126	25	506133	25
2-1/2	---	-	---	-	---	-	---	-	---	-	506134	25

Sizes: 6 x 1/2" through 12 x 1-1/2"
Part No. 506002 • 260 pieces • 12 items • 12030 plastic tray

505185	505189	505193	506112	506117	506122
505188	505192	506106	506115	506121	506124

Numbers in assortment

Sizes: 6 x 1/2" through 12 x 1/2"
Part No. 501490 • 1015 pieces • 24 items • 12017 steel tray

505185	505188	505192	506106	506112	506115	506119	506122
505186	505190	505193	506108	506113	506116	506120	506124
505187	505191	505194	506110	506114	506117	506121	506126

Numbers in assortment

FLAT HEAD PHILLIPS SHEET METAL SCREWS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Black oxide finish - glare preventive.**
- **Extra sharp point.**
- **Case hardened steel.**
- **Clean sharp threads.**

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/8	505726	50	---	-	---	-	---	-
1/2	505727	50	505729	25	505732	25	505736	25
5/8	505728	50	---	-	---	-	---	-
3/4	---	-	505730	25	505733	25	505737	25
1	---	-	505731	25	505734	25	505738	25
1-1/4	---	-	---	-	717514	25	505739	25
1-1/2	---	-	---	-	505735	25	---	-
1-3/4	---	-	---	-	---	-	505740	25

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SHEET METAL SCREWS

TRUSS HEAD SLOTTED* SHEET METAL SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- Deep slotted heads.
- Extra sharp point.
- Case hardened steel.
- Clean sharp threads.

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14 (1/4)	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/2	505136	50	505144	50	---	-	505162	25	505170	12
5/8	505137	50	---	-	505154	50	---	-	---	-
3/4	---	-	---	-	505155	50	505164	25	505172	12
7/8	---	-	505147	50	505156	50	---	-	---	-
1	505140	50	---	-	---	-	505166	25	505174	12
1-1/4	---	-	505149	50	---	-	505167	12	---	-
1-1/2	---	-	505150	25	505159	25	---	-	---	-
1-3/4	---	-	505151	25	---	-	---	-	---	-
2	---	-	505152	25	505161	25	---	-	---	-

*These items will be discontinued when stock is depleted.

TRUSS HEAD PHILLIPS SHEET METAL SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- Extra sharp point.
- Case hardened steel.
- Clean sharp threads.

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/2	505201	50	505207	50	---	-	505225	25
5/8	---	-	---	-	505217	50	---	-
3/4	505203	50	505209	50	505218	50	505227	25
7/8	505204	50	---	-	---	-	---	-
1	505205	50	505211	50	505220	50	---	-
1-1/4	---	-	505212	25	---	-	---	-
1-1/2	---	-	505213	25	505222	25	---	-

A15

HEX WASHER HEAD SLOTTED SHEET METAL SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- Deep slotted head.
- Clean sharp threads.
- Extra sharp point.
- Case hardened steel.

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14 (1/4)	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/8	505800	100	505805	100	---	-	---	-	---	-
1/2	505801	100	505806	100	505811	100	505817	100	505822*	100
5/8	505802	100	505807	100	505812	100	---	-	---	-
3/4	505803	100	505808	100	505813	100	505818	100	505823	100
1	505804	100	505809	100	505814	100	505819	100	505824	100
1-1/4	---	-	505810	100	505815	100	505820	100	505825*	100
1-1/2	---	-	505855	50	505816	100	505821	100	505826	100
2	---	-	505856	50	505828	50	505829	25	505827	25

*No slot.

Sizes: 6 x 3/8" through 14 x 1-1/2"
Part No. 501501
545 pieces • 20 items • 12071 steel tray

505800	505804	505808	505811	505816	505819	505824
505801	505805	505809	505813	505817	505821	505826
505803	505806	505810	505814	505818	505823	

Numbers in assortment

Sizes: 6 x 1/2" through 14 x 1-1/2"
Part No. 505850
209 pieces • 12 items • 12030 plastic tray

505801	505806	505810	505814	505818	505823
505803	505808	505812	505816	505821	505826

Numbers in assortment

HEX HEAD WITH LOOSE WASHERS (UNSLOTTED) SHEET METAL SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- Extra sharp point.
- Case hardened steel.
- Clean sharp threads.

	DIA. NO. 12		DIA. NO.14 (1/4")		DIA. 5/16"	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/4	505831	50	505835	50	505839	50
1	---	-	505836	50	505840	50
1-1/2	---	-	505838	50	505842	50

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SHEET METAL and THREAD CUTTING SCREWS

HEX HEAD UNSLOTTED SHEET METAL SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Extra sharp point.**
- **Case hardened steel.**
- **Clean sharp threads.**

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10		DIA. NO. 12		DIA. NO. 14 (1/4")		DIA. 5/16"		DIA. 3/8"	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/8	506350	100	506354	100	506361	100	---	-	---	-	---	-	---	-
1/2	506351	100	506355	100	506362	100	506368	50	506374	50	---	-	---	-
5/8	---	-	506356	100	506363	100	---	-	506375	50	---	-	---	-
3/4	506352	100	506357	100	506364	100	506369	50	506376	50	506382	25	506387	10
7/8	---	-	---	-	---	-	---	-	506377	25	---	-	---	-
1	506353	100	506358	50	506365	50	506370	50	506378	25	506383	10	506388	10
1-1/4	---	-	506359	50	506366	50	506371	25	506379	25	506384	10	506389	10
1-1/2	---	-	506360	50	506367	50	506372	25	506380	25	506385	10	506390	10
2	---	-	---	-	---	-	506373	25	506381	25	506386	10	506391	10

Part No. 501497
485 pieces • 23 items • 12017 steel tray

506355	506362	506366	506370	506376	506379	506383	506388
506357	506364	506368	506371	506377	506380	506384	506389
506358	506365	506369	506374	506378	506382	506387	

Numbers in assortment

Part No. 506005
175 pieces • 12 items • 12030 plastic tray

506355	506358	506369	506371	506376	506382
506357	506368	506370	506374	506378	506383

Numbers in assortment

4 HEAD STYLE SHEET METAL SCREW ASSORTMENT

- **Contains Slotted Pan, Slotted Oval, Phillips Pan and Phillips Oval head sheet metal screws.**
- **Sizes from 6 x 1/2" to 12 x 3/4".**
- **Lusterplated to resist rust.**
- **Deep slotted head.**
- **Extra sharp point.**
- **Case hardened steel.**
- **Clean sharp threads.**

Part No. 501458
840 pieces • 24 items • 12017 steel tray

SLOTTED PAN	PHILLIPS PAN	SLOTTED OVAL	PHILLIPS OVAL
6 x 3/4"	6 x 1/2"	6 x 3/4"	6 x 1/2"
8 x 1/2"	8 x 1/2"	8 x 1/2"	8 x 1/2"
8 x 3/4"	8 x 3/4"	8 x 1"	8 x 3/4"
10 x 3/4"	10 x 1/2"	10 x 1"	10 x 3/4"
10 x 1"	10 x 3/4"	12 x 3/4"	10 x 1"
12 x 3/4"	12 x 1/2"		12 x 3/4"

Numbers in assortment

3 HEAD STYLE SHEET METAL SCREW ASSORTMENT

- **Contains Slotted Pan, Slotted Oval and Hex head sheet metal screws.**
- **Sizes from 6 x 3/4" to 14 x 1".**
- **Lusterplated to resist rust.**
- **Deep slotted head.**
- **Extra sharp point.**
- **Case hardened steel.**
- **Clean sharp threads.**

Part No. 505005
290 pieces • 8 items • 12040 plastic tray

SLOTTED PAN	SLOTTED PAN	SLOTTED OVAL	SLOTTED OVAL	HEX HEAD	HEX HEAD
6 x 3/4"	10 x 1"	6 x 3/4"	10 x 1"	8 x 1/2"	14 x 1/2"
8 x 1/2"	12 x 3/4"	8 x 1/2"	12 x 3/4"	12 x 1/2"	14 x 3/4"
8 x 1"	14 x 3/4"	8 x 1"	14 x 3/4"	12 x 3/4"	14 x 1"

Numbers in assortment

HEX WASHER HEAD UNSLOTTED THREAD CUTTING SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Type "F" point.**
- **Case hardened steel.**
- **Cuts it's own threads.**

	DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 1/4-20		DIA. 5/16-18		DIA. 3/8-16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/4	506750	50	506755	50	---	-	---	-	---	-	---	-	---	-
3/8	506751	50	506756	50	506760	50	506764	50	---	-	---	-	---	-
1/2	506752	50	506757	50	506761	50	506765	50	506768	50	506774	25	---	-
3/4	506753	50	506758	50	506762	50	506766	50	506769	50	506775	25	506780	25
1	506754	50	506759	50	506763	50	506767	50	506770	50	506776	25	506781	25
1-1/4	---	-	---	-	---	-	---	-	506771	50	506777	25	506782	25
1-1/2	---	-	---	-	---	-	---	-	506772	50	506778	25	506783	25
2	---	-	---	-	---	-	---	-	506773	25	506779	25	506784	25

HEX HEAD UNSLOTTED THREAD CUTTING SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Type "F" point.**
- **Case hardened steel.**

	DIA. 10-24		DIA. 1/4-20		DIA. 5/16-18	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/8	505514	50	---	-	---	-
1/2	505515	50	505517	50	505520	50
3/4	505516	50	505518	50	---	-
1	---	-	505519	50	505521	50
1-1/2	---	-	---	-	505522	50

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THREAD CUTTING and THREAD ROLLING SCREWS

PAN HEAD PHILLIPS THREAD CUTTING SCREWS

- Type "F" point.
- Case hardened steel.
- Cuts it's own threads.

Protected by **LUSTERPLATE™** against rust & corrosion

LENGTH	DIA. 4-40 PART NUMBER	QTY	DIA. 6-32 PART NUMBER	QTY	DIA. 8-32 PART NUMBER	QTY	DIA. 10-24 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY	DIA. 1/4-20 PART NAME	QTY
1/4	506850	50	506853	50	506856	50	---	-	---	-	---	-
3/8	506851	50	506854	50	506857	50	506864	50	506871	50	506878	25
1/2	506852	50	506855	50	506858	50	506865	50	506872	50	506879	25
5/8	---	-	---	-	506859	50	506866	50	506873	50	506880	25
3/4	---	-	---	-	506860	50	506867	50	506874	50	506881	25
1	---	-	---	-	506861	50	506868	25	506875	25	506882	25
1-1/4	---	-	---	-	506862	50	506869	25	506876	25	506883	25
1-1/2	---	-	---	-	506863	50	506870	25	506877	25	506884	25
2	---	-	---	-	---	-	---	-	---	-	506885	25

Part No. 501031
710 pieces • 19 items
12071 steel tray

506850	506855	506864	506881
506851	506857	506865	506882
506852	506858	506867	506883
506853	506860	506868	506884
506854	506861	506879	

Numbers in assortment

PAN HEAD SLOTTED THREAD CUTTING SCREWS

- Type "F" point.
- Deep slotted head.
- Case hardened steel.

Protected by **LUSTERPLATE™** against rust & corrosion

LENGTH	DIA. 6-32 PART NUMBER	QTY	DIA. 8-32 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY	DIA. 10-24 PART NAME	QTY
3/8	505500	100	505503	100	505506	100	505510	100
1/2	505501	100	505504	100	505507	100	505511	100
3/4	505502	100	505505	100	505508	100	505512	100
1	---	-	---	-	505509	100	505513	100

Sizes: 6-32 x 1/2" through 10-32 x 1"
Part No. 505016
150 pieces • 6 items • 12035 plastic tray

505501 505504 505505 505507 505508 505509

Numbers in assortment

FLAT HEAD PHILLIPS THREAD CUTTING SCREWS

- Type "F" point.
- Case hardened steel.
- Cuts it's own threads.

Protected by **LUSTERPLATE™** against rust & corrosion

LENGTH	DIA. 4-40 PART NUMBER	QTY	DIA. 6-32 PART NUMBER	QTY	DIA. 8-32 PART NUMBER	QTY	DIA. 10-24 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY	DIA. 1/4-20 PART NAME	QTY
1/4	506800	50	---	-	---	-	---	-	---	-	---	-
3/8	506801	50	506803	50	506806	50	---	-	---	-	---	-
1/2	506802	50	506804	50	506807	50	506811	50	506817	50	506823	25
5/8	---	-	506805	50	506808	50	506812	50	506818	50	---	-
3/4	---	-	---	-	506809	50	506813	50	506819	50	506824	25
1	---	-	---	-	506810	50	506814	25	506820	25	506825	25
1-1/4	---	-	---	-	---	-	506815	25	506821	25	506826	25
1-1/2	---	-	---	-	---	-	506816	25	506822	25	506827	25
2	---	-	---	-	---	-	---	-	---	-	506828	10
2-1/2	---	-	---	-	---	-	---	-	---	-	506829	10
3	---	-	---	-	---	-	---	-	---	-	506830	10

Part No. 501032
520 pieces • 18 items
12071 steel tray

506800	506805	506811	506825
506801	506806	506813	506826
506802	506807	506814	506827
506803	506809	506823	
506804	506810	506824	

Numbers in assortment

HEX WASHER HEAD TRI-ROUNDULAR THREAD ROLLING SCREWS

Any high-vibration area on heavy equipment, agricultural equipment, automotive, trucks, etc.

- Tri-Roundular screws generate stronger mating threads with uninterrupted grain flow.
- The work-hardening method of thread forming induces greater strength in the internal threads.
- Resistance to loosening from vibration is superior to that of other thread-forming screws.
- The cost of taps and tapping equipment is eliminated.
- Driving torque is lower than other types of thread-forming screws and failure torque remains high.
- Prevailing torque often equals locking screw standards.
- Works in punched, drilled, cored and extruded holes in many different metals and alloys.
- Freely accepts standard machine screw in field service.
- Generates no cut chips that could contaminate the assembly.

LENGTH	DIA. 6-32 PART NUMBER	QTY	DIA. 8-32 PART NUMBER	QTY	DIA. 10-24 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY	DIA. 12-24 PART NUMBER	QTY	DIA. 1/4-20 PART NAME	QTY
1/4	506200	100	506204	100	506208	100	506212	100	---	-	---	-
3/8	506201	100	506205	100	506209	100	506213	100	506217	50	---	-
1/2	506202	100	506206	100	506210	100	506214	100	506218	50	506220	50
3/4	506203	100	506207	100	506211	100	506215	100	506219	50	506221	50
1	---	-	---	-	---	-	506216	50	---	-	506222	50
1-1/4	---	-	---	-	---	-	---	-	---	-	506223	25
1-1/2	---	-	---	-	---	-	---	-	---	-	506224	25

Tri-Roundular screws work like a tap...
The threads are formed in a pilot hole by the three vertexes that give the **Tri-Roundular** family it's name. It's a roll-forming process which displaces material rather than removing material. The work-hardened internal thread is stronger and more resistant to fatigue than cut threads.

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DRILL N' TAP SCREWS (TEKS®)

PAN HEAD PHILLIPS DRILL N' TAP SCREWS (TEKS®)

- Available zinc plated or black oxide.
- Drills and taps its own threads.
- Hardened steel point like a twist drill.
- High strength - heat treated steel.

	DIA. NO. 6 NO. 2 DRILL POINT					DIA. NO. 8 NO. 2 DRILL POINT					DIA. NO. 10 NO. 3 DRILL POINT				
LENGTH	PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	GRIP MAX	PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	GRIP MAX	PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	GRIP MAX
3/8	**215130**	50	**505745**	25	11/64	---	-	---	-	--	---	-	---	-	--
1/2	**215101**	100	**505746**	25	17/64	**215102**	100	**505790**	25	1/4	**215105***	100	**505793**	25	15/64
5/8	**215134**	50	**505747**	25	3/8	**215135**	50	**505796**	25	3/8	**215137**	50	**505799**	25	9/32
3/4	**215131**	50	**505748**	25	5/8	**215103**	100	**505791**	25	1/2	**215106**	100	**505794**	25	13/32
1	**215132**	50	**505749**	25	7/8	**215133**	50	**505792**	25	3/4	**215107**	50	**505795**	25	21/32
1-1/4	---	-	---	-	--	**215136**	50	**505797**	25	1	**215108**	50	---	-	29/32
1-1/2	---	-	---	-	--	**215104**	100	**505798**	25	1-1/4	**215109**	50	---	-	1-5/32

*** No. 2 drill point**

ZINC
Includes Part No. 114317 phillips power bit
Part No. 501625
1071 pieces • 18 items • 12071 steel tray

114317	215104	215108	215132	215136
215101	215105	215109	215133	215137
215102	215106	215130	215134	
215103	215107	215131	215135	

Numbers in assortment

BLACK OXIDE
Includes Part No. 114317 phillips power bit
Part No. 501626
591 pieces • 16 items • 12050 steel tray

114317	505748	505792	505796
505745	505749	505793	505797
505746	505790	505794	505798
505747	505791	505795	505799

Numbers in assortment

ZINC
Includes Part No. 114317 phillips power bit
Part No. 215100
120 pieces • 7 items
12028 plastic tray

114317	215102	215104	215106
215101	215103	215105	

Numbers in assortment

BUGLE HEAD PHILLIPS DRILL N' TAP SCREWS (TEKS®)

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

	DIA. NO. 6		DIA. NO. 7		DIA. NO. 8	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	**215110**	100	**215115**	100	---	-
1-1/8	**215111**	100	---	-	---	-
1-1/4	**215112**	100	**215116**	100	---	-
1-5/8	**215113**	100	**215117**	100	---	-
1-7/8	**215114**	100	**215118**	100	---	-
2-3/8	---	-	---	-	**215119**	50
2-5/8	---	-	---	-	**215120**	50
3	---	-	---	-	**215121**	50

HEX WASHER HEAD DRILL N' TAP SCREWS (TEKS®)

Ideal to drill, tap, and fasten in one operation, plywood composition board and laminates to metal, and metal to metal.

- Drills and taps it's own threads in materials up to 1/4" thick.
- Hardened steel point - like a twist drill.
- High strength - heat treated steel.
- Available zinc plated or black oxide.
- Used in place of welding, adhesives, riveting and using nuts and bolts.

ZINC
Part No. 53501
150 pieces • 6 items • 12028 plastic tray

SCREWS 8 x 1/2"	SCREWS 8 x 1"	SCREWS 8 x 1-1/2"
8 x 3/4"	8 x 1-1/4"	10 x 1/2"

Numbers in assortment

ZINC
Part No. 53503
150 pieces • 8 items • 12030 plastic tray

SCREWS 10 x 3/4"	SCREWS 10 x 1-1/4"	SCREWS 12 x 3/4"	SCREWS 12 x 1-1/4"
10 x 1"	10 x 1-1/2"	12 x 1"	12 x 1-1/2"

Numbers in assortment

ZINC
Part No. 53504
151 pieces • 9 items • 12030 plastic tray

HEX DRIVERS 5/16"	SCREWS 10 x 3/4"	SCREWS 10 x 1-1/4"	SCREWS 12 x 3/4"	SCREWS 12 x 1-1/4"
	10 x 1"	10 x 1-1/2"	12 x 1"	12 x 1-1/2"

Numbers in assortment

ZINC
Part No. 501390L
546 pieces • 21 items • 12071 steel tray

HEX DRIVERS 1/4"	SCREWS 8 x 1/2"	SCREWS 10 x 1/2"	SCREWS 12 x 3/4"	SCREWS 14 x 1"
5/16"	8 x 3/4"	10 x 3/4"	12 x 1"	14 x 1-1/4"
3/8"	8 x 1"	10 x 1"	12 x 1-1/4"	14 x 1-1/2"
	8 x 1-1/4"	10 x 1-1/4"	12 x 1-1/2"	
	8 x 1-1/2"	10 x 1-1/2"	14 x 3/4"	

1/2 QUANTITY AVAILABLE ORDER NO. 501390M
Numbers in assortment

BLACK OXIDE
Part No. 501585L
546 pieces • 21 items • 12071 steel tray

HEX DRIVERS 1/4"	SCREWS 8 x 1/2"	SCREWS 10 x 1/2"	SCREWS 12 x 3/4"	SCREWS 14 x 1"
5/16"	8 x 3/4"	10 x 3/4"	12 x 1"	14 x 1-1/4"
3/8"	8 x 1"	10 x 1"	12 x 1-1/4"	14 x 1-1/2"
	8 x 1-1/4"	10 x 1-1/4"	12 x 1-1/2"	
	8 x 1-1/2"	10 x 1-1/2"	14 x 3/4"	

1/2 QUANTITY AVAILABLE ORDER NO. 501585M
Numbers in assortment

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DRILL N' TAP SCREWS (TEKS®)

HEX WASHER HEAD DRILL N' TAP SCREWS (TEKS®)

	DIA. NO. 6 NO. 2 DRILL POINT					DIA. NO. 8 NO. 2 DRILL POINT					DIA. NO. 10 NO. 3 DRILL POINT				
LENGTH	PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	GRIP MAX	PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	GRIP MAX	PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	GRIP MAX
3/8	**53555**	50	---	-	9/64	---	-	---	-	--	---	-	---	-	--
1/2	**53556**	50	---	-	17/64	**53521**	100	**505780**	25	1/4	**53523†**	100	**505783†**	25	15/64
5/8	**53557**	50	---	-	25/64	---	-	---	-	--	---	-	---	-	--
3/4	**53558**	50	---	-	21/32	**53522**	100	**505781**	25	1/2	**53524**	100	**505784**	25	13/32
1	**53559**	50	---	-	49/64	**53529**	100	**505782**	25	3/4	**53532**	100	**505785**	25	21/32
1-1/4	---	-	---	-	--	**53530**	100	**505710***	25	1	**53533**	50	**505786**	25	29/32
1-1/2	---	-	---	-	--	**53531**	50	**505711***	25	1-1/4	**53534**	50	**505787**	25	1-5/32
1-3/4	---	-	---	-	--	---	-	**505712***	25	1-1/2	**53539**	50	**505788**	25	1-13/32
2	---	-	---	-	--	---	-	---	-	--	**53540**	50	**505789**	25	1-21/32

1/4" hex driver
Part No. 53510

5/16" hex driver
Part No. 53511

*** No. 3 drill point**

† No. 2 drill point

	DIA. NO. 12 NO. 3 DRILL POINT					DIA. NO. 14 NO. 3 DRILL POINT				
LENGTH	PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	GRIP MAX	PART NUMBER ZINC	QTY	PART NUMBER BLACK	QTY	GRIP MAX
3/4	**53525**	100	**505713**	25	23/64	**53535**	100	**505719**	25	19/64
1	**53526**	100	**505714**	25	5/16	**53536**	100	**505720**	25	35/64
1-1/4	**53527**	50	**505715**	25	53/64	**53537**	50	**505721**	25	51/64
1-1/2	**53528**	50	**505716**	25	1-5/64	**53538**	50	**505722**	25	1-5/64
1-3/4	**53541**	50	**505767**	25	1-21/64	**53543**	50	**505723**	25	1-21/64
2	**53542**	50	**505718**	25	1-37/64	**53544**	50	**505724**	25	1-37/63
2-1/2	**53550**	25	---	-	2-17/64	**53552**	25	---	-	2-7/32
3	**53551**	25	---	-	2-45/64	**53553**	25	---	-	2-5/8
4	---	-	---	-	--	**53554**	25	---	-	3-5/8

5/16" hex driver
Part No. 53511

3/8" hex driver
Part No. 53512

† No. 2 drill point

A15

HEX SERRATED WASHER HEAD DRILL N' TAP SCREWS (TEKS®)

SIZE DIA.xTHRDxLENGTH	PART NUMBER	DRILL POINT	GRIP MAX
10-24 x 5/8	**505960**	2	13/64
10-16 x 3/4	**505961**	3	5/16
1/4-14 x 3/4	**505962**	3	1/4
1/4-14 x 1	**505963**	3	1/2

5/16" hex driver
Part No. 53511

- **Vibration resistant.**
- **Used on overhead steel doors, hinges, latches, HVAC systems.**
- **Zinc plated.**

HEX WASHER HEAD SELF-SEALING DRILL N' TAP SCREWS (TEKS®)

- **EDPM rubber gasket bonded to a galvanized steel washer.**
- **Prevents leaks from point of hole.**
- **5/8" OD washer, No. 3 drill point.**

Protected by
LUSTERPLATE™
against rust & corrosion

	DIA. NO. 10			DIA. NO. 12			DIA. NO. 14		
LENGTH	PART NUMBER	GRIP MAX	QTY	PART NUMBER	GRIP MAX	QTY	PART NUMBER	GRIP MAX	QTY
3/4	**53545**	9/32	100	**53546**	13/64	100	**53548**	19/64	100
1	---		-	**53547**	29/64	100	**53549**	5/16	100

5/16" hex driver
Part No. 53511

5/16" hex driver
Part No. 53511

3/8" hex driver
Part No. 53512

Part No. 53506
95 pieces • 5 items
12028 plastic tray

53545 53546 53547 53548 53549

Numbers in assortment

MAGNETIC HEX DRIVERS

SIZE	PART NUMBER
1/4	**53510**
5/16	**53511**
3/8	**53512**

- **Fits all 1/4" drills and impact guns with 1/4" socket.**
- **1-3/4" length.**

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DRILL N' TAP SCREWS (TEKS®) and DRILL POINT SCREWS

ROCK-ON FLAT PHILLIPS DRILL N' TAP SCREWS (TEKS®)

HIGH PERFORMANCE RIB HEAD DESIGN!!!

- **Rib design under head countersinks into dense material while preventing stripouts.**
- **Two point types for steel and wood applications.**
- **Larger head diameter increases board surface contact for greater pullover resistance.**
- **#8 fastener has self-drilling point and standard thread.**
- **#9 fastener has pointed tip and dual-spaced thread.**
- **Head designed to countersink into any high-density panel, including cement board, tile backer board and plywood.**
- **Thread design provides improved pull-out resistance.**

Protected by
CLIMACOAT
against rust & corrosion

Cement-type boards steel any dense sheathings to steel or wood studs.

Wire lath to steel or wood studs.

Plywood to steel or wood studs.

Brick ties to or or wood studs.

HI-LO® PART NO.	DIA.xLENGTH	MATERIAL ATTACHMENT RANGE	APPLICATIONS
505985*	9 x 1-1/4	Up to 3/4" material thickness to wood; 3/8"-1" material thickness to steel	Cements board to wood or light gauge steel 26-20 gauge
505986	9 x 1-5/8	Up to 1-1/8" material thickness to wood; 3/8"-1-3/8" material thickness to steel	
505987	9 x 2-1/4	Up to 1-3/4" material thickness to wood; 1" to 1-7/8" material thickness to steel	

TEK® PART NO.	DIA.xLENGTH	MATERIAL ATTACHMENT RANGE	APPLICATIONS
505980*	8 x 1-1/4	3/8" to 3/4" material thickness	Cements board to steel studs 20-12 gauge
505981	8 x 1-5/8	3/8" to 1-1/4" material thickness	
505982	8 x 2-1/4	1" to 1-7/8" material thickness	

*** Fully threaded.**

WALL LINER TORX® DRILL N' TAP SCREWS (TEKS®)

Protected by
LUSTERPLATE™
against rust & corrosion

DESIGNED EXCLUSIVELY FOR TRAILER AND CONTAINER APPLICATIONS.

- **Torx® drive provides non-slip installation.**
- **Larger wafer head style resists pullout.**
- **Countersinks below plywood surface.**
- **No pre-drilling necessary with Tek point.**
- **Fast and easy one step installation.**
- **Use T-25 torx driver.**

SIZE DIA.xTHRDxLNGTH	PART NUMBER
10-16 x 1	**505970**
10-16 x 1-1/4	**505971**

HEX WASHER HEAD SLOTTED DRILL POINT SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Unique drill point speeds penetration and eliminates walking. No need to center punch.**
- **Hardened steel point — drills its own hole.**
- **Sharp threads prevent over-enlarging hole.**

Includes Part No. 53510 1/4" hex driver

Part No. 53505
201 pieces • 6 items
12032 plastic tray

53510	**53517**	**53519**
53516	**53518**	**53520**

Numbers in assortment

	DIA. NO. 6		DIA. NO. 7		DIA. NO. 8		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	**53516**	200	**---**	-	**---**	-	**---**	-
1/2	**---**	-	**53517**	200	**53518**	200	**53519**	200
3/4	**---**	-	**---**	-	**---**	-	**53520**	200
	1/4" hex driver **Part No. 53510**		1/4" hex driver **Part No. 53510**		1/4" hex driver **Part No. 53510**		5/16" hex driver **Part No. 53511**	

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WINGED SELF-DRILLERS and STEEL MACHINE SCREWS

WINGED SELF-DRILLERS

These incredible screws make fastening wood to metal a breeze!

- **No pre-drilling - unique winged design drills as it drives.**
- **Wafer or flat head styles.**
- **Drills up to 1/4" steel.**
- **For any wood to metal applications.**
- **Made in the USA.**

Protec-Coatx20® Has up to 20 times the corrosion resistance of zinc. Superior protection for outdoors.

PART NUMBER	QTY	SIZE	HEAD STYLE	POINT	TOTAL MATERIAL ATTACHMENT RANGE	DRILLING CAPACITY
53561	100	10-24 x 1-1/4	Phillip wafer	T3**	1/8 - 3/4	.036 - .175
53562	100	10-16 x 1-7/16	Phillip wafer	T3*	1/8 - 1	.036 - .175
53563	50	12-14 x 2	Phillip flat	T4*	3/4 - 1-1/2	.125 - .250
53564	50	12-14 x 2-1/2	Phillip flat	T4*	3/4 - 1-3/4	.125 - .250
53565	50	1/4-14 x 3	Phillip flat	T4*	3/4 - 2-1/2	.125 - .250

***Wings break off in 18 gauge to 1/4 inch steel.**
****No wings, zinc finish.**

Drill tip and wings ream the wood.

Drill tip begins to drill the metal surface.

As the tip drills into the metal, the wings snap off.

Threads pull the wood and metal securely together.

FLAT HEAD SLOTTED STEEL MACHINE SCREWS

- **Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.**
- **Deep slotted head. Precision rolled Class 2A threads.**

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. 4-40		DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 12-24		DIA. 1/4-20		DIA. 5/16-18	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
1/4	**505525**	200	**505531**	200	**505544**	200	**505372**	200	**505381**	200	---	-	---	-	---	-
3/8	**505526**	200	**505532**	200	**505545**	200	**505413**	200	**505416**	200	---	-	**505424**	200	---	-
1/2	**505527**	200	**505533**	200	**505546**	200	**505373**	200	**505382**	200	**505387**	200	**505391**	200	**505430**	100
3/4	**505529**	200	**505535**	200	**505548**	200	**505374**	200	**505383**	200	**505388**	200	**505392**	200	**505399**	100
1	**505530**	200	**505537**	200	**505550**	200	**505375**	200	**505384**	200	**505389**	200	**505393**	200	**505400**	100
1-1/4	---	-	**505538**	200	**505551**	200	**505376**	200	**505385**	200	**505390**	100	**505394**	100	**505431**	50
1-1/2	---	-	**505539**	200	**505552**	200	**505377**	200	**505417**	200	**505422**	50	**505395**	100	**505401**	50
1-3/4	---	-	---	-	**505412**	200	**505414**	100	**505418**	100	---	-	**505425**	200	---	-
2	---	-	**505540**	200	**505553**	100	**505378**	100	**505419**	50	**505423**	50	**505396**	100	**505402**	50
2-1/4	---	-	**505410**	50	---	-	---	-	---	-	---	-	**505426**	100	---	-
2-1/2	---	-	**505411**	50	**505554**	100	**505379**	100	**505420**	50	---	-	**505397**	100	**505403**	50
2-3/4	---	-	---	-	---	-	---	-	---	-	---	-	**505427**	50	---	-
3	---	-	---	-	**505555**	100	**505380**	100	**505421**	50	---	-	**505398**	50	**505404**	50
3-1/2	---	-	---	-	---	-	---	-	---	-	---	-	**505428**	25	**505432**	25
4	---	-	---	-	---	-	**505415**	50	---	-	---	-	**505429**	25	**505433**	25

	DIA. 3/8-16	
LENGTH	PART NUMBER	QTY
3/4	**505405**	50
1	**505406**	50
1-1/4	**505407**	50
1-1/2	**505434**	50
2	**505408**	50
2-1/2	**505409**	40
3	**505435**	10
3-1/2	**505436**	10
4	**505437**	10

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Part No. 505015
220 pieces • 12 items
12027 plastic tray

505373	505377	505395	505527	505537	505550
505375	505393	505396	505533	505546	505552

Numbers in assortment

Sizes: 4-40 x 1/4" through 1/4-20 x 2"
Includes hex nuts
Part No. 501496
2050 pieces • 24 items • 12017 steel tray

51122	51128	505377	505395	505529	505546
51123	505373	505391	505396	505533	505548
51125	505374	505392	505525	505535	505550
51127	505375	505393	505527	505537	505552

Numbers in assortment

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STEEL MACHINE SCREWS

FLAT HEAD PHILLIPS STEEL MACHINE SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.**
- **Precision rolled Class 2A threads.**

	DIA. 4-40		DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	405300	100	405305	100	405312	100	---	-	---	-	---	-
3/8	405301	100	405306	100	405313	100	405320	100	405327	100	---	-
1/2	405302	100	405307	100	405314	100	405321	100	405328	100	405334	100
5/8	405303	100	405308	100	405315	100	405322	100	405329	100	---	-
3/4	405304	100	405309	100	405316	100	405323	100	405330	100	405335	100
1	---	-	405310	100	405317	100	405324	100	405331	100	405336	100
1-1/4	---	-	405311	100	405318	100	405325	100	405332	100	405337	100
1-1/2	---	-	---	-	405319	100	405326	100	405333	100	405338	100
2	---	-	---	-	---	-	---	-	---	-	405339	100

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Part No. 405202
220 pieces • 12 items • 12027 plastic tray

405302	405310	405317	405321	405326	405338
405307	405314	405319	405324	405336	405339

Numbers in assortment

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501492
1610 pieces • 24 items • 12017 steel tray

51122	51127	405303	405309	405316	405321	405326	405336
51123	51128	405304	405310	405317	405323	405334	405338
51125	405302	405307	405314	405319	405324	405335	405339

Numbers in assortment

OVAL HEAD PHILLIPS STEEL MACHINE SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.**
- **Precision rolled Class 2A threads.**

	DIA. 4-40		DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 12-24		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	405400	50	---	-	405412	25	---	-	---	-	---	-	---	-
3/8	405401	50	405406	50	405413	25	405420	25	405427	25	405434	25	---	-
1/2	405402	50	405407	50	405414	25	405421	25	405428	25	405435	25	405439	25
5/8	405403	50	405408	25	405415	25	---	-	---	-	---	-	---	-
3/4	405404	50	405409	25	405416	25	405422	25	405429	25	405436	25	405440	25
1	405405	50	405410	25	405417	25	405423	25	405430	25	405437	25	405441	25
1-1/4	---	-	405411	25	405418	25	405424	25	405431	25	405438	25	405442	25
1-1/2	---	-	---	-	405419	25	405425	25	405432	25	---	-	405443	25
2	---	-	---	-	---	-	405426	25	405433	25	---	-	405444	25
2-1/2	---	-	---	-	---	-	---	-	---	-	---	-	405445	25

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Part No. 405001
220 pieces • 12 items • 12027 plastic tray

405402	405410	405417	405421	405425	405443
405407	405414	405419	405423	405441	405445

Numbers in assortment

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501489
1610 pieces • 24 items • 12017 steel tray

51122	51127	405404	405409	405416	405421	405425	405441
51123	51128	405405	405410	405417	405422	405439	405443
51125	405402	405407	405414	405419	405423	405440	405444

Numbers in assortment

ROUND HEAD COMBINATION STEEL MACHINE SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- **All-in-one slotted and phillips head for more versatility.**
- **Precision rolled Class 2A threads.**

Sizes: 6-32 x 1/2" through 1/4-20 x 1-1/2"
Includes hex nuts
Part No. 501018
1725 pieces • 24 items • 12017 steel tray

51122	51127	506708	506716	506722	506728
51123	506701	506709	506717	506723	506729
51124	506702	506710	506718	506724	506730
51125	506703	506712	506719	506725	506732

Numbers in assortment

	DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	---	-	506707	100	---	-	506721	50	506727	25
1/2	506701	100	506708	100	506716	50	506722	50	506728	25
3/4	506702	100	506709	100	506717	50	506723	50	506729	25
1	506703	100	506710	100	506718	50	506724	50	506730	25
1-1/4	506704	100	506711	100	---	-	---	-	506731	25
1-1/2	506705	100	506712	50	506719	50	506725	50	506732	25
2	506706	50	506713	50	506720	25	506726	25	506733	25
2-1/2	---	-	506714	50	---	-	---	-	506734	25
3	---	-	506715	25	---	-	---	-	506735	25

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STEEL MACHINE SCREWS

ROUND HEAD SLOTTED STEEL MACHINE SCREWS

- Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.
- Precision rolled Class 2A threads.

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. 4-40		DIA. 5-40		DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 12-24		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NAME	QTY
3/16	---	-	505451	100	---	-	---	-	---	-	---	-	---	-	---	-
1/4	505311	200	505452	100	505316	200	505324	200	505334	200	505343	200	505348	200	---	-
3/8	505312	200	505453	100	505317	200	505325	200	505467	200	505474	200	505482	200	505487	200
1/2	505313	200	505454	100	505318	200	505326	200	505335	200	505344	200	505349	200	505353	200
5/8	---	-	505455	100	505456	200	505462	200	505468	200	505475	200	505483	200	505488	200
3/4	505314	200	---	-	505319	200	505327	200	505336	200	505345	200	505350	200	505354	200
7/8	505450	200	---	-	505457	200	505463	200	505469	200	505476	200	---	-	---	-
1	505315	200	---	-	505320	200	505328	200	505337	200	505346	200	505351	200	505355	200
1-1/4	---	-	---	-	505321	200	505329	200	505338	200	505347	200	505352	100	505356	100
1-1/2	---	-	---	-	505322	200	505330	200	505339	200	505477	100	505484	50	505357	100
1-3/4	---	-	---	-	505458	200	505464	200	505470	200	505478	100	505485	50	505489	100
2	---	-	---	-	505323	200	505331	200	505340	100	505479	50	505486	50	505358	100
2-1/4	---	-	---	-	505459	50	505465	50	505471	100	---	-	---	-	505490	100
2-1/2	---	-	---	-	505460	50	505332	50	505341	100	505480	50	---	-	505359	100
2-3/4	---	-	---	-	---	-	---	-	505472	100	---	-	---	-	505491	50
3	---	-	---	-	505461	50	505333	50	505342	100	505481	50	---	-	505360	50
3-1/2	---	-	---	-	---	-	---	-	---	-	---	-	---	-	505492	50
4	---	-	---	-	---	-	505466	50	505473	25	---	-	---	-	505307	50

	DIA. 5/16-18		DIA. 3/8-16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY
3/8	---	-	---	-
1/2	505493	100	---	-
5/8	505494	100	---	-
3/4	505361	100	505367	50
1	505362	100	505368	50
1-1/4	505495	50	---	-
1-1/2	505363	50	505369	50
1-3/4	---	-	---	-
2	505364	50	505370	50
2-1/4	---	-	---	-
2-1/2	505365	50	505371	40
2-3/4	---	-	---	-
3	505366	50	505309	40
3-1/2	505496	50	505497	40
4	505308	50	505310	30

SMALL DIAMETER
Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 505006
179 pieces • 12 items
12027 plastic tray

505313	505328	505339
505318	505330	505355
505320	505335	505357
505326	505337	505358

Numbers in assortment

SMALL DIAMETER
Sizes: 4-40 x 1/4" through 1/4-20 x 1/2"
Includes hex nuts
Part No. 501020
736 pieces • 24 items • 12017 steel tray

51122	51126	505311	505319	505327	505344	505347	505350
51123	51127	505316	505324	505328	505345	505348	505351
51124	51128	505318	505326	505343	505346	505349	505353

Numbers in assortment

LARGE DIAMETER
Sizes: 10-24 x 1/2" through 3/8-16 x 4"
Includes hex nuts
Part No. 501067
353 pieces • 24 items • 12017 steel tray

51125	51131	505309	505337	505342	505358	505363	505368
51127	505307	505310	505339	505354	505360	505364	505369
51130	505308	505335	505340	505357	505362	505366	505370

Numbers in assortment

ROUND HEAD PHILLIPS STEEL MACHINE SCREWS

- Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.
- Precision rolled Class 2A threads.

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. 4-40		DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	405210	100	405215	100	405222	100	---	-	---	-	---	-
3/8	405211	100	405216	100	405223	100	405230	100	405237	100	---	-
1/2	405212	100	405217	100	405224	100	405231	100	405238	100	405244	100
5/8	405213	100	405218	100	405225	100	405232	100	405239	100	---	-
3/4	405214	100	405219	100	405226	100	405233	100	405240	100	405245	100
1	---	-	405220	100	405227	100	405234	100	405241	100	405246	100
1-1/4	---	-	405221	100	405228	100	405235	100	405242	100	405247	100
1-1/2	---	-	---	-	405229	100	405236	100	405243	100	405248	100
2	---	-	---	-	---	-	---	-	---	-	405249	100

Sizes: 4-40 x 1/4" through 1/4-20 x 1-1/4"
Includes hex nuts
Part No. 501500
920 pieces • 24 items • 12017 steel tray

51122	51125	405210	405219	405226	405233	405238	405242
51123	51127	405215	405222	405227	405234	405240	405246
51124	51128	405217	405224	405231	405235	405241	405247

Numbers in assortment

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STEEL MACHINE SCREWS

PAN HEAD SLOTTED STEEL MACHINE SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.**
- **Precision rolled Class 2A threads.**

	DIA. 4-40		DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 1/4-20		DIA. 5/16-18	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	506400	50	506410	50	506423	50	506437	50	506451	50	506464	50	---	-
5/16	506401	50	506411	50	506424	50	506438	50	506452	50	---	-	---	-
3/8	506402	50	506412	50	506425	50	506439	50	506453	50	506465	50	---	-
1/2	506403	50	506413	50	506426	50	506440	50	506454	50	506466	50	506479	10
5/8	506404	50	506414	50	506427	50	506441	50	506455	50	506467	50	506480	10
3/4	506405	50	506415	50	506428	50	506442	50	506456	50	506468	50	506481	10
7/8	506406	50	506416	50	506429	50	506443	50	506457	50	506469	50	---	-
1	506407	50	506417	50	506430	50	506444	50	506458	50	506470	50	506482	10
1-1/4	506408	50	506418	50	506431	50	506445	50	506459	50	506471	50	506483	10
1-1/2	506409	50	506419	50	506432	50	506446	50	506460	50	506472	50	506484	10
1-3/4	---	-	506420	50	506433	50	506447	25	506461	25	506473	25	---	-
2	---	-	506421	50	506434	50	506448	25	506462	25	506474	25	506485	10
2-1/4	---	-	---	-	---	-	---	-	---	-	506475	25	---	-
2-1/2	---	-	---	-	506435	25	506449	25	506463	25	506476	25	---	-
3	---	-	506422	25	506436	25	506450	25	---	-	506477	25	---	-
4	---	-	---	-	---	-	---	-	---	-	506478	10	---	-

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Part No. 506004
220 pieces • 12 items • 12027 plastic tray

506403	506417	506430	506440	506446	506472
506413	506426	506432	506444	506470	506474

Numbers in assortment

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501493
2050 pieces • 24 items • 12017 steel tray

51122	51127	506405	506415	506428	506440	506446	506470
51123	51128	506407	506417	506430	506442	506466	506472
51125	506403	506413	506426	506432	506444	506468	506474

Numbers in assortment

PAN HEAD TORX® STEEL MACHINE SCREWS

Torx® Drive Saves Time and Money

- **Reduces camout.**
- **Reduces need for excessive end load force.**
- **Extends tool life.**
- **15 degree drive angle.**
- **Reduces worker fatigue.**
- **Reduces rework and scrap.**
- **Reduces radial forces which damage tools & fastener.**
- **Straight vertical sidewalls.**

Part No. 501696
695 pieces • 20 items
12017 steel tray

507425	507430	507435	507440
507426	507431	507436	507441
507427	507432	507437	507442
507428	507433	507438	507443
507429	507434	507439	507444

Numbers in assortment

	DIA. 4-40		DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	507425	50	507429	50	507433	50	---	-	---	-
5/16	507426	50	---	-	---	-	---	-	---	-
3/8	507427	50	507430	50	507434	50	507437	50	507441	50
1/2	507428	50	507431	50	507435	50	507438	50	507442	50
3/4	---	-	507432	50	507436	50	507439	50	507443	50
1	---	-	---	-	---	-	507440	50	507444	50

PAN HEAD PHILLIPS STEEL MACHINE SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.**
- **Precision rolled Class 2A threads.**

	DIA. 4-40		DIA. 6-32		DIA. 8-32		DIA. 10-24		DIA. 10-32		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	405250	100	405255	100	405262	100	---	-	---	-	---	-
3/8	405251	100	405256	100	405263	100	405270	100	405277	100	405197	100
1/2	405252	100	405257	100	405264	100	405271	100	405278	100	405284	100
5/8	405253	100	405258	100	405265	100	405272	100	405279	100	---	-
3/4	405254	100	405259	100	405266	100	405273	100	405280	100	405285	100
7/8	405186	100	405188	100	405190	100	405191	100	405194	100	---	-
1	405187	100	405260	100	405267	100	405274	100	405281	100	405286	100
1-1/4	---	-	405261	100	405268	100	405275	100	405282	100	405287	100
1-1/2	---	-	405189	50	405269	100	405276	100	405283	100	405288	100
1-3/4	---	-	---	-	---	-	405192	50	405195	50	405198	50
2	---	-	---	-	---	-	405193	50	405196	50	405289	50
2-1/2	---	-	---	-	---	-	---	-	---	-	405199	50

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Part No. 405201
220 pieces • 12 items • 12027 plastic tray

405252	405260	405267	405271	405276	405288
405257	405264	405269	405274	405286	405289

Numbers in assortment

Sizes: 4-40 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501494
2050 pieces • 24 items • 12017 steel tray

51122	51127	405252	405259	405266	405271	405276	405286
51123	51128	405254	405260	405267	405273	405284	405288
51125	405187	405257	405264	405269	405274	405285	405289

Numbers in assortment

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STEEL MACHINE SCREWS

TRUSS HEAD SLOTTED STEEL MACHINE SCREWS

- Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.
- Deep slotted head.
- Precision rolled Class 2A threads.

Protected by **LUSTERPLATE™** against rust & corrosion

LENGTH	DIA. 6-32 PART NUMBER	QTY	DIA. 8-32 PART NUMBER	QTY	DIA. 10-24 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY	DIA. 1/4-20 PART NUMBER	QTY	DIA. 5/16-18 PART NUMBER	QTY
1/4	405450	100	405456	100	---	-	---	-	---	-	---	-
3/8	405451	100	405457	100	405463	100	405469	100	405475	50	---	-
1/2	405452	100	405458	100	405464	100	405470	100	405476	50	---	-
5/8	405453	100	405459	100	405465	100	405471	100	405487	50	---	-
3/4	405454	100	405460	100	405466	100	405472	100	405477	50	405483	10
1	405455	100	405461	100	405467	50	405473	50	405478	50	405484	10
1-1/4	---	-	405462	50	405468	50	405474	50	405479	25	---	-
1-1/2	---	-	---	-	---	-	---	-	405480	25	405485	10
2	---	-	---	-	---	-	---	-	405481	25	405486	10
2-1/2	---	-	---	-	---	-	---	-	405482	25	---	-

Sizes: 6-32 x 1/4" through 1/4-20 x 1"
Part No. 405003
155 pieces • 11 items • 12030 plastic tray

405378	405452	405458	405461	405466	405477
405450	405456	405460	405464	405467	

Numbers in assortment

Sizes: 6-32 x 1/2" through 1/4-20 x 2"
Includes hex nuts
Part No. 501502
1620 pieces • 24 items • 12017 steel tray

51122	51125	405454	405460	405464	405468	405473	405478
51123	51127	405455	405461	405466	405470	405476	405480
51124	405450	405458	405462	405467	405472	405477	405481

Numbers in assortment

TRUSS HEAD PHILLIPS STEEL MACHINE SCREWS

- Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.
- Precision rolled Class 2A threads.

Protected by **LUSTERPLATE™** against rust & corrosion

LENGTH	DIA. 6-32 PART NUMBER	QTY	DIA. 8-32 PART NUMBER	QTY	DIA. 10-24 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY	DIA. 1/4-20 PART NUMBER	QTY
1/4	405350	50	405358	50	---	-	---	-	---	-
3/8	405351	50	405359	50	405366	50	405374	50	405381	25
1/2	405352	50	405360	50	405367	50	405375	50	405382	25
5/8	405353	50	405361	50	405368	50	405376	50	405383	25
3/4	405354	50	405362	50	405369	50	405377	50	405384	25
1	405355	50	405363	25	405370	25	405378	25	405385	25
1-1/4	405356	50	405364	25	405371	25	405379	25	405386	25
1-1/2	405357	50	405365	25	405372	25	405380	25	405387	25
2	---	-	---	-	405373	25	---	-	405388	25
2-1/2	---	-	---	-	---	-	---	-	405389	25

Sizes: 6-32 x 1/2" through 1/4-20 x 1-1/2"
Part No. 405002
155 pieces • 11 items • 12030 plastic tray

405350	405358	405362	405367	405370	405385
405352	405360	405363	405369	405384	

Numbers in assortment

Sizes: 6-32 x 1" through 1/4-20 x 2"
Includes hex nuts
Part No. 501495
1620 pieces • 24 items • 12017 steel tray

51122	51125	405354	405362	405367	405372	405378	405385
51123	51127	405355	405363	405369	405375	405382	405387
51124	405352	405360	405365	405370	405377	405384	405388

Numbers in assortment

FILLISTER HEAD SLOTTED STEEL MACHINE SCREWS

- Deep slotted heads.
- Precision rolled Class 2A threads.
- Conforms to ANSI B18.6.3 and SAE J82(J478) specifications.

Protected by **LUSTERPLATE™** against rust & corrosion

LENGTH	DIA. 4-40 PART NUMBER	QTY	DIA. 6-32 PART NUMBER	QTY	DIA. 8-32 PART NUMBER	QTY	DIA. 10-24 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY	DIA. 1/4-20 PART NUMBER	QTY
1/4	505601	100	505605	100	505611	100	---	-	---	-	---	-
3/8	505602	100	505606	100	505612	100	505619	100	505626	100	---	-
1/2	505603	100	505607	100	505613	100	505620	100	505627	100	505633	100
3/4	505604	100	505608	100	505614	100	505621	100	505628	100	505634	100
1	---	-	505609	100	505615	100	505622	100	505629	100	505635	100
1-1/4	---	-	505610	100	505616	100	505623	100	505630	100	505636	100
1-1/2	---	-	---	-	505617	100	505624	100	505631	100	505637	100
2	---	-	---	-	505618	100	505625	100	505632	100	---	-

Sizes: 4-40 x 1/2" through 1/4-20 x 1-1/2"
Part No. 505019
220 pieces • 12 items
12027 plastic tray

505603	505613	505620	505635
505607	505615	505622	505636
505609	505617	505624	505637

Numbers in assortment

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STEEL MACHINE, THUMB and LAG SCREWS

HEX HEAD UNSLOTTED STEEL MACHINE SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- Conforms to ANSI B18.6.3 and SAE (J478) specifications.
- Precision rolled Class 2A threads.

Sizes: 6-32 x 1/4" through 10-32 x 1"
Part No. 505021
155 pieces • 11 items • 12030 plastic tray

505575	505579	505584	505588	505591	505594
505578	505582	505586	505589	505593	

Numbers in assortment

LENGTH	DIA. 6-32 PART NUMBER	QTY	DIA. 8-32 PART NUMBER	QTY	DIA. 10-24 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY
1/4	505575	100	505579	100	---	-	---	-
5/16	505576	100	505580	100	---	-	---	-
3/8	505577	100	505581	100	505585	100	505590	100
1/2	505578	100	505582	100	505586	100	505591	100
5/8	---	-	505583	100	505587	100	505592	100
3/4	---	-	505584	100	505588	100	505593	100
1	---	-	---	-	505589	100	505594	100

PHILLIPS HEAD STEEL MACHINE SCREW ASSORTMENT

- Contains the most popular sizes.
- Includes 3 styles of Phillips: Round, Pan and Flat head screws.
- Also includes hex nuts.
- Refills found on page A15-11 to 13.
- Comes in a sturdy steel tray which fits into both the 12007 and 12019 slide rack, part of our complete line of storage cabinets.

Sizes: 6-32 x 3/4" through 1/4-20 x 2"
Includes hex nuts
Part No. 405203 • 1173 pieces • 31 items • 12062 steel tray

HEX NUTS	PHILLIPS ROUND	PHILLIPS ROUND	PHILLIPS PAN	PHILLIPS PAN	PHILLIPS FLAT	PHILLIPS FLAT
6-32	6-32 x 3/4"	10-24 x 1-1/2"	6-32 x 3/4"	10-24 x 1-1/2"	6-32 x 3/4"	10-24 x 1-1/2"
8-32	8-32 x 1/2"	1/4-20 x 1"	8-32 x 1/2"	1/4-20 x 1"	8-32 x 1/2"	1/4-20 x 1"
10-24	8-32 x 1"	1/4-20 x 1-1/2"	8-32 x 1"	1/4-20 x 1-1/2"	8-32 x 1"	1/4-20 x 1-1/2"
1/4-20	10-24 x 3/4"	1/4-20 x 2"	10-24 x 3/4"	1/4-20 x 2"	10-24 x 3/4"	1/4-20 x 2"
	10-24 x 1"		10-24 x 1"		10-24 x 1"	

Numbers in assortment

A15

THUMB SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

Perfect for applications that require hand tightening.

- High quality steel.
- Precision rolled threads.
- Available with shoulder (Type S) or without shoulder (Type P).
- Flattened head for easy grip.
- Shoulder type provides larger bearing surface.

LENGTH	DIA. 10-24 PART NUMBER TYPE "P"	TYPE "S"	QTY	DIA. 10-32 PART NUMBER TYPE "P"	TYPE "S"	QTY	DIA. 1/4-20 PART NUMBER TYPE "P"	TYPE "S"	QTY	DIA. 5/16-18 PART NUMBER TYPE "P"	TYPE "S"	QTY	DIA. 3/8-16 PART NUMBER TYPE "P"	TYPE "S"	QTY
1/2	505650	505675	25	505651	505676	25	505652	505677	25	---	---	-	---	---	-
3/4	---	---	-	---	---	-	505653	505678	25	505657	505682	25	505661	505686	10
1	---	---	-	---	---	-	505654	505679	25	505658	505683	25	505662	505687	10
1-1/2	---	---	-	---	---	-	505655	505680	25	505659	505684	25	505663	505688	10
2	---	---	-	---	---	-	505656	505681	25	505660	505685	10	505664	505689	10

HEX HEAD LAG SCREWS

Protected by **LUSTERPLATE™** against rust & corrosion

- Sharp gimlet point.
- Low carbon steel.
- Clean sharp burr free threads.

LENGTH	DIA. 1/4 PART NUMBER	QTY	DIA. 5/16 PART NUMBER	QTY	DIA. 3/8 PART NUMBER	QTY	DIA. 1/2 PART NUMBER	QTY
1	53375	50	53379	50	53384	25	---	-
1-1/4	53801	50	---	-	---	-	---	-
1-1/2	53376	50	53380	50	53385	25	53389	25
1-3/4	---	-	53805	50	---	-	---	-
2	53377	50	53381	50	53386	25	53390	25
2-1/2	53802	25	53806	25	53808	25	53812	25
3	53378	25	53382	25	53387	25	53391	25
3-1/2	53803	25	53807	25	53809	25	53813	25
4	53804	25	53383	25	53388	25	53392	25
4-1/2	53817	25	53821	25	53810	10	53814	10
5	53818	25	53822	25	53811	10	53815	10
5-1/2	53819	25	53823	10	53825	10	53829	10
6	53820	25	53824	10	53826	10	53816	10
7	---	-	---	-	53827	10	53830	10
8	---	-	---	-	53828	10	53831	10
10	---	-	---	-	---	-	53832	10

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LAG and WOOD SCREWS

GALVANIZED HEX HEAD LAG SCREWS

- Hot dipped galvanized for superior resistance to corrosion.
- Highly recommended for exterior use.
- Ideal for any wood installation.
- Used by marinas, construction companies, highway departments, recreation departments and parks.
- Sharp gimlet point.

	DIA. 1/4		DIA. 5/16		DIA. 3/8		DIA. 1/2		DIA. 5/8		DIA. 3/4	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	506225	50	506237	50	506249	25	---	-	---	-	---	-
1-1/4	506226	50	506238	50	506250	25	---	-	---	-	---	-
1-1/2	506227	50	506239	50	506251	25	506264	10	---	-	---	-
2	506228	50	506240	50	506252	25	506265	10	506277	5	---	-
2-1/2	506229	50	506241	25	506253	25	506266	10	506278	5	506289	5
3	506230	50	506242	25	506254	25	506267	10	506279	5	506290	5
3-1/2	506231	50	506243	25	506255	25	506268	10	506280	5	---	-
4	506232	25	506244	25	506256	10	506269	10	506281	5	506291	5
4-1/2	506233	25	506245	25	506257	10	506270	10	506282	5	---	-
5	506234	25	506246	25	506258	10	506271	10	506283	5	506292	5
5-1/2	506235	25	506247	25	506259	10	506272	10	---	-	---	-
6	506236	25	506248	25	506260	10	506273	10	506284	5	506293	5
7	---	-	---	-	506261	10	506274	5	506285	5	506294	5
8	---	-	---	-	506262	10	506275	5	506286	5	506295	2
10	---	-	---	-	506263	10	506276	5	506287	5	506296	2
12	---	-	---	-	---	-	---	-	506288	5	506297	2

Part No. 501725
112 pieces • 16 items
12017 steel tray

506225	506240	506264
506227	506242	506265
506228	506249	506267
506230	506251	506269
506237	506252	
506239	506254	

Numbers in assortment

FLAT HEAD SLOTTED WOOD SCREWS

	DIA. NO. 2		DIA. NO. 4		DIA. NO. 5		DIA. NO. 6		DIA. NO. 7		DIA. NO. 8		DIA. NO. 9		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	53310	200	---	-	---	-	---	-	---	-	---	-	---	-	---	-
3/8	---	-	533500	100	533503	100	---	-	---	-	---	-	---	-	---	-
1/2	53312	200	53315	200	533504	100	53324	200	533510	100	53336	200	---	-	533526	100
3/4	---	-	53318	200	533505	100	53327	200	533511	100	53338	200	533519	100	53350	200
1	---	-	53321	200	533506	100	53330	200	533512	100	53341	200	533520	100	53353	200
1-1/4	---	-	533501	100	533507	100	533540	100	533513	100	53370	100	533521	50	53372	100
1-1/2	---	-	533502	50	---	-	53333	100	533514	50	53344	100	533522	50	53356	100
1-3/4	---	-	---	-	---	-	533508	50	533515	50	53371	100	533541	50	533527	100
2	---	-	---	-	---	-	533509	50	533516	50	53347	100	533523	50	53359	100
2-1/2	---	-	---	-	---	-	---	-	---	-	533517	50	533524	50	533528	50
3	---	-	---	-	---	-	---	-	---	-	533518	50	533525	50	533529	50

	DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY
3/4	533530	100	533534	50
1	53362	200	53397	100
1-1/4	53374	100	53398	100
1-1/2	53364	100	53399	100
1-3/4	533531	50	533535	25
2	53366	100	533536	25
2-1/2	533532	50	533537	25
3	533533	50	533538	25
3-1/2	---	-	533539	25

Protected by
LUSTERPLATE™
against rust & corrosion

- Alloy steel.
- Conforms to ANSI B18.6.1 specifications.
- Sharp gimlet point.
- Deep slotted heads.

Part No. 501007
415 pieces • 22 items • 12017 steel tray

53315	53327	53336	53344	53356	53370	53374	53399
53318	53330	53338	53350	53362	53371	53397	
53324	53333	53341	53353	53364	53372	53398	

Numbers in assortment

Part No. 533004
270 pieces • 12 items • 12030 plastic tray

53324	53330	53338	53353	53364	53399
53327	53336	53341	53362	53397	533526

Numbers in assortment

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WOOD SCREWS

FLAT HEAD PHILLIPS WOOD SCREWS

	DIA. NO. 4		DIA. NO. 5		DIA. NO. 6		DIA. NO. 7		DIA. NO. 8		DIA. NO. 9		DIA. NO. 10		DIA. NO. 12	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	512127	100	---	-	---	-	---	-	---	-	---	-	---	-	---	-
1/2	512100	100	512129	100	512103	100	512136	100	512107	100	---	-	512082	100	---	-
3/4	512101	100	512130	100	512104	100	512137	100	512108	100	512075	100	512114	100	512086	100
1	512102	100	512131	100	512105	100	512138	100	512109	100	512076	100	512115	100	512119	100
1-1/4	512128	50	512132	50	512133	50	512139	50	512110	50	512077	50	512116	50	512120	50
1-1/2	---	-	---	-	512106	50	512140	50	512111	50	512078	50	512117	50	512121	50
1-3/4	---	-	---	-	512134	50	512141	50	512112	50	512079	50	512083	50	512087	50
2	---	-	---	-	512135	50	512142	50	512113	50	512080	50	512118	50	512122	50
2-1/2	---	-	---	-	---	-	---	-	512143	50	512081	50	512084	50	512088	25
3	---	-	---	-	---	-	---	-	512144	50	---	-	512085	25	512089	25

Protected by
LUSTERPLATE™
against rust & corrosion

Part No. 501455
415 pieces • 22 items • 12017 steel tray

512100	512104	512107	512110	512114	512117	512121	512125
512101	512105	512108	512111	512115	512119	512123	
512103	512106	512109	512112	512116	512120	512124	

Numbers in assortment

- **Alloy steel.**
- **Conforms to ANSI B18.6.1 specifications.**
- **Sharp gimlet point.**

	DIA. NO. 14	
LENGTH	PART NUMBER	QTY
1	512123	50
1-1/4	512124	50
1-1/2	512125	50
1-3/4	512090	50
2	512126	50
2-1/2	512091	50
3	512092	50
3-1/2	512093	50

FLAT HEAD SQUARE DRIVE *(ROBERTSON®)* WOOD SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- **High quality carbon steel.**
- **Square recess for maximum driving torque.**
- **Reduces driver bit "Cam-Out".**
- **Sharp threads for faster driving.**
- **NO screwdriver slippage, or marred work.**

	DIA. NO. 6		DIA. NO. 8		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/4	512150	100	512154	100	512159	100
1	512151	100	512155	100	512160	100
1-1/4	512152	100	512156	100	512161	100
1-1/2	512153	100	512157	100	512162	100
2	---	-	512158	100	512163	100

See page D10-43 for Square Recess Screwdrivers.

Part No. 501486
755 pieces • 14 items • 12050 steel tray

512150	512153	512156	512159	512162
512151	512154	512157	512160	512163
512152	512155	512158	512161	

Numbers in assortment

Part No. 512001
360 pieces • 12 items • 12038 plastic tray

512150	512152	512154	512156	512158	512162
512151	512153	512155	512157	512160	512163

Numbers in assortment

OVAL HEAD SLOTTED WOOD SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Alloy steel.**
- **Sharp gimlet point.**
- **Conforms to ANSI B18.6.1 specifications.**
- **Deep slotted heads.**

	DIA. NO. 4		DIA. NO. 6		DIA. NO. 8		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	53317	200	53326	200	---	-	---	-
3/4	53320	200	53329	200	53340	200	53352	200
1	53323	200	53332	200	53343	200	53355	200
1-1/2	---	-	53335	200	53346	100	53358	100
2	---	-	---	-	53349	100	53361	100

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WOOD and FLOORBOARD SCREWS

ROUND HEAD SLOTTED WOOD SCREWS

	DIA. NO. 2		DIA. NO. 4		DIA. NO. 5		DIA. NO. 6		DIA. NO. 7		DIA. NO. 8		DIA. NO. 9		DIA. NO. 10	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/4	53311	200	53314	200	---	-	---	-	---	-	---	-	---	-	---	-
1/2	53313	200	53316	200	512201	50	53325	200	512208	50	53337	200	---	-	512226	100
3/4	---	-	53319	200	512202	50	53328	200	512209	50	53339	200	512220	50	53351	200
1	---	-	53322	200	512203	50	53331	200	512210	50	53342	200	512221	50	53354	200
1-1/4	---	-	512200	50	512204	50	512205	50	512211	50	512215	50	512222	50	512227	50
1-1/2	---	-	---	-	---	-	53334	100	512212	50	53345	100	512223	50	53357	100
1-3/4	---	-	---	-	---	-	512206	25	512213	50	512216	50	512224	50	512228	50
2	---	-	---	-	---	-	512207	25	512214	50	53348	100	512225	25	53360	100
2-1/2	---	-	---	-	---	-	---	-	---	-	512217	25	---	-	512229	25
3	---	-	---	-	---	-	---	-	---	-	512218	25	---	-	512230	25
3-1/2	---	-	---	-	---	-	---	-	---	-	512219	25	---	-	---	-

	DIA. NO. 12		DIA. NO. 14	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY
3/4	512231	100	---	-
1	53363	200	512236	25
1-1/4	512232	50	512237	25
1-1/2	53365	100	512238	25
1-3/4	512233	50	512239	25
2	53367	100	512240	10
2-1/2	512234	25	512241	10
3	512235	25	512242	10
3-1/2	---	-	512243	10

Protected by
LUSTERPLATE™
against rust & corrosion

- **Alloy steel.**
- **Conforms to ANSI B18.6.1 specifications.**
- **Sharp gimlet point.**
- **Deep slotted heads.**

Part No. 501503
510 pieces • 22 items • 12017 steel tray

53316	53328	53337	53345	53357	512215	512232	512238
53319	53331	53339	53351	53363	512216	512236	
53325	53334	53342	53354	53365	512227	512237	

Numbers in assortment

Part No. 512004
270 pieces • 12 items • 12030 plastic tray

53325	53331	53339	53351	53363	512236
53328	53337	53342	53354	512232	512237

Numbers in assortment

TORX FLAT HEAD FLOORBOARD SCREWS

- **40% less drive torque required.**
- **Greater thread engagement, greater strip-out and pull-out resistance.**
- **Stronger threads in crossmember.**
- **Coarse threads.**

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

	DIA. 1/4-20		DIA. 5/16-18	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY
1	717675	100	---	-
1-1/4	717676	100	---	-
1-1/2	717677	100	---	-
1-3/4	717678	100	717680	50
2	717292	100	717295	50
2-1/4	717679	100	717681	50
2-1/2	717293	100	717682	50
3	717294	50	717683	50
3-1/2	717288	50	---	-
4	717289	50	---	-

TORX BITS 1/4 DRIVE		
SCREW DIA.	PART NUMBER	
1/4	113190	T-30
5/16	113191	T-40

FLAT HEAD TYPE "F" FLOORBOARD SCREWS

	SLOTTED		PHILLIPS	
	DIA. 1/4-20		DIA. 1/4-20	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY
1-1/4	717296	100	717401	50
1-1/2	717297	100	717402	50
2	717290	100	717403	50
2-1/2	717291	100	717404	50
3	717298	50	717405	50

- **Type "F" thread cutting point.**
- **Hardened steel.**

Protected by
LUSTERPLATE™
against rust & corrosion

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UNIVERSAL SELF-DRILLING, DRYWALL and TAMPER-PROOF SCREWS

SPAX® FLAT HEAD UNIDRIFE® SELF-DRILLING SCREWS

Works in hardwood, softwood, drywall, chipboard, plywood, treated lumber, plastics, composites and thin sheet metal. Used in industrial MRO, building maintenance, schools, fleet and woodworking.

Sizes 6 through 14, 3 phillips & 3 sq. drivers
Part No. 501686L
1906 pieces • 25 items • 12071 steel tray

53601	53606	53611	53616	114308
53602	53607	53612	53617	114309
53603	53608	53613	53618	114336
53604	53609	53614	53619	114337
53605	53610	53615	114307	114338

1/2 QUANTITY AVAILABLE ORDER NO. 501686M
Numbers in assortment

- **No pre-drilling.**
- **Excellent drivability.**
- **Extreme tear out resistance.**
- **Steel - Zinc plated.**
- **Remarkable thread shape.**
- **Universal driving for square and phillips with Unidrife®.**

LENGTH	DIA. NO. 6 PART NUMBER	QTY	DIA. NO. 8 PART NUMBER	QTY	DIA. NO. 10 PART NUMBER	QTY	DIA. NO. 12 PART NUMBER	QTY	DIA. NO. 14 PART NUMBER	QTY
1/2	53601	100	---	-	---	-	---	-	---	-
3/4	53602	100	53605	100	53610	100	---	-	---	-
1	53603	100	53606	100	53611	100	53614	50	53617	50
1-1/4	---	-	53607	100	53612	50	53615	50	53618	50
1-1/2	53604	100	53608	100	53613	50	53616	50	53619	50
1-3/4	---	-	53609	50	---	-	---	-	---	-
2	53625	50	53628	50	53633	50	---	-	53620	50
2-1/4	---	-	---	-	---	-	---	-	---	-
2-1/2	---	-	53629	50	53634	50	53638	50	53621	50
2-3/4	---	-	---	-	---	-	---	-	---	-
3	---	-	53630*	50	53635	50	---	-	53622	50

*Not Fully Threaded

DRYWALL SCREWS

Protected by
BLACK PHOSPHATE™
against rust & corrosion

- **Bugle phillips head.**
- **Hardened steel.**

Sizes: 6 x 1"through 8 x 3"
USS (COARSE)
Part No. 501557
600 pieces • 8 items
12061 steel tray

505270	505272	505276	505280
505271	505273	505277	505282

Numbers in assortment

LENGTH	DIA. NO. 6 PART NUMBER FINE	COARSE	QTY	DIA. NO. 7 PART NUMBER FINE	COARSE	QTY	DIA. NO. 8 PART NUMBER FINE	COARSE	QTY	DIA. NO. 10 PART NUMBER FINE	COARSE	QTY
1	505251	505270	500	---	---	-	---	---	-	---	---	-
1-1/8	505252	505271	500	---	---	-	---	---	-	---	---	-
1-1/4	505253	505272	500	---	---	-	---	---	-	---	---	-
1-1/2	505263	505273	500	---	---	-	---	---	-	---	---	-
1-5/8	505254	505274	500	---	---	-	---	---	-	---	---	-
1-3/4	---	505275	500	---	---	-	---	---	-	---	---	-
2	505255	505276	500	---	505278	250	---	---	-	---	---	-
2-1/4	505256	505277	500	505264	505279	250	---	---	-	---	---	-
2-1/2	---	---	-	---	---	-	505257	505280	500	---	---	-
2-3/4	---	---	-	---	---	-	505265	505281	250	---	---	-
3	---	---	-	---	---	-	505258	505282	500	---	---	-
3-1/2	---	---	-	---	---	-	---	---	-	505266	505283	100
3-3/4	---	---	-	---	---	-	---	---	-	505259	---	100
4	---	---	-	---	---	-	---	---	-	505267	505284	100
4-1/2	---	---	-	---	---	-	---	---	-	505260	---	100
5	---	---	-	---	---	-	---	---	-	505261	---	100
6	---	---	-	---	---	-	---	---	-	505262	---	100

TAMPER-PROOF MACHINE SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Round head one-way slot.**
- **Cannot be removed with conventional tools.**
- **Stops vandalism and loss.**

Part No. 505018
360 pieces • 15 items • 12040 plastic tray

505925	505927	505929	505931	505933	505935	505937	505939
505926	505928	505930	505932	505934	505936	505938	

Numbers in assortment

LENGTH	DIA. 8-32 PART NUMBER	QTY	DIA. 10-24 PART NUMBER	QTY	DIA. 10-32 PART NUMBER	QTY	DIA. 14-20 PART NUMBER	QTY
1/2	505925	50	505928	50	505933	50	505936	50
5/8	---	-	505929	50	---	-	---	-
3/4	505926	50	505930	50	505934	50	505937	50
1	505927	50	505931	50	505935	50	505938	50
1-1/4	---	-	505932	50	---	-	---	-
1-1/2	---	-	---	-	---	-	505939	50

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TAMPER-PROOF, MISCELLANEOUS and SET SCREWS

TAMPER-PROOF SHEET METAL SCREWS

- **Round head one-way slot.**

LENGTH	DIA. NO. 6 PART NUMBER	QTY	DIA. NO. 8 PART NUMBER	QTY	DIA. NO. 10 PART NUMBER	QTY	DIA. NO. 14 PART NUMBER	QTY
1/2	**505901**	50	**505904**	50	**505907**	50	---	-
5/8	---	-	---	-	---	-	---	-
3/4	**505902**	50	**505905**	50	**505909**	50	**505913**	50
1	**505903**	50	---	-	**505910**	50	**505914**	50
1-1/4	---	-	---	-	**505911**	50	---	-
1-1/2	---	-	---	-	---	-	**505915**	50

Part No. 505017
285 pieces • 12 items • 12040 plastic tray

505901	505903	505905	505909	505913	505915
505902	505904	505907	505910	505914	

Numbers in assortment

UN-DO-IT®

PART NUMBER	FOR SCREW SIZES	SHAFT DIA.
113231	4-6-8	5/16
113232	10-12	3/8
113233	14-18	7/16
	1/4-3/8	

The only tool of its kind.
Removes one-way tamper-proof screws quickly, easily.

TAMPER-PROOF SEX BOLTS

Designed to be used with brackets to mount privacy partitions, latches, rails, grab bars, dispensers and other lavatory fixtures anywhere where a solid through bolting application is needed.

- **Fits all 1/4" diameter holes.**
- **One way slotted truss head.**
- **10-24 threads on both male and female parts.**
- **18-8 stainless steel for corrosion resistance.**
- **Knurled under head to prevent slipping.**
- **Available as sets, or individually as male or female parts.**
- **Easily installed with a standard slotted screwdriver.**
- **Removed only with a one way removal tool #113232.**

MAKEUP OF SETS:				
MALE	**+**	**FEMALE**	**=**	**PARTITION**
1/2"	+	1/2"	=	3/4"
3/4"	+	3/4"	=	1"
3/4"	+	1"	=	1-1/4"

MALE LENGTH "M"	PART NUMBER	QTY
1/2	**505950**	10
3/4	**505951**	10
--	---	-

FEMALE LENGTH "F"	PART NUMBER	QTY
1/2	**505952**	10
3/4	**505953**	10
1	**505954**	10

SETS PARTITION SIZE "P"	PART NUMBER	QTY
3/4	**505955**	10
1	**505956**	10
1-1/4	**505957**	10

SQUARE HEAD SET SCREWS

- **Heat treated alloy steel.**
- **Cup point.**
- **Coarse threads.**
- **Class 3A fully formed threads.**

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

LENGTH	DIA. 1/4-20 PART NUMBER	QTY	DIA. 5/16-18 PART NUMBER	QTY	DIA. 3/18-16 PART NUMBER	QTY	DIA. 7/16-14 PART NUMBER	QTY	DIA. 1/2-13 PART NUMBER	QTY
1/2	**503701**	50	**503705**	50	**503711**	50	---	-	---	-
5/8	---	-	---	-	**503712**	50	---	-	---	-
3/4	**503702**	50	**503706**	50	**503713**	50	**503718**	20	---	-
1	**503703**	50	**503707**	50	**503714**	50	**503719**	20	**503722**	20
1-1/4	**503704**	50	**503708**	50	**503715**	30	---	-	**503723**	20
1-1/2	**503730**	50	**503709**	50	**503716**	30	**503720**	20	**503724**	20
2	**503731**	50	**503710**	50	**503717**	30	---	-	**503725**	10
2-1/4	---	-	---	-	---	-	**503721**	20	**503726**	10
2-1/2	---	-	---	-	---	-	---	-	**503727**	10
2-3/4	---	-	---	-	---	-	---	-	**503728**	10
3	---	-	---	-	---	-	---	-	**503729**	10

Sizes: 1/4-20 x 1/2" through 1/2-13 x 2"
Part No. 501038
220 pieces • 24 items • 12017 steel tray

503701	503705	503709	503713	503717	503722
503702	503706	503710	503714	503718	503723
503703	503707	503711	503715	503719	503724
503704	503708	503712	503716	503720	503725

Numbers in assortment

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SET SCREWS

SOCKET HEAD SET SCREWS - CUP POINT

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Heat treated alloy steel.**
- **Class 3A fully formed threads.**

LENGTH	DIA. NO. 6 KEY SIZE 1/16 PART NUMBER COARSE	FINE	QTY	DIA. NO. 8 KEY SIZE 5/64 PART NUMBER COARSE	FINE	QTY	DIA. NO. 10 KEY SIZE 3/32 PART NUMBER COARSE	FINE	QTY	DIA. NO. 1/4 KEY SIZE 1/8 PART NUMBER COARSE	FINE	QTY
1/8	---	503603	100	503605	---	100	---	---	-	---	---	-
3/16	503601	503604	100	503606	503610	100	503613	503617	100	---	---	-
1/4	503602	---	100	503607	503611	100	503614	503618	100	503621	503628	100
5/16	---	---	-	---	503612	100	---	---	-	503622	503629	100
3/8	---	---	-	---	---	-	503615	503619	100	503623	503630	100
1/2	---	---	-	503608	---	100	503616	503620	100	503624	503631	100
3/4	---	---	-	503609	---	100	---	---	-	503625	503632	100
1	---	---	-	---	---	-	---	---	-	503626	---	100
1-1/4	---	---	-	---	---	-	---	---	-	503627	---	50

LENGTH	DIA. 5/16 KEY SIZE 5/32 PART NUMBER COARSE	FINE	QTY	DIA. 3/8 KEY SIZE 3/16 PART NUMBER COARSE	FINE	QTY	DIA. 7/16 KEY SIZE 7/32 PART NUMBER COARSE	FINE	QTY	DIA. 1/2 KEY SIZE 1/4 PART NUMBER COARSE	FINE	QTY	DIA. 5/8 KEY SIZE 5/16 PART NUMBER COARSE	FINE	QTY
1/4	---	503640	100	---	---	-	---	---	-	---	---	-	---	---	-
5/16	503633	503641	100	---	---	-	---	---	-	---	---	-	---	---	-
3/8	503634	503642	100	503647	503654	100	---	---	-	---	---	-	---	---	-
1/2	503635	503643	100	503648	503655	100	503658	---	50	503663	503671	30	---	---	-
5/8	---	503644	100	---	---	-	---	---	-	---	---	-	---	---	-
3/4	503636	503645	50	503649	503656	50	503659	---	30	503664	503672	30	503674	---	20
1	503637	503646	50	503650	503657	50	503660	---	30	503665	503673	30	503675	---	20
1-1/4	503638	---	50	503651	---	30	---	---	-	503666	---	30	---	---	-
1-1/2	503639	---	50	503652	---	30	503661	---	20	503667	---	20	---	---	-
2	---	---	-	503653	---	30	503662	---	20	503668	---	20	---	---	-
2-1/2	---	---	-	---	---	-	---	---	-	503669	---	10	---	---	-
3	---	---	-	---	---	-	---	---	-	503670	---	10	---	---	-

Sizes: 6-32 x 1/4" through 1/2-13 x 1"
USS (COARSE) & SAE (FINE)
Part No. 501037
433 pieces • 24 items • 12017 steel tray

503602	503623	503633	503643	503659
503607	503624	502634	503647	503663
503614	503625	503635	503648	503664
503618	503628	503636	503649	503665
503621	503630	503641	503658	

Numbers in assortment

MAINTENANCE SHOP
Sizes: 6-32 x 1/4" through 1/2-13 x 1"
Part No. 503003
245 pieces • 18 items • 12040 plastic tray

503602	503624	503635	503663
503607	503625	503636	503664
503614	503628	503643	503665
503618	503630	503649	
503621	503633	503658	

Numbers in assortment

AUTOMOTIVE SHOP
Sizes: 6-32 x 1/4" through 1/2-13 x 1"
Part No. 503004
146 pieces • 18 items • 12026 plastic tray

503602	503624	503635	503663
503607	503625	503636	503664
503614	503628	503643	503665
503618	503630	503649	
503621	503633	503658	

Numbers in assortment

A15

SOCKET HEAD SET SCREWS - KNURLED POINT

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Heat treated alloy steel.**
- **Self-locking.**
- **Class 3A fully formed threads.**
- **Knurled point penetrates contact surface to resist loosening under severe vibration.**
- **Knurled edges increase gripping action and improve holding power.**

LENGTH	DIA. NO. 4 KEY SIZE .050 PART NUMBER COARSE	FINE	QTY	DIA. NO. 6 KEY SIZE 1/16 PART NUMBER COARSE	FINE	QTY	DIA. NO. 8 KEY SIZE 5/64 PART NUMBER COARSE	FINE	QTY	DIA. NO. 10 KEY SIZE 3/32 PART NUMBER COARSE	FINE	QTY
1/8	506901	---	50	506906	---	50	506913	---	50	---	---	-
3/16	506902	---	50	506907	---	50	506914	---	50	506921	506929	50
1/4	506903	---	50	506908	---	50	506915	---	50	506922	506930	50
5/16	506904	---	50	506909	---	50	506916	---	50	506923	506931	50
3/8	506905	---	50	506910	---	50	506917	---	50	506924	506932	50
1/2	---	---	-	506911	---	50	506918	---	50	506925	506933	50
5/8	---	---	-	506912	---	50	506919	---	50	506926	506934	50
3/4	---	---	-	---	---	-	506920	---	50	506927	506935	50
1	---	---	-	---	---	-	---	---	-	506928	506936	25

Sizes: 6-32 x 1/4" through 1/2-13 x 1"
USS (COARSE) & SAE (FINE)
Part No. 501685
438 pieces • 24 items
12017 steel tray

506908	506940	506955	506970
506915	506942	506957	506974
506922	506945	506960	506976
506930	506947	506962	506979
506937	506953	506967	506981
506939	506954	506968	506982

Numbers in assortment

LENGTH	DIA. 1/4 KEY SIZE 1/8 PART NUMBER COARSE	FINE	QTY	DIA. 5/16 KEY SIZE 5/32 PART NUMBER COARSE	FINE	QTY	DIA. 3/8 KEY SIZE 3/16 PART NUMBER COARSE	FINE	QTY	DIA. 1/2 KEY SIZE 1/4 PART NUMBER COARSE	FINE	QTY
1/4	506937	506945	50	---	---	-	---	---	-	---	---	-
5/16	506938	506946	50	506953	506960	50	---	---	-	---	---	-
3/8	506939	506947	50	506954	506961	50	506967	506973	25	---	---	-
1/2	506940	506948	50	506955	506962	50	506968	506974	25	506979	---	10
5/8	506941	506949	50	506956	506963	50	506969	506975	25	506980	---	10
3/4	506942	506950	50	506957	506964	25	506970	506976	25	506981	---	10
1	506943	506951	25	506958	506965	25	506971	506977	25	506982	---	10
1-1/4	506944	506952	25	506959	506966	25	506972	506978	10	506983	---	10

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MOST USED METRIC FASTENERS & FACTS

TENSILE STRENGTH	MATERIAL	HEAD	PLATING	ILLUSTRATION
170,000 PSI	Medium Carbon alloy Steel	Standard	Lusterplated To resist rust And corrosion	10.9
128,000 PSI	Medium Carbon Steel	Standard	Lusterplated To resist rust And corrosion	8.8

HEX HEAD CAP SCREWS

- **DIN 931 & 933 (Coarse Thread)**
- **DIN 960 & 961 (Fine & Extra Fine Thread)**
- **Medium Carbon Steel Grade 8.8**
- **Medium Carbon Alloy Steel Grade 10.9**

HEX NUTS

- **DIN 934 (Coarse, Fine & Extra Fine Thread)**
- **Standard Steel Class 8 (Grade 8.8)**
- **Hardened Steel Class 10 (Grade 10.9)**

WASHERS

- **DIN 125 Flat**
- **DIN 127 Split Lock**
- **DIN 137 Spring Lock**
- **Standard Steel Class 8 (Grade 8.8)**
- **Hardened Steel Class 10 (Grade 10.9)**

METRIC FACTS

USS (COARSE) THREAD				SAE (FINE) THREAD			EXTRA FINE THREAD			WRENCH	
DIA. MM	PITCH MM	APPROX. THREADS PER INCH (AMERICAN)	RECOMMENDED DRILLS (MM)	PITCH MM	APPROX. THREADS PER INCH (AMERICAN)	RECOMMENDED DRILLS (MM)	PITCH MM	APPROX. THREADS PER INCH (AMERICAN)	RECOMMENDED DRILLS (MM)	STD	UND
4	.70	36	3.30	-	-	-	-	-	-	7mm	-
5	.80	32	4.20	-	-	-	-	-	-	8mm	-
6	1.00	25	6.00	-	-	-	-	-	-	10mm	-
7	1.00	25	6.00	-	-	-	-	-	-	11mm	-
8	1.25	20	6.75	1.00	25	7.00	-	-	-	13mm	12mm
10	1.50	17	8.50	1.25	20	8.75	1.00	25	9.00	17mm	14mm
12	1.75	14.5	10.25	1.50	17	10.50	1.25	20	10.75	19mm	17mm
14	2.00	12.5	12.00	1.50	17	12.50	1.25	20	12.75	22mm	-
16	2.00	12.5	14.00	1.50	20	15.00	1.25	20	15.25	24mm	-
20	2.50	10.5	17.50	1.50	17	18.50	-	-	-	30mm	-

- **Pitch is the distance measured between two threads**
- **All metrics comply to D.I.N. and International Standards**

A16

"MOST USED" METRIC FASTENERS

Class 8.8 Hex Head Cap Screws
20 standard thread sizes from 5 x 6mm through 12 x 60mm.

Pan Head Machine Screws
16 standard thread sizes from 3 x 6mm through 6 x 30mm.

Flat Head Machine Screws
15 sizes in 5 diameters from 3 x 6mm through 6 x 30mm.

Class 8 Hex Nuts, Flat and Lock Washers
7 standard thread sizes from 3 to 12mm with matching washers

Part No. 501465
Over 2700 pieces • 72 items
12020 (18) drawer steel cabinet

"MOST USED" FINE THREAD METRIC CAP SCREWS AND NUTS for Japanese cars

Class 8.8 Hex Head Cap Screws
DIN 960
22 different caps screws, with standard head sizes, 8 x 16mm to 12 x 50mm.

Class 8.8 Hex Nuts
5 different nuts; 8mm-1.00, 10mm-1.00, 10mm-1.50, 12mm-1.25, 12mm-1.50 pitch sizes.

Combine with Assortment Part No. 501465 for complete automotive metric coverage. Cabinets match exactly.

Part No. 501479
Over 335 pieces • 27 items
12065 (6) drawer steel cabinet

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MOST POPULAR METRIC FASTENERS

80 BIN METRIC CLASS 8.8 USS (COARSE) & SAE (FINE) THREAD FASTENERS

- 8.8 Metric cap screws are manufactured from medium carbon steel for a minimum tensile strength of 128,000 PSI.
- The most popular sizes of metric cap screws, nuts, flat washers and lock washers from 4mm through 12mm.
- 80 compartment combination cabinet (Two 40 bin cabinets: 33-3/4" wide x 24" high x 9" deep).

Protected by **LUSTERPLATE™** against rust & corrosion

8.8

USS (COARSE) **& SAE** (FINE) **THREAD**

Part No. **501052L**
1566 pieces • 63 items
(2) 12021 steel cabinets
1/2 QUANTITY AVAILABLE ORDER NO. 501052M

Assortment Photo for illustration purposes only.
Actual Contents may vary.

4-.70 x 20mm	8-1.25 x 10mm	10-1.50 x 50mm	12-1.75 hex nut	10-1.00 x 30mm	10-1.25 x 25mm	4mm flat washer	4mm lock washer
5-.80 x 20mm	8-1.25 x 20mm	12-1.75 x 30mm		10-1.00 x 40mm	10-1.25 x 35mm	6mm flat washer	6mm lock washer
5-.80 x 30mm	8-1.25 x 25mm	12-1.75 x 40mm		12-1.25 x 25mm	12-1.50 x 40mm	6mm flat washer	6mm lock washer
6-1.00 x 10mm	8-1.25 x 30mm	12-1.75 x 50mm		12-1.25 x 35mm	12-1.50 x 25mm	8mm flat washer	8mm lock washer
6-1.00 x 20mm	8-1.25 x 40mm	4-.70 hex nut	8-1.00 x 16mm	12-1.25 x 40mm	12-1.50 x 35mm	10mm flat washer	10mm lock washer
6-1.00 x 25mm	8-1.25 x 50mm	5-.80 hex nut	8-1.00 x 25mm	12-1.25 x 50mm	12-1.50 x 40mm	12mm flat washer	12mm lock washer
6-1.00 x 30mm	10-1.50 x 20mm	6-1.00 hex nut	8-1.00 x 30mm	8-1.00 hex nut	12-1.50 x 50mm		
6-1.00 x 40mm	10-1.50 x 30mm	8-1.25 hex nut	8-1.00 x 40mm	10-1.00 hex nut	10-1.25 hex nut		
6-1.00 x 50mm	10-1.50 x 40mm	10-1.50 hex nut	10-1.00 x 25mm	12-1.25 hex nut	12-1.50 hex nut		
COARSE			FINE				

80 BIN METRIC CLASS 10.9 USS (COARSE) THREAD FASTENERS

- Manufactured from medium carbon alloy steel for a minimum tensile strength of 170,000 PSI.
- The most popular sizes of metric cap screws, nuts, flat washers and lock washers from 6mm through 16mm.
- 80 compartment combination cabinet (Two 40 bin cabinets: 33-3/4" wide x 24" high x 9" deep).

10.9

USS (COARSE) **THREAD**

Part No. **501033**
1250 pieces • 71 items
(2) 12021 steel cabinets

Assortment Photo for illustration purposes only.
Actual Contents may vary.

6mm flat washer	8mm flat washer	10mm flat washer	12mm flat washer	14mm flat washer	16mm flat washer	6mm lock washer	8mm lock washer
10mm lock washer	12mm lock washer	14mm lock washer	16mm lock washer	6mm hex nut	8mm hex nut	10mm hex nut	12mm hex nut
14mm hex nut	16mm hex nut	6mm x 16mm	6mm x 20mm	6mm x 25mm	6mm x 30mm	6mm x 35mm	6mm x 40mm
6mm x 45mm	6mm x 50mm	8mm x 16mm	8mm x 20mm	8mm x 25mm	8mm x 30mm	8mm x 40mm	8mm x 45mm
8mm x 50mm	8mm x 60mm	8mm x 70mm	10mm x 20mm	10mm x 30mm	10mm x 40mm	10mm x 50mm	10mm x 60mm
10mm x 70mm	10mm x 80mm	10mm x 90mm	10mm x 100mm	12mm x 25mm	12mm x 30mm	12mm x 40mm	10mm x 50mm
12mm x 60mm	12mm x 70mm	12mm x 80mm	12mm x 90mm	12mm x 100mm	14mm x 30mm	14mm x 40mm	14mm x 50mm
14mm x 60mm	14mm x 70mm	14mm x 80mm	14mm x 90mm	14mm x 100mm	14mm x 120mm	16mm x 30mm	16mm x 40mm
16mm x 50mm	16mm x 60mm	16mm x 70mm	16mm x 80mm	16mm x 90mm	16mm x 100mm	16mm x 120mm	

40 BIN METRIC CLASS 8.8 USS (COARSE) FASTENERS

- Manufactured from medium carbon steel for a minimum tensile strength of 128,000 PSI.
- Popular sizes of metric cap screws, nuts, flat washers and lock washers from 4mm through 12mm.
- 40 compartment combination cabinet (40 bin cabinet: 33-3/4" wide x 24" high x 9" deep).

Protected by **LUSTERPLATE™** against rust & corrosion

8.8

USS (COARSE) **THREAD**

Part No. **501041**
646 pieces • 40 items
12021 steel cabinet

Assortment Photo for illustration purposes only.
Actual Contents may vary.

4mm flat washer	5mm flat washer	6mm flat washer	8mm flat washer	10mm flat washer	12mm flat washer	4mm lock washer	5mm lock washer
6mm lock washer	8mm lock washer	10mm lock washer	12mm lock washer	4mm hex nut	5mm hex nut	6mm hex nut	8mm hex nut
10mm hex nut	12mm hex nut	4mm x 20mm	5mm x 20mm	5mm x 30mm	6mm x 10mm	6mm x 20mm	6mm x 25mm
6mm x 30mm	6mm x 40mm	6mm x 50mm	8mm x 10mm	8mm x 20mm	8mm x 25mm	8mm x 30mm	8mm x 40mm
8mm x 50mm	10mm x 20mm	10mm x 30mm	10mm x 40mm	10mm x 50mm	12mm x 30mm	12mm x 40mm	12mm x 50mm
COARSE							

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MOST POPULAR METRIC FASTENERS

40 BIN METRIC CLASS 8.8 USS (COARSE) & SAE (FINE) THREAD FASTENERS

- Manufactured from medium carbon steel for a minimum tensile strength of 128,000 PSI.
- Popular sizes of metric cap screws, nuts, flat washers and lock washers from 4mm through 12mm.
- 40 compartment combination cabinet (40 bin cabinet: 33-3/4" wide x 24" high x 9" deep).

4mm x 20mm	8mm x 40mm	12mm x 50mm	10mm hex nut	10mm x 20mm	12mm x 35mm	4mm flat washer	4mm lock washer
6mm x 10mm	10mm x 30mm	12mm x 60mm	12mm hex nut	10mm x 25mm	5mm x 30mm	6mm flat washer	6mm lock washer
6mm x 25mm	10mm x 40mm	4mm hex nut	8mm x 16mm	10mm x 35mm	8mm hex nut	8mm flat washer	8mm lock washer
8mm x 20mm	10mm x 50mm	6mm hex nut	8mm x 25mm	10mm x 40mm	10mm hex nut	10mm flat washer	10mm lock washer
8mm x 30mm	12mm x 40mm	8mm hex nut	8mm x 35mm	12mm x 25mm	12mm hex nut	12mm flat washer	12mm lock washer
COARSE			FINE				

Protected by **LUSTERPLATE™** against rust & corrosion

8.8

USS (COARSE) & SAE (FINE) THREAD
Part No. **501054L**
1034 pieces • 40 items
12021 steel cabinet
1/2 QUANTITY AVAILABLE ORDER NO. 501054M

Assortment Photo for illustration purposes only.
Actual Contents may vary.

40 BIN METRIC CLASS 10.9 USS (COARSE) THREAD FASTENERS

- Manufactured from medium carbon steel for a minimum tensile strength of 170,000 PSI.
- Popular sizes of metric cap screws, nuts, flat washers and lock washers from 6mm through 16mm.
- 40 compartment combination cabinet (40 bin cabinet: 33-3/4" wide x 24" high x 9" deep).

6mm x 20mm	8mm x 60mm	10mm x 70mm	12mm x 90mm	16mm x 60mm	12mm hex nut	10mm flat washer	8mm lock washer
6mm x 40mm	8mm x 70mm	10mm x 80mm	14mm x 40mm	16mm x 100mm	14mm hex nut	12mm flat washer	10mm lock washer
6mm x 50mm	10mm x 20mm	12mm x 35mm	14mm x 60mm	6mm hex nut	16mm hex nut	14mm flat washer	12mm lock washer
8mm x 30mm	10mm x 30mm	12mm x 50mm	14mm x 80mm	8mm hex nut	6mm flat washer	16mm flat washer	14mm lock washer
8mm x 45mm	10mm x 50mm	12mm x 80mm	16mm x 40mm	10mm hex nut	8mm flat washer	6mm lock washer	16mm lock washer
COARSE							

Protected by **LUSTERPLATE™** against rust & corrosion

10.9

USS (COARSE) THREAD
Part No. **501386**
578 pieces • 40 items
12021 steel cabinet

Assortment Photo for illustration purposes only.
Actual Contents may vary.

A16

18 DRAWER METRIC CLASS 8.8 USS (COARSE) & SAE (FINE) THREAD FASTENERS

4mm x 20mm	6mm x 10mm	6mm x 25mm	8mm x 20mm	8mm x 30mm	8mm x 40mm	COARSE
10mm x 30mm	10mm x 40mm	10mm x 50mm	12mm x 40mm	12mm x 50mm	12mm x 60mm	COARSE
8mm x 16mm	8mm x 25mm	8mm x 30mm	10mm x 20mm	10mm x 25mm	10mm x 35mm	FINE
10mm x 40mm	12mm x 25mm	12mm x 35mm	12mm x 40mm			FINE
4mm hex nut	10mm hex nut	10mm hex nut fine	6mm flat washer	12mm flat washer	8mm lock washer	
6mm hex nut	12mm hex nut	12mm hex nut fine	8mm flat washer	4mm lock washer	10mm lock washer	
8mm hex nut	8mm hex nut fine	4mm flat washer	10mm flat washer	6mm lock washer	12mm lock washer	

Protected by **LUSTERPLATE™** against rust & corrosion

8.8

- Manufactured from medium carbon steel, with minimum tensile strength of 128,000 PSI.
- The most popular sizes of metric cap screws, nuts, flat washers from 4mm through 12mm.
- 18 Drawer 12020 Cabinet measures 33-3/4" wide x 11" high x 11-5/8" deep.

USS (COARSE) & SAE (FINE) THREAD
Part No. **501053**
517 pieces • 40 items
12020 steel cabinet

16 BIN METRIC CLASS 8.8 USS (COARSE) & SAE (FINE) THREAD CAPSCREWS

- For the customer who needs long bolts.
- The most popular sizes from 6 x 40mm through 10 x 60mm.
- Ideal companion for Assortment No. 501054.

COARSE	6mm x 40mm	6mm x 45mm	6mm x 50mm	6mm x 60mm	8mm x 45mm	8mm x 50mm	8mm x 60mm	10mm x 60mm
FINE	8mm x 40mm	8mm x 50mm	8mm x 60mm	10-1.00 x 50mm	10-1.00 x 60mm	10-1.25 x 50mm	10-1.25 x 60mm	

8.8

USS (COARSE) & SAE (FINE) THREAD
Part No. **501060**
159 pieces • 15 items
12058 steel cabinet

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METRIC STEEL TRAY ASSORTMENTS

METRIC CLASS 8.8 USS (COARSE) & SAE (FINE) THREAD FASTENERS

- Manufactured from medium carbon steel, with minimum tensile strength of 128,000 PSI.
- Includes cap screws, nuts, flat and lock washers.
- Sizes 6mm through 12mm.

Protected by **LUSTERPLATE™** against rust & corrosion

Part No. 501312 • 456 pieces • 37 items • 12062 steel tray

HEX NUTS	HEX NUTS	HEX NUTS	LOCK WASHERS	FLAT WASHERS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
6-1.00	10-1.00	12-1.75	6mm	6mm	6-1.00 x 10mm	8-1.25 x 30mm	10-1.25 x 40mm	12-1.50 x 50mm
7-1.00	10-1.25		7mm	7mm	7-1.00 x 16mm	10-1.00 x 20mm	10-1.50 x 40mm	12-1.75 x 50mm
8-1.00	10-1.50		8mm	8mm	8-1.00 x 16mm	10-1.25 x 20mm	12-1.25 x 30mm	
8-1.25	12-1.25		10mm	10mm	8-1.25 x 16mm	10-1.50 x 20mm	12-1.50 x 30mm	
10-1.00	12-1.50			12mm	8-1.00 x 30mm	10-1.00 x 40mm	12-1.25 x 50mm	

Numbers in assortment

METRIC CLASS 8.8 USS (COARSE) THREAD FASTENERS

- Manufactured from medium carbon steel, with minimum tensile strength of 128,000 PSI.
- Includes cap screws, nuts, flat and lock washers.
- Sizes 4mm through 10mm.

Protected by **LUSTERPLATE™** against rust & corrosion

Part No. 501012 • 1064 pieces • 28 items • 12062 steel tray

HEX NUTS	LOCK WASHERS	FLAT WASHERS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
5-.80	5mm	5mm	5-.80 x 20mm	6-1.00 x 30mm	8-1.25 x 30mm	10-1.50 x 40mm
6-1.00	6mm	6mm	5-.80 x 30mm	6-1.00 x 40mm	8-1.25 x 40mm	
8-1.25	8mm	8mm	6-1.00 x 10mm	6-1.00 x 50mm	8-1.25 x 50mm	
10-1.50	10mm	10mm	6-1.00 x 20mm	8-1.25 x 20mm	10-1.50 x 20mm	
			6-1.00 x 25mm	8-1.25 x 25mm	10-1.50 x 30mm	

Numbers in assortment

METRIC CLASS 8.8 SAE (FINE) THREAD FASTENERS

- Manufactured from medium carbon steel, with minimum tensile strength of 128,000 PSI.
- Includes cap screws, nuts, flat and lock washers.
- Sizes 8mm through 14mm.

Protected by **LUSTERPLATE™** against rust & corrosion

Part No. 501036 • 331 pieces • 31 items • 12062 steel tray

HEX NUTS	LOCK WASHERS	FLAT WASHERS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
8-1.00	8mm	8mm	8-1.00 x 20mm	10-1.00 x 30mm	10-1.25 x 50mm	12-1.50 x 50mm
10-1.00	10mm	10mm	8-1.00 x 30mm	10-1.25 x 30mm	12-1.50 x 25mm	14-1.50 x 35mm
10-1.25	12mm	12mm	8-1.00 x 35mm	10-1.00 x 35mm	12-1.50 x 30mm	14-1.50 x 50mm
12-1.50	14mm	14mm	8-1.00 x 40mm	10-1.00 x 40mm	12-1.50 x 35mm	
14-1.50			10-1.00 x 20mm	10-1.00 x 50mm	12-1.50 x 40mm	

Numbers in assortment

METRIC CLASS 10.9 USS (COARSE) THREAD FASTENERS

- Manufactured from medium carbon alloy steel for a minimum tensile strength of 170,000 PSI.
- Includes cap screws, nuts, flat and lock washers.
- Sizes 6mm through 16mm.

Part No. 501387 • 505 pieces • 37 items • 12062 steel tray

HEX NUTS	HEX NUTS	LOCK WASHERS	LOCK WASHERS	FLAT WASHERS	LOCK WASHERS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
6-1.00	16-2.00	6mm	16mm	6mm	16mm	6-1.00 x 16mm	8-1.25 x 40mm	10-1.50 x 50mm	14-2.00 x 50mm
8-1.25		8mm		8mm		6-1.00 x 25mm	8-1.25 x 50mm	12-1.75 x 25mm	14-2.00 x 70mm
10-1.50		10mm		10mm		6-1.00 x 45mm	10-1.50 x 25mm	12-1.75 x 40mm	16-2.00 x 50mm
12-1.75		12mm		12mm		8-1.25 x 20mm	10-1.50 x 35mm	12-1.75 x 60mm	16-2.00 x 70mm
14-2.00		14mm		14mm		8-1.25 x 30mm	10-1.50 x 40mm	12-1.75 x 70mm	

Numbers in assortment

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METRIC STEEL and PLASTIC TRAY ASSORTMENTS

METRIC CLASS 8.8 USS (COARSE) & SAE (FINE) THREAD FASTENERS

Protected by **LUSTERPLATE™** against rust & corrosion

- **Manufactured from medium carbon steel, with minimum tensile strength of 128,000 PSI.**
- **Includes cap screws, nuts, flat and lock washers.**
- **Sizes 6mm through 12mm.**

Part No. 553201 • 137 pieces • 42 items • 12044 plastic tray

HEX NUTS	HEX NUTS	LOCK WASHERS	FLAT WASHERS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
6-1.00	12-1.50	6mm	6mm	6-1.00 x 10mm	8-1.25 x 16mm	10-1.00 x 16mm	10-1.00 x 35mm	12-1.50 x 25mm	12-1.75 x 50mm
8-1.00	12-1.75	8mm	8mm	6-1.00 x 16mm	8-1.25 x 20mm	10-1.00 x 20mm	10-1.50 x 35mm	12-1.75 x 30mm	
8-1.25		10mm	10mm	6-1.00 x 20mm	8-1.00 x 25mm	10-1.00 x 25mm	10-1.00 x 40mm	12-1.50 x 35mm	
10-1.50		12mm	12mm	8-1.25 x 10mm	8-1.25 x 30mm	10-1.50 x 25mm	10-1.50 x 40mm	12-1.75 x 40mm	
10-1.00				8-1.00 x 16mm	8-1.00 x 35mm	10-1.00 x 30mm	10-1.00 x 50mm	12-1.50 x 40mm	

Numbers in assortment

METRIC CLASS 10.9 USS (COARSE) THREAD FASTENERS

- **Manufactured from medium carbon alloy steel for a minimum tensile strength of 170,000 PSI.**
- **Includes cap screws, nuts, flat and lock washers.**
- **Sizes 6mm through 16mm.**

Part No. 630150 • 174 pieces • 37 items • 12044 plastic tray

HEX NUTS	LOCK WASHERS	FLAT WASHERS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
5-.80	5mm	5mm	5-.80 x 20mm	6-1.00 x 30mm	8-1.25 x 30mm	10-1.50 x 40mm
6-1.00	6mm	6mm	5-.80 x 30mm	6-1.00 x 40mm	8-1.25 x 40mm	
8-1.25	8mm	8mm	6-1.00 x 10mm	6-1.00 x 50mm	8-1.25 x 50mm	
10-1.50	10mm	10mm	6-1.00 x 20mm	8-1.25 x 20mm	10-1.50 x 20mm	
			6-1.00 x 25mm	8-1.25 x 25mm	10-1.50 x 30mm	

Numbers in assortment

METRIC CLASS 10.9 USS (COARSE) THREAD FASTENERS

- **Manufactured from medium carbon alloy steel for a minimum tensile strength of 170,000 PSI.**
- **Includes cap screws, nuts, flat and lock washers.**
- **Sizes 8mm through 14mm.**

Part No. 501731 • 269 pieces • 31 items • 12062 steel tray

HEX NUTS	LOCK WASHERS	FLAT WASHERS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
8-1.00	8mm	8mm	8-1.00 x 20mm	10-1.00 x 30mm	10-1.25 x 50mm	12-1.50 x 50mm
10-1.00	10mm	10mm	8-1.00 x 30mm	10-1.25 x 30mm	12-1.50 x 25mm	14-1.50 x 35mm
10-1.25	12mm	12mm	8-1.00 x 35mm	10-1.00 x 35mm	12-1.50 x 30mm	14-1.50 x 50mm
12-1.25	14mm	14mm	8-1.00 x 40mm	10-1.00 x 40mm	12-1.50 x 35mm	
14-1.50			10-1.00 x 20mm	10-1.00 x 50mm	12-1.50 x 40mm	

Numbers in assortment

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METRIC HEX HEAD CAP SCREWS

CLASS 10.9 USS (COARSE) THREAD

- DIN 931 & 933.
- Comparable to Grade 8 strength in Fractional Hardware.
- Longer lengths may be partially threaded.

	DIA. 6mm PITCH 1.00		DIA. 8mm PITCH 1.25		DIA. 10mm PITCH 1.50		DIA. 12mm PITCH 1.75		DIA. 14mm PITCH 2.00		DIA. 16mm PITCH 2.00		DIA. 20mm PITCH 2.50		DIA. 24mm PITCH 3.00	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
12mm	630275	25	---	-	---	-	---	-	---	-	---	-	---	-	---	-
14mm	630276	25	---	-	---	-	---	-	---	-	---	-	---	-	---	-
16mm	630110	25	630279	25	630285	12	---	-	---	-	---	-	---	-	---	-
18mm	630116	25	630126	25	---	-	---	-	---	-	---	-	---	-	---	-
20mm	630111	25	630119	25	630128	12	630288	12	---	-	---	-	---	-	---	-
25mm	630112	25	630280	25	630129	12	630139	12	630295	6	---	-	---	-	---	-
30mm	630277	25	630120	25	630130	12	630140	12	630151	6	630167	6	---	-	---	-
35mm	630278	25	630281	25	630131	12	630141	12	630296	6	630299	6	---	-	---	-
40mm	630113	25	630121	25	630132	12	630142	12	630153	6	630161	6	630418	3	630321	3
45mm	630114	25	630122	25	630401	12	630289	12	630408	6	630300	6	630419	3	630336	3
50mm	630115	25	630123	25	630133	12	630143	12	630154	6	630162	6	630307	3	630322	3
55mm	---	-	630282	25	630402	12	630290	12	630409	6	630301	6	630308	3	630337	3
60mm	---	-	630124	25	630134	12	630144	12	630155	6	630163	6	630309	3	630323	3
65mm	---	-	630283	25	630403	12	630291	6	630410	6	630302	6	630310	3	630338	3
70mm	---	-	630125	25	630135	12	630145	6	630156	6	630164	6	630311	3	630324	3
75mm	---	-	630284	12	630404	12	630292	6	630411	6	630303	6	630312	3	630339	3
80mm	---	-	---	-	630136	12	630146	6	630157	6	630165	6	630313	3	630325	3
90mm	---	-	---	-	630286	6	630147	3	630297	3	630304	3	630314	3	630326	3
100mm	---	-	---	-	630287	3	630148	3	630158	3	630166	3	630315	3	630327	3
110mm	---	-	---	-	630405	3	630393	3	630298	3	630305	3	630316	2	630328	2
120mm	---	-	---	-	630406	3	630294	3	630159	3	630306	3	630317	2	630329	2
130mm	---	-	---	-	630407	3	---	-	---	-	630412	3	630318	2	630330	2
140mm	---	-	---	-	---	-	---	-	---	-	630413	3	630319	2	630331	2
150mm	---	-	---	-	---	-	---	-	---	-	630414	3	630320	2	630332	2
160mm	---	-	---	-	---	-	---	-	---	-	630415	3	630420	2	630333	2
180mm	---	-	---	-	---	-	---	-	---	-	630416	3	630421	2	630334	2
200mm	---	-	---	-	---	-	---	-	---	-	630417	3	630422	2	630335	2

	HEX NUT CLASS 10 DIN 934		FLAT WASHER CLASS 10 DIN 125		LOCK WASHER 8.8 & 10.9* DIN 127	
SIZE	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	630170	100	630180	100	532020	200
8mm	630171	100	630181	100	532022	200
10mm	630172	100	630182	100	532023	200
12mm	630173	50	630183	50	532024	200
14mm	630174	25	630184	25	532025	200
16mm	630175	25	630185	25	553379	100
20mm	630176	10	630186	10	553381	100
24mm	630177	10	630187	10	553382	100

* Compatible with 8.8 and 10.9 fastening systems according to IFI standards.

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METRIC HEX HEAD CAP SCREWS

CLASS 10.9 FINE (SAE) THREAD

- DIN 961 & 960.
- Comparable to Grade 8 strength in Fractional Hardware.
- Longer lengths may be partially threaded.

	DIA. 8mm PITCH 1.00		DIA. 10mm PITCH 1.00		DIA. 10mm PITCH 1.25		DIA. 12mm PITCH 1.25		DIA. 14mm PITCH 1.50		DIA. 14mm PITCH 1.50		DIA. 16mm PITCH 1.50		DIA. 20mm PITCH 1.50	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
16mm	630501	25	---	-	630530	10	---	-	---	-	---	-	---	-	---	-
20mm	630502	25	630514	10	630531	10	630549	10	---	-	---	-	---	-	---	-
25mm	630503	25	630515	10	630532	10	630550	10	630565	10	630581	5	630597	5	---	-
30mm	630504	25	630516	10	630533	10	630551	10	630566	10	630582	5	630598	5	---	-
35mm	630505	25	630517	10	630534	10	630552	10	630567	10	630583	5	630599	5	---	-
40mm	630506	25	630518	10	630535	10	630553	10	630568	10	630584	5	630600	5	630607	2
45mm	630507	25	---	-	630536	10	630554	10	630569	10	630585	5	630601	5	630608	2
50mm	630508	25	630519	10	630537	10	630555	10	630570	10	630586	5	630602	5	630609	2
55mm	630509	25	630520	10	630538	10	630556	10	630571	10	630587	5	630603	5	630610	2
60mm	630510	25	630521	10	630539	10	630557	10	630572	10	630588	5	630604	5	630611	2
65mm	630511	25	630522	10	630540	10	630558	5	630573	5	630589	5	630605	5	630612	2
70mm	630512	25	630523	10	630541	10	630559	5	630574	5	630590	5	630606	5	630613	2
75mm	630513	25	630524	10	630542	10	630560	5	630575	5	630591	5	---	-	630614	2
80mm	---	-	630525	10	630543	10	630561	5	630576	5	630592	5	---	-	630615	2
90mm	---	-	630526	5	630544	5	630562	5	630577	5	630593	2	---	-	630616	2
100mm	---	-	630527	5	630545	5	630563	5	630578	5	630594	2	---	-	630617	2
110mm	---	-	630528	5	630546	5	---	-	---	-	630595	2	---	-	630618	2
120mm	---	-	630529	5	630547	5	630564	5	630579	5	630596	2	---	-	630619	2
130mm	---	-	---	-	630548	5	---	-	---	-	---	-	---	-	---	-
140mm	---	-	---	-	---	-	---	-	---	-	---	-	---	-	630620	2
150mm	---	-	---	-	---	-	---	-	---	-	---	-	---	-	630621	2
160mm	---	-	---	-	---	-	---	-	---	-	---	-	---	-	630622	2
180mm	---	-	---	-	---	-	---	-	---	-	---	-	---	-	630623	2
200mm	---	-	---	-	---	-	---	-	---	-	---	-	---	-	630624	2

	HEX NUT CLASS 10 DIN 934		FLAT WASHER CLASS 10 DIN 125		LOCK WASHER 8.8 & 10.9* DIN 127	
SIZE-PITCH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
8mm x 1.00	630640	100	630181	100	532022	200
10mm x 1.00	630641	100	630182	100	532023	200
10mm x 1.25	630642	100	630182	100	532023	200
12mm x 1.25	630643	50	630183	50	532024	200
12mm x 1.50	630644	50	630183	50	532024	200
14mm x 1.50	630645	25	630184	25	532025	200
16mm x 1.50	630646	25	630185	25	553379	100
20mm x 1.50	630647	10	630186	10	553381	100

*** Compatible with 8.8 and 10.9 fastening systems according to IFI standards.**

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METRIC HEX HEAD CAP SCREWS

CLASS 8.8 USS (COARSE) THREAD (FULL THREAD)

Protected by **LUSTERPLATE™** against rust & corrosion

8.8

- DIN 933.
- Longer lengths may be unplated.
- Comparable to Grade 5 strength in Standard Hardware.

	DIA. 4mm PITCH .70		DIA. 5mm PITCH .80		DIA. 6mm PITCH 1.00		DIA. 7mm PITCH 1.00		DIA. 8mm PITCH 1.25		DIA. 10mm PITCH 1.50	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
10mm	553701*	50	553212*	100	553222*	100	553300*	50	553240*	50	---	-
12mm	553450*	50	553213*	100	553223*	100	553301*	50	553241*	50	---	-
16mm	553210*	100	553214*	100	553224*	100	553302*	50	553242*	50	553253*	25
18mm	553702*	50	553704*	50	553706*	50	---	-	553458*	50	---	-
20mm	553211*	100	553215*	100	553225*	100	553303*	50	553243*	50	553254*	25
22mm	553703*	50	553705*	50	553707*	50	553308*	25	553459*	50	553709*	12
25mm	---	-	553216*	100	553226*	100	553304*	50	553244*	50	553255*	25
30mm	---	-	553217FT	100	553227FT	100	553305FT	50	553245*	50	553256*	25
35mm	---	-	553218FT	100	553228FT	100	553306FT	50	553246FT	50	553462*	25
40mm	---	-	553219FT	100	553229FT	50	553307FT	50	553247FT	50	553257FT	25
45mm	---	-	553220FT	100	553230FT	50	---	-	553248FT	50	553710FT	12
50mm	---	-	553451FT	50	553231FT	50	---	-	553249FT	50	553258FT	25
55mm	---	-	---	-	---	-	---	-	---	-	553711FT	12
60mm	---	-	553452FT	25	553232FT	50	---	-	553250FT	50	553259FT	25
65mm	---	-	---	-	---	-	---	-	---	-	553712FT	12
70mm	---	-	553453FT	25	553454FT	25	---	-	553251FT	50	553260FT	25
75mm	---	-	---	-	553708FT	25	---	-	553460FT	25	553713FT	12
80mm	---	-	---	-	553455FT	25	---	-	553252FT	25	553261FT	25
90mm	---	-	---	-	553456FT	25	---	-	553461FT	12	553463FT	25
100mm	---	-	---	-	553457FT	12	---	-	553233FT	25	553262FT	25

	DIA. 12mm PITCH 1.75		DIA. 14mm PITCH 2.00		DIA. 16mm PITCH 2.00		DIA. 20mm PITCH 2.50	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
20mm	553263*	25	553272*	12	---	-	---	-
25mm	553264*	25	553273*	12	553310*	12	---	-
30mm	553265*	25	553274*	12	553311*	12	---	-
35mm	553464*	25	553473*	12	553312*	12	---	-
40mm	553266FT	25	553275*	12	553313*	12	553341*	6
45mm	553714FT	12	553480*	6	553314*	12	553357*	3
50mm	553267FT	25	553276FT	12	553315FT	12	553342*	6
55mm	553465FT	25	553481FT	6	553316FT	12	553343*	6
60mm	553268FT	25	553277FT	12	553317FT	12	553344*	6
65mm	553466FT	12	553482FT	6	553318FT	12	553345FT	6
70mm	553269FT	12	553278FT	12	553319FT	12	553346FT	6
75mm	553467FT	12	553483FT	6	553320FT	12	553347FT	6
80mm	553270FT	12	553279FT	12	553321FT	12	553348FT	6
90mm	553468FT	12	553474FT	12	553322FT	12	553349FT	6
100mm	553271FT	6	553280FT	12	553323FT	6	553350FT	6
110mm	553469FT	6	553475FT	6	553324FT	6	553351FT	6
120mm	553470FT	6	553476FT	6	553325FT	6	553252FT	6
130mm	553471FT	6	553477FT	3	553326FT	6	553253FT	6
140mm	553472FT	3	553478FT	3	553327FT	6	553254FT	6
150mm	553715FT	3	553479FT	3	553328FT	6	553255FT	6

*** Items are only available fully threaded.**
DO NOT add the letters "FT" after these part numbers.

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METRIC HEX HEAD CAP SCREWS

CLASS 8.8 USS (COARSE) THREAD (PARTIAL THREAD)

Protected by
LUSTERPLATE™
against rust & corrosion

8.8

- **DIN 931.**
- **Longer lengths may be unplated.**
- **Comparable to Grade 5 strength in Standard Hardware.**

	DIA. 4mm PITCH .70		DIA. 5mm PITCH .80		DIA. 6mm PITCH 1.00		DIA. 7mm PITCH 1.00		DIA. 8mm PITCH 1.25		DIA. 10mm PITCH 1.50	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
10mm	553701*	50	553212*	100	553222*	100	553300*	50	553240*	50	---	-
12mm	553450*	50	553213*	100	553223*	100	553301*	50	553241*	50	---	-
16mm	553210*	100	553214*	100	553224*	100	553302*	50	553242*	50	553253*	25
18mm	553702*	50	553704*	50	553706*	50	---	-	553458*	50	---	-
20mm	553211*	100	553215*	100	553225*	100	553303*	50	553243*	50	553254*	25
22mm	553703*	50	553705*	50	553707*	50	553308*	25	553459*	50	553709*	12
25mm	---	-	553216*	100	553226*	100	553304*	50	553244*	50	553255*	25
30mm	---	-	553217	100	553227	100	553305	50	553245*	50	553256*	25
35mm	---	-	553218	100	553228	100	553306	50	553246	50	553462*	25
40mm	---	-	553219	100	553229	50	553307	50	553247	50	553257	25
45mm	---	-	553220	100	553230	50	---	-	553248	50	553710	12
50mm	---	-	553451	50	553231	50	---	-	553249	50	553258	25
55mm	---	-	---	-	---	-	---	-	---	-	553711	12
60mm	---	-	553452	25	553232	50	---	-	553250	50	553259	25
65mm	---	-	---	-	---	-	---	-	---	-	553712	12
70mm	---	-	553453	25	553454	25	---	-	553251	50	553260	25
75mm	---	-	---	-	553708	25	---	-	553460	25	553713	12
80mm	---	-	---	-	553455	25	---	-	553252	25	553261	25
90mm	---	-	---	-	553456	25	---	-	553461	12	553463	25
100mm	---	-	---	-	553457	12	---	-	553233	25	553262	25

	DIA. 12mm PITCH 1.75		DIA. 14mm PITCH 2.00		DIA. 16mm PITCH 2.00		DIA. 18mm PITCH 2.50		DIA. 20mm PITCH 2.50	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
20mm	553263*	25	553272*	12	---	-	---	-	---	-
25mm	553264*	25	553273*	12	553310*	12	---	-	---	-
30mm	553265*	25	553274*	12	553311*	12	553716	3	---	-
35mm	553464*	25	553473*	12	553312*	12	553717	3	---	-
40mm	553266	25	553275*	12	553313*	12	553333	6	553341*	6
45mm	553714	12	553480*	6	553314*	12	553718	3	553357*	3
50mm	553267	25	553276	12	553315	12	553334	6	553342*	6
55mm	553465	25	553481	6	553316	12	553719	3	553343*	6
60mm	553268	25	553277	12	553317	12	553335	6	553344*	6
65mm	553466	12	553482	6	553318	12	553720	3	553345	6
70mm	553269	12	553278	12	553319	12	553336	6	553346	6
75mm	553467	12	553483	6	553320	12	553721	3	553347	6
80mm	553270	12	553279	12	553321	12	553337	6	553348	6
90mm	553468	12	553474	12	553322	12	553338	6	553349	6
100mm	553271	6	553280	12	553323	6	553339	3	553350	6
110mm	553469	6	553475	6	553324	6	553340	3	553351	6
120mm	553470	6	553476	6	553325	6	553722	3	553252	6
130mm	553471	6	553477	3	553326	6	553723	3	553253	6
140mm	553472	3	553478	3	553327	6	553724	3	553254	6
150mm	553715	3	553479	3	553328	6	553725	3	553255	6

*** Items are only available fully threaded.**

HOW TO DETERMINE AMOUNT OF THREADS

For cap screws up to 125mm in length: amount of threads equals twice the diameter plus 6mm.

For cap screws over 125mm in length: amount of threads equals twice the diameter plus 12mm.

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METRIC HEX HEAD CAP SCREWS

CLASS 8.8 USS (COARSE) THREAD

Protected by **LUSTERPLATE™** against rust & corrosion

8.8

	HEX NUT CLASS 8 DIN 934		FLAT WASHER CLASS 8 DIN 125		LOCK WASHER CLASS 8.8 & 10.9* DIN 127	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
4mm	553291	200	532009	200	532018	200
5mm	553292	200	532010	200	532019	200
6mm	553293	200	532011	200	532020	200
7mm	553359	200	532012	200	532021	200
8mm	553295	200	532013	200	532022	200
10mm	553296	100	532014	200	532023	200
12mm	553297	50	532015	200	532024	200
14mm	553298	25	532016	200	532025	200
16mm	553360	50	553376	100	553379	100
18mm	553361	25	553377	100	553380	100
20mm	553362	25	553378	100	553381	100

*** Compatible with 8.8 and 10.9 fastening systems according to IFI standards.**

CLASS 8.8 SAE (FINE) THREAD

Protected by **LUSTERPLATE™** against rust & corrosion

8.8

	DIA. 8mm PITCH 1.00		DIA. 10mm PITCH 1.00		DIA. 10mm PITCH 1.25		DIA. 12mm PITCH 1.25		DIA. 12mm PITCH 1.50		DIA. 14mm PITCH 1.50	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
16mm	553821	50	553827	25	553834	25	---	-	---	-	---	-
20mm	553822	50	553828	25	553835	25	554003	25	553883	25	---	-
25mm	553823	50	553829	25	553836	25	553841	25	553846	25	553888	10
30mm	553824	25	553830	25	553837	25	553842	25	553847	25	553889	10
35mm	553825	25	553831	25	553838	25	553843	25	553848	25	553851	12
40mm	553826	25	553832	25	553839	25	553844	12	553849	12	553852	12
45mm	553898	25	554001	25	554002	25	554004	10	553884	10	553890	10
50mm	553854	25	553833	25	553840	25	553845	12	553850	12	553853	12
55mm	---	-	---	-	---	-	554005	10	553885	10	553891	10
60mm	553855	12	553858	12	553862	12	553866	12	553870	12	553892	5
65mm	---	-	---	-	---	-	554006	10	553886	10	553893	5
70mm	553856	12	553859	12	553863	12	553867	12	553880	12	553894	5
75mm	---	-	---	-	---	-	554007	10	553887	10	553895	5
80mm	553857	12	553860	12	553864	12	553868	6	553881	6	553896	5
100mm	553899	10	553861	12	553865	12	553869	6	553882	5	553897	5

- **DIN 960 & 961.**
- **Comparable to Grade 5 strength in Standard Hardware.**

	HEX NUT DIN 934	
SIZE-PITCH	PART NUMBER	QTY
8mm x 1.00	553871	200
10mm x 1.00	553872	100
10mm x 1.25	553873	100
12mm x 1.25	553876	50
12mm x 1.50	553874	50
14mm x 1.50	553875	25

	FLAT WASHER DIN 125		LOCK WASHER DIN 127	
SIZE	PART NUMBER	QTY	PART NUMBER	QTY
8mm	532013	200	532022	200
10mm	532014	200	532023	200
12mm	532015	200	532024	200
14mm	532015	200	532025	200

"SMALL HEAD" (JIS) JAPANESE METRIC CAP SCREWS, NUTS

Fits Japanese cars, trucks and motorcycles.

	DIA. 8mm PITCH 1.25 WRENCH: 12mm		DIA. 10mm PITCH 1.25 WRENCH: 14mm		DIA. 12mm PITCH 1.25 WRENCH: 17mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
12mm	553405	50	---	-	---	-
16mm	553406	50	---	-	---	-
20mm	553408	50	553417	25	553424	25
25mm	553409	50	553418	25	553425	25
30mm	553410	50	553419	25	553426	25
35mm	553411	50	553420	25	553443	10
40mm	553412	50	553421	25	553427	25
45mm	553413	50	553422	25	---	-
50mm	553414	50	553423	25	553428	25
55mm	553415	50	553436	25	---	-
60mm	553416	50	553437	25	553444	10
70mm	553429	25	553438	10	553445	10
80mm	553430	25	553439	10	553446	10
90mm	553431	25	553440	10	553447	10
100mm	553432	25	553441	10	553448	10

Protected by **LUSTERPLATE™** against rust & corrosion

8.8

	HEX NUT		FLAT WASHER		LOCK WASHER	
SIZE	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
8mm	553402	100	532013	200	532022	200
10mm	553403	50	532014	200	532023	200
12mm	553404	50	532015	200	532024	200

- **Class 8.8.**
- **Comparable to Grade 5 strength in Standard Hardware.**

Size: 8mm through 12mm diameters USS (COARSE) & SAE (FINE)
Part No. 553400L • 396 pieces • 23 items • 12017 steel tray

553402	553405	553409	553412	553415	553419	553422	553426
553403	553406	553410	553413	553417	553420	553424	553427
553404	553408	553411	553414	553418	553421	553425	

1/2 QUANTITY AVAILABLE ORDER NO. 553400M
Numbers in assortment

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METRIC CAP SCREWS

USS (COARSE) THREAD METRIC SOCKET HEAD CAP SCREWS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Class 12.9 - DIN 912.**
- **Full finished deep socket for greater wrenching leverage.**
- **Heat treated alloy steel, minimum 170,000 PSI tensile strength.**

	DIA. 3mm PITCH .50 KEY SIZE: 2.5mm		DIA. 4mm PITCH .70 KEY SIZE: 3mm		DIA. 5mm PITCH .80 KEY SIZE: 4mm		DIA. 6mm PITCH 1.00 KEY SIZE: 5mm		DIA. 8mm PITCH 1.25 KEY SIZE: 6mm		DIA. 10mm PITCH 1.50 KEY SIZE: 8mm		DIA. 12mm PITCH 1.75 KEY SIZE: 10mm		DIA. 14mm PITCH 2.00 KEY SIZE: 12mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	532850	25	532837	50	532839	50	---	-	---	-	---	-	---	-	---	-
8mm	532851	25	532838	50	532840	50	532842	50	---	-	---	-	---	-	---	-
10mm	532852	25	532350	50	532354	50	532359	50	---	-	---	-	---	-	---	-
12mm	532853	25	532351	50	532355	50	532360	50	532374	50	---	-	---	-	---	-
16mm	532854	25	532352	50	532356	50	532361	50	532375	50	532381	50	---	-	---	-
18mm	---	-	---	-	532855	25	532858	25	---	-	---	-	---	-	---	-
20mm	---	-	532353	50	532357	50	532362	50	532376	50	532382	50	---	-	---	-
25mm	---	-	532395	50	532856	25	532363	50	532377	50	532383	50	532388	30	---	-
30mm	---	-	532396	50	532358	50	532364	50	532378	50	532384	50	532389	30	532872	10
35mm	---	-	---	-	532857	25	532365	50	532843	50	532862	25	532867	10	532873	10
40mm	---	-	---	-	532841	50	532366	50	532379	50	532385	50	532390	30	532874	10
45mm	---	-	---	-	---	-	532367	50	532844	50	532863	25	532868	10	532875	10
50mm	---	-	---	-	---	-	532368	50	532380	50	532386	50	532391	30	532876	10
55mm	---	-	---	-	---	-	532369	50	532859	25	532864	25	532869	10	532877	10
60mm	---	-	---	-	---	-	532370	50	532845	50	532387	50	532392	30	532878	10
65mm	---	-	---	-	---	-	532371	50	532860	10	532865	25	532870	10	532879	5
70mm	---	-	---	-	---	-	532372	50	532846	10	532848	10	532393	30	532880	5
75mm	---	-	---	-	---	-	532373	50	532861	10	532866	10	532871	10	532881	5
80mm	---	-	---	-	---	-	---	-	532847	10	532849	10	532394	30	532882	5

Size: 4 x 10mm through 8 x 50mm
Part No. 501081
460 pieces • 23 items
12017 steel tray

532350	532354	532359	532363	532374	532378
532351	532355	532360	532364	532375	532379
532352	532356	532361	532366	532376	532380
532353	532357	532362	532368	532377	

Numbers in assortment

	DIA. 16mm PITCH 2.00 KEY SIZE: 14mm	
LENGTH	PART NUMBER	QTY
30mm	532883	10
35mm	532884	10
40mm	532885	10
45mm	532886	10
50mm	532887	10
55mm	532888	10
60mm	532889	10
65mm	532890	5
70mm	532891	5
75mm	532892	5
80mm	532893	5

A16

USS (COARSE) THREAD METRIC LOW HEAD SOCKET CAP SCREWS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

Specifically for use in parts too thin for standard height socket cap screws and for applications with limited clearances.

- **Class 8.8 - DIN 7984.**
- **Heat treated alloy steel, minimum 128,000 PSI tensile strength.**
- **Head height 1/2 of standard head metric cap screw.**

	DIA. 3mm PITCH .50 KEY SIZE: 2.5mm		DIA. 4mm PITCH .70 KEY SIZE: 3mm		DIA. 5mm PITCH .80 KEY SIZE: 4mm		DIA. 6mm PITCH 1.00 KEY SIZE: 5mm		DIA. 8mm PITCH 1.25 KEY SIZE: 6mm		DIA. 10mm PITCH 1.50 KEY SIZE: 8mm		DIA. 12mm PITCH 1.75 KEY SIZE: 10mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
5mm	533600	25	---	-	---	-	---	-	---	-	---	-	---	-
6mm	533601	25	533608	25	533615	25	---	-	---	-	---	-	---	-
8mm	533602	25	533609	25	533616	25	533623	25	---	-	---	-	---	-
10mm	533603	25	533610	25	533617	25	533624	25	533630	25	---	-	---	-
12mm	533604	25	533611	25	533618	25	533625	25	533631	25	---	-	---	-
16mm	533605	25	533612	25	533619	25	533626	25	533632	25	533640	10	---	-
20mm	533606	25	533613	25	533620	25	533627	25	533633	25	533641	10	533648	10
25mm	533607	25	533614	25	533621	25	533628	25	533634	25	533642	10	533649	10
30mm	---	-	---	-	533622	25	533629	25	533635	25	533643	10	533650	10
35mm	---	-	---	-	---	-	---	-	533636	10	533644	10	533651	10
40mm	---	-	---	-	---	-	---	-	533637	10	533645	10	533652	10
45mm	---	-	---	-	---	-	---	-	533638	10	533646	10	533653	10
50mm	---	-	---	-	---	-	---	-	533639	10	533647	10	533654	10

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METRIC CAP SCREWS

METRIC SOCKET HEAD SHOULDER SCREWS

- Heat treated alloy steel 12.9.
- Coarse threads.
- DIN 7379.
- Knurled head for sure grip.
- Minimum tensile strength: 174,000 PSI
- Meets ASME/ANSI B18.3.4M.

MOVING SHAFT OR PIVOT

STATIONARY GUIDE

PULLEY SHAFT USES

SHLDER. LENGTH	DIA. 6mm Shoulder THRD. 5-.8mm THRD. LGTH.: 9.75 KEY SIZE: 3mm PART NUMBER	QTY	DIA. 8mm Shoulder THRD. 6-1.0mm THRD. LGTH.: 11.25 KEY SIZE: 4mm PART NUMBER	QTY	DIA. 10mm Shoulder THRD. 8-1.25mm THRD. LGTH.: 13.25 KEY SIZE: 5mm PART NUMBER	QTY	DIA. 12mm Shoulder THRD. 10-1.50mm THRD. LGTH.: 16.40 KEY SIZE: 6mm PART NUMBER	QTY
10mm	533750	10	---	-	---	-	---	-
12mm	533751	10	533758	10	---	-	---	-
16mm	533752	10	533759	10	533766	10	533775	5
20mm	533753	10	533760	10	533767	10	533776	5
25mm	533754	10	533761	10	533768	10	533777	5
30mm	533755	10	533762	10	533769	10	533778	5
40mm	533756	10	533763	10	533770	10	533779	5
50mm	533757	10	533764	10	533771	10	533780	5
60mm	---	-	533765	10	533772	5	533781	5
70mm	---	-	---	-	533773	5	533782	5
80mm	---	-	---	-	533774	5	533783	5

Part No. 501721
113 pieces • 18 items • 12071 steel tray

533750	533759	533768	533778
533751	533760	533769	533779
533752	533761	533770	533780
533753	533762	533771	
533758	533767	533777	

Numbers in assortment

FLAT HEAD SOCKET CAP SCREWS

- Class 10.9 - DIN 7991.
- Countersunk head for flush applications.
- Minimum 150,000 PSI tensile strength.
- Coarse threads.
- Full finished deep socket for greater wrenching leverage.

Protected by **BLACK OXIDE FINISH™** against rust & corrosion

LENGTH	DIA. 3mm PITCH .50 KEY SIZE: 2mm PART NUMBER	QTY	DIA. 4mm PITCH .70 KEY SIZE: 2.5mm PART NUMBER	QTY	DIA. 5mm PITCH .80 KEY SIZE: 3mm PART NUMBER	QTY	DIA. 6mm PITCH 1.00 KEY SIZE: 4mm PART NUMBER	QTY	DIA. 8mm PITCH 1.25 KEY SIZE: 5mm PART NUMBER	QTY	DIA. 10mm PITCH 1.50 KEY SIZE: 6mm PART NUMBER	QTY	DIA. 12mm PITCH 1.75 KEY SIZE: 8mm PART NUMBER	QTY	DIA. 16mm PITCH 2.00 KEY SIZE: 10mm PART NUMBER	QTY
6mm	532950	25	---	-	---	-	---	-	---	-	---	-	---	-	---	-
8mm	532951	25	532956	25	532962	25	---	-	---	-	---	-	---	-	---	-
10mm	532952	25	532957	25	532963	25	532969	25	---	-	---	-	---	-	---	-
12mm	532953	25	532958	25	532964	25	532970	25	532977	25	---	-	---	-	---	-
16mm	532954	25	532959	25	532965	25	532971	25	532978	25	532985	-	---	-	---	-
20mm	532955	25	532960	25	532966	25	532972	25	532979	25	532986	10	532992	10	---	-
25mm	---	-	532961	25	532967	25	532973	25	532980	25	532987	10	532993	10	---	-
30mm	---	-	---	-	532968	25	532974	25	532981	25	532988	10	532994	10	533400	5
35mm	---	-	---	-	---	-	532975	25	532982	25	532989	10	532995	10	533401	5
40mm	---	-	---	-	---	-	532976	25	532983	25	532990	10	532996	10	533402	5
45mm	---	-	---	-	---	-	---	-	---	-	---	-	532997	10	533403	5
50mm	---	-	---	-	---	-	---	-	532984	25	532991	10	532998	10	533404	5
60mm	---	-	---	-	---	-	---	-	---	-	---	-	---	-	533405	5

LENGTH	DIA. 20mm PITCH 2.50 KEY SIZE: 12mm PART NUMBER	QTY
35mm	533406	5
40mm	533407	5
45mm	533408	5
50mm	533409	5
60mm	533410	5

Size: 3 x 8mm through 12 x 30mm
Part No. 501505
370 pieces • 23 items
12017 steel tray

532951	532958	532966	532978	532985	532992
532952	532959	532971	532979	532986	532993
532953	532964	532972	532980	532987	532994
532957	532965	532973	532981	532988	

Numbers in assortment

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METRIC CAP SCREWS and FLANGE BOLTS

BUTTON HEAD SOCKET CAP SCREWS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Class 10.9. DIN 9427.**
- **Full finished deep socket for greaterwrenching leverage.**
- **Minimum 150,000 PSI tensile strength.**
- **Coarse threads.**

	DIA. 3mm PITCH .50 KEY SIZE: 2mm		DIA. 4mm PITCH .70 KEY SIZE: 2.5mm		DIA. 5mm PITCH .80 KEY SIZE: 3mm		DIA. 6mm PITCH 1.00 KEY SIZE: 4mm		DIA. 8mm PITCH 1.25 KEY SIZE: 5mm		DIA. 10mm PITCH 1.50 KEY SIZE: 6mm		DIA. 12mm PITCH 1.75 KEY SIZE: 8mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	**532900**	25	---	-	---	-	---	-	---	-	---	-	---	-
8mm	**532901**	25	**532905**	25	---	-	---	-	---	-	---	-	---	-
10mm	**532902**	25	**532906**	25	**532909**	25	**532915**	25	**532921**	25	---	-	---	-
12mm	**532903**	25	**532907**	25	**532910**	25	**532916**	25	**532922**	25	---	-	---	-
16mm	**532904**	25	**532908**	25	**532911**	25	**532917**	25	**532923**	25	**532929**	10	**532935**	5
20mm	---	-	---	-	**532912**	25	**532918**	25	**532924**	10	**532930**	10	**532936**	5
25mm	---	-	---	-	**532913**	25	**532919**	25	**532925**	10	**532931**	10	**532937**	5
30mm	---	-	---	-	**532914**	25	**532920**	25	**532926**	10	**532932**	10	**532938**	5
35mm	---	-	---	-	---	-	---	-	**532927**	10	**532933**	10	**532939**	5
40mm	---	-	---	-	---	-	---	-	**532928**	10	**532934**	10	**532940**	5
45mm	---	-	---	-	---	-	---	-	---	-	---	-	**532941**	5
50mm	---	-	---	-	---	-	---	-	---	-	---	-	**532942**	5

Size: 3 x 16mm through 12 x 30mm
Part No. 501506
370 pieces • 23 items
12017 steel tray

532900	532907	532912	532923	532929	532936
532901	532908	532917	532924	532930	532937
532902	532910	532918	532925	532931	532938
532906	532911	532919	532926	532932	

Numbers in assortment

CLASS 10.9 HEX FLANGE BOLTS

- **DIN 6921.**
- **Minimum 150,000 PSI tensile strength.**
- **Flanged head design distributes load evenly over a larger area.**
- **Flat washers are not necessary.**

10.9

Size: 6 x 16mm through 16 x 50mm
Includes flange nuts
Part No. 501718
232 pieces • 23 items
12017 steel tray

532470	532474	533704	533711	533715	533722
532471	533700	533705	533712	533719	533726
532472	533701	533706	533713	533720	533727
532473	533702	533707	533714	533721	

Numbers in assortment

	DIA. 6mm PITCH 1.00 WRENCH: 10mm FLANGE DIA. 14.2mm		DIA. 8mm PITCH 1.25 WRENCH: 13mm FLANGE DIA. 18mm		DIA. 10mm PITCH 1.50 WRENCH: 15mm FLANGE DIA. 22.3mm		DIA. 12mm PITCH 1.75 WRENCH: 16mm FLANGE DIA. 26.6mm		DIA. 16mm PITCH 2.00 WRENCH: 21mm FLANGE DIA. 35mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
16mm	**533700**	10	---	-	---	-	---	-	---	-
20mm	**533701**	10	**533704**	10	**533710**	10	---	-	---	-
25mm	**533702**	10	**533705**	10	**533711**	10	---	-	---	-
30mm	**533703**	10	**533706**	10	**533712**	10	**533719**	3	---	-
35mm	---	-	**533707**	10	**533713**	10	**533720**	6	---	-
40mm	---	-	**533708**	10	**533714**	10	**533721**	3	**533726**	5
50mm	---	-	**533709**	10	**533715**	10	**533722**	6	**533727**	5
60mm	---	-	---	-	**533716**	5	**533723**	5	**533728**	5
70mm	---	-	---	-	**533717**	5	**533724**	5	**533729**	5
80mm	---	-	---	-	**533718**	5	**533725**	5	**533730**	5
	FLANGE NUTS		FLANGE NUTS		FLANGE NUTS		FLANGE NUTS		FLANGE NUTS	
	532470	25	**532471**	25	**532472**	25	**532473**	25	**532474**	10

A16

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METRIC FLANGE BOLTS

CLASS 8.8 HEX FLANGE BOLTS

- DIN 6921.
- Flanged head design distributes load evenly over a larger area.
- Minimum 116,000 PSI tensile strength.
- Flat washers are not necessary.

8.8

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. 6mm PITCH 1.00 WRENCH: 10mm		DIA. 8mm PITCH 1.25 WRENCH: 13mm		DIA. 10mm PITCH 1.50 WRENCH: 15mm		DIA. 12mm PITCH 1.75 WRENCH: 16mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
16mm	533670	10	533676	10	---	-	---	-
20mm	533671	10	533677	10	533684	10	---	-
25mm	533672	10	533678	10	533685	10	533691	10
30mm	533673	10	533679	10	533686	10	533692	10
35mm	533674	10	533680	10	533687	10	533693	10
40mm	533675	10	533681	10	533688	10	533694	10
50mm	---	-	533682	10	533689	10	533695	10
60mm	---	-	533683	10	533690	5	533696	5
	FLANGE NUTS	QTY	FLANGE NUTS	QTY	FLANGE NUTS	QTY	FLANGE NUTS	QTY
	532465	25	532466	25	532467	25	532468	25

CLASS 10.9 (JIS) SMALL HEAD HEX FLANGE BOLTS

10.9

Protected by **LUSTERPLATE™** against rust & corrosion

	DIA. 6mm PITCH 1.00 WRENCH: 10mm		DIA. 8mm PITCH 1.25 WRENCH: 12mm		DIA. 10mm PITCH 1.25 WRENCH: 14mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
10mm	553750	50	---	-	---	-
12mm	553751	50	553760	50	---	-
16mm	553752	50	553761	50	553771	25
20mm	553753	50	553762	25	553772	25
25mm	553754	50	553763	25	553773	25
30mm	553755	50	553764	25	553774	25
35mm	553756	50	553765	25	553775	25
40mm	553757	50	553766	25	553776	10
45mm	553758	25	553767	25	553777	10
50mm	553759	25	553768	25	553778	10
60mm	---	-	553769	25	553779	10
70mm	---	-	553770	25	553780	10
	HEX FLANGE NUTS	QTY	HEX FLANGE NUTS	QTY	HEX FLANGE NUTS	QTY
	630425	50	630426	50	630427	50

- Meets JIS-B 1189 specs.
- Minimum 150,000 PSI tensile strength.
- Flanged head design distributes load evenly over a larger area.
- Smaller head design is ideal when you have a clearance problem.

Part No. 501650
447 pieces • 23 items • 12017 steel tray

553751	553756	553764	553773	630425
553752	553757	553765	553774	630426
553753	553761	553766	553775	630427
553754	553762	553767	553776	
553755	553763	553772	553777	

Numbers in assortment

A16

FLANGE BOLTS

Protected by **BLACK OIL FINISH™** against rust & corrosion

	DIA. 6mm PITCH 1.00		DIA. 8mm PITCH 1.25	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY
25mm	717259	25	717269	25
	HEX FLANGE NUTS	QTY	HEX FLANGE NUTS	QTY
	717260	25	717270	25

- Class 9.8
- Phosphate and Oil Finish.

INDENTED HEX WASHER HEAD with CONE POINT (CA)

- Black Phosphate finish.
- Universal applications.

Protected by **BLACK OXIDE FINISH™** against rust & corrosion

SIZE	PART NUMBER	QTY
6.3 x 20mm	717263	25
6.3 x 25mm	717469	12
8 x 20mm	717268	25
8 x 25mm	717472	12

INDENTED HEX HEAD BOLT with LOOSE WASHER CONE POINT (CA)

Protected by **BLACK OXIDE FINISH™** against rust & corrosion

SIZE	PART NUMBER	WASHER O.D.	QTY
6 x 20mm	717467	17mm	12
6 x 25mm	717468	24mm	12
6.3 x 25mm	717470	18mm	12
6.3 x 25mm	717471	23mm	12
6.3 x 40mm	717264	17mm	25
8 x 25mm	717473	24mm	12
8 x 30mm	717474	24mm	12
10 x 40mm	717272	30mm	25

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METRIC NUTS

HEX JAM NUTS CLASS 4 - DIN 936

Protected by
LUSTERPLATE™
against rust & corrosion

Part No. 630104
309 pieces • 12 items • 12038 plastic tray

630255	630259	630262	630268
630256	630260	630266	630269
630257	630261	630267	630270

Numbers in assortment

SIZE-PITCH	PART NUMBER	THREAD TYPE	WIDTH A/F	HEIGHT	QTY
4mm-.70	**630255**	coarse	7mm	2.20mm	100
5mm-.80	**630256**	coarse	8mm	2.70mm	100
6mm-1.00	**630257**	coarse	10mm	3.20mm	100
7mm-1.00	**630258**	coarse	11mm	3.50mm	50
8mm-1.00	**630266**	fine	13mm	4.00mm	50
8mm-1.25	**630259**	coarse	13mm	4.00mm	50
10mm-1.00	**630267**	fine	16mm	5.00mm	25
10mm-1.50	**630260**	coarse	16mm	5.00mm	25
12mm-1.25	**630268**	fine	18mm	6.00mm	25
12mm-1.50	**630269**	fine	18mm	6.00mm	25
12mm-1.75	**630261**	coarse	18mm	6.00mm	25
14mm-1.50	**630270**	fine	21mm	7.00mm	10
14mm-2.00	**630262**	coarse	21mm	7.00mm	10
16mm-1.50	**630271**	fine	24mm	8.00mm	10
16mm-2.00	**630263**	coarse	24mm	8.00mm	10
18mm-1.50	**630272**	fine	27mm	9.00mm	10
18mm-2.50	**630264**	coarse	27mm	9.00mm	10
20mm-1.50	**630273**	fine	30mm	10.00mm	10
20mm-2.50	**630265**	coarse	30mm	10.00mm	10

METRIC FINISHED HEX NUTS CLASS 8 - DIN 934

Protected by
LUSTERPLATE™
against rust & corrosion

Part No. 553390
260 pieces • 12 items • 12038 plastic tray

553291	553295	553871	553874
553292	553296	553872	553875
553293	553297	553873	553876

Numbers in assortment

SIZE-PITCH	PART NUMBER	THREAD TYPE	WIDTH A/F	HEIGHT	QTY
3mm-.50	**553290**	coarse	6mm	2.8mm	200
4mm-.70	**553291**	coarse	7mm	3.2mm	200
5mm-.80	**553292**	coarse	8mm	4mm	200
6mm-1.00	**553293**	coarse	10mm	5mm	200
7mm-1.00	**553359**	coarse	11mm	5.5mm	200
8mm-1.00	**553871**	fine	13mm	6.5mm	200
8mm-1.25	**553295**	coarse	13mm	6.5mm	200
10mm-1.00	**553872**	fine	16mm	8mm	100
10mm-1.25	**553873**	fine	16mm	8mm	100
10mm-1.50	**553296**	coarse	16mm	8mm	100
12mm-1.25	**553876**	fine	18mm	10mm	50
12mm-1.50	**553874**	fine	18mm	10mm	50
12mm-1.75	**553297**	coarse	18mm	10mm	50
14mm-1.50	**553875**	fine	21mm	11mm	25
14mm-2.00	**553298**	coarse	21mm	11mm	25
16mm-2.00	**553360**	coarse	24mm	26.2mm	50
18mm-2.50	**553361**	coarse	27mm	29.5mm	25
20mm-2.50	**553362**	coarse	30mm	33mm	25

A16

CLASS 10.9 METRIC FINISHED HEX NUTS

- **Class 10 - Comparable to Grade 8**
- **For use with Class 10.9 cap screws and Class 10 washers.**
- **DIN 934/10.**

COARSE THREAD

SIZE-PITCH	PART NUMBER	QTY
6mm-1.00	**630170**	100
8mm-1.25	**630171**	100
10mm-1.50	**630172**	100
12mm-1.75	**630173**	50
14mm-2.00	**630174**	25
16mm-2.00	**630175**	25
20mm-2.50	**630176**	10
24mm-3.00	**630177**	10

FINE THREAD

SIZE-PITCH	PART NUMBER	QTY
8mm-1.00	**630640**	100
10mm-1.00	**630641**	100
10mm-1.25	**630642**	100
12mm-1.25	**630643**	50
12mm-1.50	**630644**	50
14mm-1.50	**630645**	25
16mm-1.50	**630646**	25
20mm-1.50	**630647**	10

METRIC PREVAILING TORQUE LOCK NUTS

- **Class 10 - Comparable to Grade 8**
- **Withstands severe vibration and shock in critical areas.**
- **For use with Class 10.9 cap screws.**
- **Designed for high stress, high temperature applications.**
- **DIN 980V/10.**
- **Coarse thread.**

Part No. 630100
42 pieces • 6 items • 12032 plastic tray

630200	630201	630202	630203	630204	630205

Numbers in assortment

SIZE-PITCH	PART NUMBER	QTY
6mm-1.00	**630200**	25
8mm-1.25	**630201**	25
10mm-1.50	**630202**	12
12mm-1.75	**630203**	12
14mm-2.00	**630204**	6
16mm-2.00	**630205**	6
20mm-2.50	**630206**	6
24mm-3.00	**630207**	6

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METRIC NUTS

METRIC NYLON LOCK NUTS - DIN 985

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SIZE	PITCH	PART NUMBER	THREAD TYPE	QTY
3mm	.50	**553365**	coarse	200
4mm	.70	**553366**	coarse	200
5mm	.80	**553367**	coarse	200
6mm	1.00	**553281**	coarse	100
7mm	1.00	**553368**	coarse	100
8mm	1.00	**553364**	fine	100
8mm	1.25	**553282**	coarse	100
10mm	1.00	**553877**	fine	50
10mm	1.25	**553878**	fine	50

SIZE	PITCH	PART NUMBER	THREAD TYPE	QTY
10mm	1.50	**553283**	coarse	50
12mm	1.25	**553374**	fine	50
12mm	1.50	**553879**	fine	50
12mm	1.75	**553286**	coarse	50
14mm	2.00	**553369**	coarse	50
16mm	2.00	**553370**	coarse	50
18mm	2.50	**553372**	coarse	5
20mm	2.50	**553373**	coarse	5

Part No. 553391
100 pieces • 4 items • 12028 plastic tray

553281 **553283**
553282 **553286**

Numbers in assortment

8.8 METRIC HEX FLANGE NUTS

- **Class 8.**
- **DIN 6923.**
- **Used with Class 8.8 cap screws and flange bolts.**
- **Coarse thread.**

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against rust & corrosion

SIZE-PITCH	A/F	FLANGE DIAMETER	PART NUMBER	QTY
6mm-1.00	10mm	14.2mm	**532465**	25
8mm-1.25	13mm	17.9mm	**532466**	25
10mm-1.50	15mm	21.8mm	**532467**	25
12mm-1.75	18mm	26.0mm	**532468**	25

10.9 METRIC HEX FLANGE NUTS

- **Class 10.**
- **DIN 6923.**
- **Used with Class 10.9 cap screws and flange bolts.**
- **Coarse thread.**

SIZE-PITCH	A/F	FLANGE DIAMETER	PART NUMBER	QTY
6mm-1.00	10mm	14.2mm	**532470**	25
8mm-1.25	13mm	17.9mm	**532471**	25
10mm-1.50	15mm	21.8mm	**532472**	25
12mm-1.75	18mm	26.0mm	**532473**	25
16mm-2.00	24mm	34.5mm	**532474**	25

FLANGE NUTS

"GRADE G" HEX LOCK NUTS

- **Specifically for use with Class 10.9 Metric Flange Bolts.**
- **Coarse thread.**

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

SIZE	PITCH	PART NUMBER	QTY
10mm	1.50	**532475***	10
12mm	1.75	**532476**	10
16mm	2.00	**532477**	5

*** Lusterplated**

JIS HEX LOCK NUTS

- **Flange style with serrated washer face.**
- **Case hardened.**
- **Class 10.**

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against rust & corrosion

SIZE	PITCH	A/F	PART NUMBER	QTY
6mm	1.00	10mm	**630425**	50
8mm	1.25	12mm	**630426**	50
10mm	1.25	14mm	**630427**	50
10mm	1.50	14mm	**717273**	25

HEX WASHER NUTS

- **Flange style with smooth washer face.**
- **Case hardened.**
- **Universal applications.**
- **Class 9.**

SIZE	PITCH	A/F	PART NUMBER	QTY
5mm	.80	8mm	**716895†**	25
6mm	1.00	10mm	**717260†**	25
8mm	1.25	13mm	**717270†**	25
10mm	1.25	14mm	**717299****	25
10mm	1.50	15mm	**717287†**	25

† Black Oxide Finish
****Zinc Yellow**

METRIC HEX CAP NUTS (ACORN)

CLASS 6- DIN 1587

SIZE	PART NUMBER	QTY
4 x .70mm	**553394**	25
5 x .80mm	**553395**	25
6 x 1.00mm	**553396**	25
8 x 1.25mm	**553397**	25
10 x 1.50mm	**553398**	10
12 x 1.75mm	**553399**	10

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LUSTERPLATE™
against rust & corrosion

- **Dome cover for neat appearance.**
- **Prevents snagging.**
- **Coarse threads.**

Part No. 553103
70 pieces • 6 items • 12028 plastic tray

553394 **553396** **553398**
553395 **553397** **553399**

Numbers in assortment

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METRIC NUTS

FREE SPINNING WASHER HEX NUTS

Protected by
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- **Universal applications.**
- **Washer points provide positive locking action.**

DIAMETER	PITCH	PART NUMBER	WASHER	QTY
5mm	.80	**716894**	15mm	25
6mm	1.00	**716887**	16mm	25
6mm	1.00	**717475***	16mm	25
6mm	1.00	**717476**	18mm	25
6.3mm	1.00	**717265**	16mm	25
6.3mm	1.00	**717477**	19mm	25
8mm	1.25	**717478**	24mm	25
14mm	1.75	**702541**	27mm	6

*** Non-locking**

EXTRUDED "U" TYPE SPEED NUTS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **Clean, burr-free rolled internal machine screw thread.**
- **Used on grilles, fenders, radiators, & supports.**
- **Universal applications.**

SIZE	PART NUMBER	STYLE	QTY
6mm	**717261**	Locking, short throat	25
6mm	**717262**	Long throat	25
6.3mm	**717266**	Short throat	25
8mm	**717271**	Short throat	25
10mm	**717274**	Short throat	25

METRIC BRASS HEX NUTS

- **Manifold and universal applications.**
- **Corrosion resistant. Burr-free threads.**
- **High strength copper-zinc formation.**
- **Six different metric sizes - 6mm to 10mm.**

Part No. 553160
60 pieces • 6 items • 12032 plastic tray

553161	**553163**	**553165**
553162	**553164**	**553166**

Numbers in assortment

SIZE-PITCH	PART NUMBER	WRENCH SIZE	NUT HEIGHT	QTY
6mm-1.00	**553161**	10mm	5mm	50
8mm-1.25	**553164**	12mm	12mm	50
8mm-1.25	**553162**	13mm	6mm	50
8mm-1.25	**553165**	13mm	15mm	50
10mm-1.25	**553166**	14mm	10mm	50
10mm-1.50	**553163**	17mm	8mm	50

NOTE: Combined Domestic and Metric Assortment available. See Section L13.

COPPER PLATED METRIC LOCK NUTS

- **Used on VW manifold and exhaust systems.**
- **Copper plated steel.**

SIZE-PITCH	PART NUMBER	WRENCH SIZE	OEM NUMBER	QTY
8mm-1.25	**716888**	12mm	043-1014575	25
8mm-1.25	**716889**	13mm	043-1014575L	25
10mm-1.50	**716890**	14mm	021-101-4575	25

METRIC PUSH NUT BOLT RETAINER / FASTENER

Part No. 717037
190 pieces • 9 items • 12031 plastic tray

503157	**717490**	**717493**
503158	**717491**	**717494**
503159	**717492**	**717495**

Numbers in assortment

INSIDE DIAMETER	OUTSIDE DIAMETER	PART NUMBER	QTY
3.2mm	9.5mm	**717490†**	50
4mm	11mm	**717491**	50
5mm	11mm	**717492**	50
6mm	13mm	**717493**	50
6mm	13.5mm	**716898†**	50
6mm	17mm	**716897***	50
6.3mm	13mm	**717494**	50

INSIDE DIAMETER	OUTSIDE DIAMETER	PART NUMBER	QTY
8mm	16mm	**717495**	50
8mm	25mm	**503157**	50
10mm	20mm	**503173**	50
10mm	24mm	**503158**	50
12mm	21mm	**503174†**	50
14mm	25mm	**503159**	50

*** Dichromate. / † Zinc.**

CASTLE NUTS CLASS 8 - DIN 935

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SIZE	PART NUMBER	QTY
5-.80mm	**553485**	25
6-1.00mm	**553486**	25
8-1.25mm	**553487**	25
10-1.25mm	**553494***	25
10-1.50mm	**553488**	25
12-1.25mm	**553496***	10

SIZE	PART NUMBER	QTY
12-1.50mm	**553495***	10
12-1.75mm	**553489**	10
14-2.00mm	**553490**	10
16-2.00mm	**553491**	10
18-2.50mm	**553492**	10
20-2.50mm	**553493**	10

*** Fine thread**

FORGED WING NUTS

Part No. 553102
77 pieces • 6 items • 12047 plastic tray

532100	**553385**	**553387**
553299	**553386**	**553388**

Numbers in assortment

- **100% stronger than die cast nuts.**
- **Forged steel for extra strength and holding power.**
- **Zinc plated.**

SIZE	PART NUMBER	QTY
4-.70mm	**553385**	25
5-.80mm	**553299**	50
6-1.00mm	**532100**	50

SIZE	PART NUMBER	QTY
8-1.25mm	**553386**	25
10-1.50mm	**553387**	25
12-1.75mm	**553388**	25

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METRIC WASHERS

METRIC WASHERS

- Washers for use with both Class 8.8 and 10.9 hardware.

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	DIN 125 CLASS 8 FLAT		DIN 125/H CLASS 10 FLAT		DIN 127 CLASS 8 SPLIT LOCK		DIN 7980 CLASS 8 HI-COLLAR LOCK		DIN 137 CLASS 8 SPRING LOCK	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3mm	532008	200	---	-	532017	200	532000	100	532306	100
4mm	532009	200	---	-	532018	200	532001	200	532026	200
5mm	532010	200	---	-	532019	200	532002	200	532027	200
6mm	532011	200	630180	100	532020	200	532003	200	532028	200
7mm	532012	200	---	-	532021	200	---	-	---	-
8mm	532013	200	630181	100	532022	200	532004	200	532030	200
10mm	532014	200	630182	100	532023	200	532005	200	532031	200
12mm	532015	200	630183	50	532024	200	532006	200	532032	200
14mm	532016	200	630184	25	532025	200	532007	100	532033	200
16mm	553376	100	630185	25	553379	100	---	-	532307	50
18mm	553377	100	---	-	553380	100	---	-	532308	50
20mm	553378	100	630186	10	553381	100	---	-	532309	50
24mm	---	-	630187	10	553382	50	---	-	532310	50

CLASS 8 - DIN 125 (FLAT WASHERS)
Sizes: 3mm through 10mm
Part No. 553392
375 pieces • 6 items • 12028 plastic tray

532008	532010	532013
532009	532011	532014

Numbers in assortment

CLASS 8 - DIN 127 (SPLIT LOCK WASHERS)
Sizes: 3mm through 10mm
Part No. 553393
375 pieces • 6 items • 12028 plastic tray

532017	532019	532022
532018	532020	532023

Numbers in assortment

***NOTE: DIN 127 lock washers are compatible with both class 8.8 and 10.9 metric cap screws and nuts according to IFI (International Fastener Institute) standards.**

Class 10 metric flat washers, DIN 127/H, have a special hardening that creates a proper load bearing surface for hardened cap screws. Compatible with class 10.9 metric cap screws.

METRIC TOOTHED LOCK WASHERS

	INTERNAL DIN 6797J		EXTERNAL DIN 6797A	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY
2mm	533805	100	533825	100
3mm	533806	100	533826	100
4mm	533807	100	533827	100
5mm	533808	100	533828	100
6mm	533809	100	533829	100
7mm	533810	50	533830	50
8mm	533811	50	533831	50
10mm	533812	50	533832	50
12mm	533813	50	533833	50
14mm	533814	25	533834	25
16mm	533815	25	533835	25
18mm	533816	25	533836	25
20mm	533817	25	533837	25
22mm	533818	10	533838	10
24mm	533819	10	533839	10

- DIN 6797.
- High carbon spring steel.
- Vibration resistant.
- Teeth grip surfaces to prevent loosening.
- Internal tooth and external tooth.

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INTERNAL

EXTERNAL

INTERNAL TOOTHED
Part No. 533800
450 pieces • 6 items • 12047 plastic tray

553806	553809	553812
553807	553811	553813

Numbers in assortment

EXTERNAL TOOTHED
Part No. 533801
450 pieces • 6 items • 12047 plastic tray

553826	553829	553832
553827	553831	553833

Numbers in assortment

FENDER WASHERS

BOLT SIZE	PART NUMBER	QTY	I.D. MM	O.D. MM	THICKNESS MM
3mm	532340	100	3.2	9	.80
4mm	532341	100	4.3	12	1
5mm	532342	50	5.3	15	1.6
6mm	532343	50	6.4	18	1.6
8mm	532344	25	8.4	25	2
10mm	532345	25	10.5	30	2.5
12mm	532346	25	13	40	3
16mm	532347	10	17	50	3
20mm	532348	10	21	60	4

- DIN 9021.
- Oversized O.D. approx. 3 times bolt diameter.
- Class 8.8.
- For applications that require a large bearing surface.

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METRIC WASHERS and SCREWS

METRIC COPPER WASHERS/GASKETS AND SEALS

Used on fuel filters, fuel injection pumps, brake hose, drain plugs, etc. for both Imports and Domestic.

- **DIN 7603.**

PART NUMBER	I.D. x O.D.	THICKNESS	QTY
553801	6 x 10mm	1.0mm	50
553802	8 x 12mm	1.0mm	50
553803	8 x 14mm	1.0mm	50
553804	10 x 14mm	1.0mm	50
553805	10 x 16mm	1.0mm	50
553806	12 x 16mm	1.5mm	50
323260	12 x 16mm	2.0mm	50
553807	12 x 18mm	1.5mm	50
553808	14 x 18mm	1.5mm	50
553809	14 x 20mm	1.5mm	50
323261	14 x 20mm	2.0mm	50

PART NUMBER	I.D. x O.D.	THICKNESS	QTY
553810	16 x 20mm	1.5mm	50
553811	18 x 24mm	1.5mm	50
323263	18 x 24mm	2.0mm	50
553812	20 x 26mm	1.5mm	25
323264	20 x 26mm	2.0mm	25
553813	22 x 27mm	1.5mm	25
553814	24 x 30mm	2.0mm	25
553815	26 x 32mm	2.0mm	25
553816	28 x 34mm	2.0mm	25
553817	30 x 36mm	2.5mm	25
553818	32 x 38mm	2.5mm	25

Part No. 501462
425 pieces • 18 items • 12071 steel tray

553801	**553804**	**553807**	**553810**	**553813**	**553816**
553802	**553805**	**553808**	**553811**	**553814**	**553817**
553803	**553806**	**553809**	**553812**	**553815**	**553818**

Numbers in assortment

Part No. 553800
212 pieces • 18 items • 12040 plastic tray

553801	**553804**	**553807**	**553810**	**553813**	**553816**
553802	**553805**	**553808**	**553811**	**553814**	**553817**
553803	**553806**	**553809**	**553812**	**553815**	**553818**

Numbers in assortment

METRIC FLAT HEAD SLOTTED MACHINE SCREWS

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- **DIN 963.**
- **CLASS 4.8 (Comparable to Grade 2 strength.)**

	DIA. 3mm		DIA. 4mm		DIA. 5mm		DIA. 6mm		DIA. 8mm		DIA. 10mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	**532071**	100	**532075**	100	**533256**	100	---	-	---	-	---	-
8mm	**533250**	100	**533253**	100	---	-	---	-	---	-	---	-
10mm	**532072**	100	**532076**	100	**532080**	100	**532085**	100	---	-	---	-
12mm	**533251**	100	**533254**	100	**533257**	100	**533259**	100	---	-	---	-
14mm	**533252**	100	**533255**	100	**533258**	100	---	-	---	-	---	-
16mm	**532073**	100	**532077**	100	**532081**	100	**532086**	100	**533260**	50	**533265**	25
20mm	**532074**	100	**532078**	100	**532082**	100	**532087**	100	**533261**	50	**533266**	25
25mm	---	-	**532079**	100	**532083**	100	**532088**	100	**533262**	50	**533267**	25
30mm	---	-	---	-	**532084**	100	**532089**	100	**533263**	50	**533268**	25
35mm	---	-	---	-	---	-	---	-	**533264**	50	**533269**	25

A16

METRIC PAN HEAD SLOTTED MACHINE SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- **DIN 85.**
- **CLASS 4.8 (Comparable to Grade 2 strength.)**

	DIA. 3mm		DIA. 4mm		DIA. 5mm		DIA. 6mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	**532051**	100	**532055**	100	**532060**	100	---	-
8mm	**533240**	100	**533242**	100	---	-	---	-
10mm	**532052**	100	**532056**	100	**532061**	100	**532066**	100
12mm	**533241**	100	**533243**	100	**533244**	100	**533245**	100
16mm	**532053**	100	**532057**	100	**532062**	100	**532067**	100
20mm	**532054**	100	**532058**	100	**532063**	100	**532068**	100
25mm	---	-	**532059**	100	**532064**	100	**532069**	100
30mm	---	-	---	-	**532065**	100	**532070**	100
35mm	---	-	---	-	---	-	**533246**	100
40mm	---	-	---	-	---	-	**533247**	100

METRIC CHEESE HEAD SLOTTED MACHINE SCREWS

Protected by
LUSTERPLATE™
against rust & corrosion

- **DIN 84.**
- **Class 4.8 (Comparable to Grade 2 strength).**

Part No. 533005
225 pieces • 12 items • 12027 plastic tray

533277	**533287**	**533291**	**533295**
533279	**533288**	**533292**	**533296**
533285	**533289**	**533293**	**533298**

Numbers in assortment

	DIA. 3mm PITCH .50		DIA. 4mm PITCH .70		DIA. 5mm PITCH .80		DIA. 6mm PITCH 1.00	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
5mm	---	-	**533282**	100	---	-	---	-
6mm	**533275**	100	**533283**	100	---	-	---	-
8mm	**533276**	100	**533284**	100	---	-	---	-
10mm	**533277**	100	**533285**	100	**533289**	100	**533293**	100
12mm	**533278**	100	**533286**	100	**533290**	100	**533294**	100
16mm	**533279**	100	**533287**	100	**533291**	100	**533295**	100
20mm	**533280**	100	**533288**	100	**533292**	100	**533296**	100
25mm	**533281**	100	---	-	---	-	**533297**	100
30mm	---	-	---	-	---	-	**533298**	100

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METRIC SCREWS

METRIC PAN HEAD PHILLIPS MACHINE SCREWS

	DIA. 3mm		DIA. 4mm		DIA. 5mm		DIA. 6mm		DIA. 8mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
4mm	533300	100	---	-	---	-	---	-	---	-
6mm	533301	100	533309	100	533318	100	---	-	---	-
8mm	533302	100	533310	100	533319	100	---	-	---	-
10mm	533303	100	533311	100	533320	100	533326	50	---	-
12mm	533304	100	533340	100	533343	100	533344	50	533348	50
16mm	533305	100	533312	100	533321	100	533327	50	533335	50
20mm	533306	100	533313	100	533322	50	533328	50	533336	50
25mm	533307	100	533314	100	533323	50	533329	50	533337	50
30mm	533308	100	533315	100	533324	50	533330	50	533338	50
35mm	---	-	---	-	533325	50	533331	50	---	-
40mm	---	-	533316	50	---	-	533332	50	533339	50
45mm	---	-	533317	50	---	-	533333	50	---	-
50mm	---	-	533341	50	---	-	533334	50	---	-
55mm	---	-	533342	50	---	-	533345	50	---	-
60mm	---	-	---	-	---	-	533346	50	---	-
75mm	---	-	---	-	---	-	533347	50	---	-

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- **DIN 7985.**
- **CLASS 4.8 (Comparable to Grade 2 strength.)**

Part No. 533001
220 pieces • 12 items • 12027 plastic tray

533303	533312	533322	533329
533304	533313	533327	533336
533311	533320	533328	533338

Numbers in assortment

3 HEAD STYLE METRIC MACHINE SCREW ASSORTMENT

Assortment contains Phillips Flat, Pan and Oval Head screws, plus hex nuts.

Sizes: 3 x 6mm through 8 x 20mm
Includes hex nuts
Part No. 501405 • 1430 pieces • 32 items • 12062 steel tray

HEX NUTS	PHILLIPS FLAT	PHILLIPS FLAT	PHILLIPS PAN	PHILLIPS PAN	PHILLIPS PAN	PHILLIPS OVAL	PHILLIPS OVAL
3mm	3 x 6mm	5 x 10mm	3 x 6mm	5 x 10mm	8 x 20mm	3 x 6mm	6 x 25mm
4mm	3 x 10mm	5 x 20mm	3 x 10mm	5 x 20mm		3 x 10mm	
5mm	4 x 10mm	6 x 16mm	4 x 10mm	6 x 16mm		4 x 16mm	
6mm	4 x 16mm	6 x 20mm	4 x 16mm	6 x 20mm		5 x 20mm	
8mm	4 x 20mm	6 x 25mm	4 x 20mm	6 x 25mm		6 x 16mm	

Numbers in assortment

A16

METRIC FLAT HEAD PHILLIPS MACHINE SCREWS

	DIA. 3mm		DIA. 4mm		DIA. 5mm		DIA. 6mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	533350	100	---	-	---	-	---	-
8mm	533351	100	533355	100	533361	100	---	-
10mm	533352	100	533356	100	533362	100	533368	50
12mm	---	-	533357	100	533363	100	533369	50
16mm	533353	100	533358	100	533364	100	533370	50
20mm	---	-	533359	100	533365	50	533371	50
25mm	533354	100	533360	100	533366	50	533372	50
30mm	---	-	---	-	533367	50	533373	50
35mm	---	-	---	-	---	-	533374	50
40mm	---	-	---	-	---	-	533375	50

- **DIN 965.**
- **CLASS 4.8 (Comparable to Grade 2.)**

Protected by **LUSTERPLATE™** against rust & corrosion

METRIC OVAL HEAD PHILLIPS MACHINE SCREWS

	DIA. 3mm		DIA. 4mm		DIA. 5mm		DIA. 6mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	533380	100	---	-	---	-	---	-
8mm	533381	100	---	-	---	-	---	-
10mm	533382	100	---	-	---	-	533393	50
16mm	533383	100	533385	100	533389	50	533394	50
20mm	---	-	533386	100	533390	50	---	-
25mm	533384	100	533387	100	533391	50	533395	50
30mm	---	-	533388	100	533392	50	533396	50
35mm	---	-	---	-	---	-	533397	50
40mm	---	-	---	-	---	-	533398	50
50mm	---	-	---	-	---	-	533399	50

- **DIN 966.**
- **CLASS 4.8 (Comparable to Grade 2.)**

Protected by **LUSTERPLATE™** against rust & corrosion

Part No. 533003
225 pieces • 12 items • 12027 plastic tray

533382	533386	533391	533394
533383	533387	533392	533395
533385	533389	533393	533396

Numbers in assortment

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METRIC SCREWS

METRIC SOCKET SET SCREWS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

- **CLASS 14.9 - DIN 916.**
- **Special heat-treated alloy steel. Minimum 170,000 PSI tensile strength.**
- **Deep Socket to prevent wrench slippage. Deep cup point for vibration resistant bite.**

	DIA. 3mm 1.5mm HEX KEY		DIA. 4mm 2mm HEX KEY		DIA. 5mm 2.5mm HEX KEY		DIA. 6mm 3mm HEX KEY		DIA. 8mm 4mm HEX KEY		DIA. 10mm 5mm HEX KEY		DIA. 12mm 6mm HEX KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3mm	532401	100	---	-	---	-	---	-	---	-	---	-	---	-
4mm	532402	100	532409	100	---	-	---	-	---	-	---	-	---	-
5mm	---	-	532410	100	532418	50	---	-	---	-	---	-	---	-
6mm	532403	100	532411	100	532419	50	532428	50	---	-	---	-	---	-
8mm	532404	100	532412	100	532420	50	532429	50	532437	50	---	-	---	-
10mm	532405	100	532413	100	532421	50	532430	50	532438	50	532446	50	---	-
12mm	532406	100	532414	100	532422	50	532431	50	532439	50	532447	50	532455	30
14mm	532407	100	532415	100	532423	50	532432	50	532440	50	532448	50	532456	30
16mm	532408	100	532416	100	532424	50	532433	50	532441	50	532449	50	532457	30
20mm	---	-	532417	100	532425	50	532434	50	532442	50	532450	50	532458	30
25mm	---	-	---	-	532426	50	532435	50	532443	50	532451	50	532459	30
30mm	---	-	---	-	532427	50	532436	50	532444	50	532452	50	532460	30
35mm	---	-	---	-	---	-	---	-	532445	50	532453	50	---	-
40mm	---	-	---	-	---	-	---	-	---	-	532454	50	532461	30
50mm	---	-	---	-	---	-	---	-	---	-	---	-	532462	30

SMALL DIAMETER
Sizes: 3 x 3mm through 5 x 20mm
Part No. 501079
825 pieces • 22 items • 12017 steel tray

532401	532406	532412	532418	532424
532402	532408	532413	532419	532425
532403	532409	532414	532420	
532404	532410	532416	532421	
532405	532411	532417	532422	

Numbers in assortment

LARGE DIAMETER
Sizes: 6 x 8mm through 12 x 50mm
Part No. 501080
339 pieces • 23 items • 12017 steel tray

532429	532438	532447	532453	532460
532430	532439	532449	532455	532461
532431	532441	532450	532457	532462
532433	532442	532451	532458	
532434	532446	532452	532459	

Numbers in assortment

METRIC THREADED ROD

Protected by
LUSTERPLATE™
against rust & corrosion

Universal applications.

- **1 meter lengths (39-3/8 inches.)**
- **Coarse thread.**
- **Class 4.6 - DIN 975.**

Sizes: 4mm to 12mm
Part No. 532274
6 pieces • 6 items

532275	532277	532279
532276	532278	532280

Numbers in assortment

SIZE	PITCH	PART NUMBER
4mm	.70mm	532275
5mm	.80mm	532276
6mm	1.00mm	532277
8mm	1.25mm	532278
10mm	1.50mm	532279
12mm	1.75mm	532280
14mm	2.00mm	532281
16mm	2.00mm	532282
18mm	2.50mm	532283
20mm	2.50mm	532284
24mm	3.00mm	532285
30mm	3.50mm	532286

METRIC HEX ROD COUPLINGS

Protected by
LUSTERPLATE™
against rust & corrosion

Used to make rods over 1 meter long.

- **Class 5.6 - coarse thread.**
- **Connect short pieces to eliminate waste.**

SIZE	PITCH	PART NUMBER	QTY
5mm	.80mm	532288	12
6mm	1.00mm	532289	12
8mm	1.25mm	532290	12
10mm	1.50mm	532291	12
12mm	1.75mm	532292	12

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METRIC THREAD FASTENERS, ROLLER CHAIN and COTTER PINS

DOUBLE END METRIC STUDS

DIAMETER & PITCH	LENGTH	PART NUMBER	A/B	QTY
6mm x1.0	25mm	**532311**	18/7.5mm	25
6mm x1.0	30mm	**532312**	18/7.5mm	25
6mm x1.0	40mm	**532313**	18/7.5mm	25
6mm x1.0	50mm	**532321**	18/7.5mm	25
8mm x1.25	25mm	**532314**	22/10mm	25
8mm x1.25	30mm	**532315**	22/10mm	25
8mm x1.25	40mm	**532316**	22/10mm	25
8mm x1.25	50mm	**532322**	22/10mm	25
10mm x1.25	28mm	**532323**	20/14mm	24 *
10mm x1.25	32mm	**532324**	25/16mm	24 *
10mm x1.5	30mm	**532317**	26/12mm	25
10mm x1.5	40mm	**532318**	26/12mm	25
10mm x1.5	50mm	**532319**	26/12mm	25
10mm x1.5	80mm	**532320**	26/12mm	25

*** PLATED**

- **Class 5.6 - DIN 939.**
- **See catalog section L13 for Master Stud & Manifold Nut assortent.**

Protected by
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against rust & corrosion

Part No. 532300
62 pieces • 12 items • 12039 plastic tray

532311	532314	532317	532320
532312	532315	532318	532321
532313	532316	532319	532322

Numbers in assortment

FULL THREAD STUDS

LENGTH	DIA. 6mm PITCH 1.00 PART NUMBER	QTY	DIA. 8mm PITCH 1.25 PART NUMBER	QTY
23mm	**532335**	25	---	-
27mm	---	-	**532336**	25
31mm	---	-	**532337**	25
35mm	---	-	**532338**	25
40mm	---	-	**532339**	25

- **CLASS 4.8 (Comparable to Grade 2 strength.)**
- **Plain finish.**

Part No. 532303
48 pieces • 5 items • 12028 plastic tray

532335	532337	532339
532336	532338	

Numbers in assortment

BRITISH STANDARD METRIC ROLLER CHAIN

For chain driven power transmissions, snowmobiles, motorcycles, bicycles, go-carts, aqua-cats, home snowplows, printing presses, mining, industrial, farm and agricultural equipment.

- **Conforms to ISO 606.B, BS.228 (British Standards) and DIN 8187 (German Standards).**
- **Heat treated steel pre-lubricated, longer lasting.**
- **Meets ANSI specifications. Interchangeable with chains already in use.**
- **Packed 10 feet per box. Includes connecting link.**

PART NUMBER	INDUSTRY CHAM NUMBER	PITCH P	ROLLER WIDTH W	ROLLER DIA. D	OVERALL WIDTH	PIN DIA. d	LINK PLATE HEIGHT H	LINK PLATE THKN. T	AVERAGE TENSILE STRENGTH LBS.	REPAIR LINKS OFFSET PART NUMBER	REPAIR LINKS CONNECTING PART NUMBER	QTY
407250	06B	3/8	.225	.250	.531	.130	.335	.050	2,300	**407260**	**407270**	5
407251	08B	1/2	.305	.335	.669	.175	.472	.060	4,000	**407261**	**407271**	5
407252	10B	5/8	.380	.400	.772	.200	.579	.065	5,600	**407262**	**407272**	5
407253	12B	3/4	.460	.475	.894	.225	.637	.070	7,200	**407263**	**407273**	5
407254	16B	1	.670	.625	1.421	.326	.827	.156	15,000	**407264**	**407274**	2
407255	20B	1-1/4	.770	.750	1.701	.401	1.039	.177	23,800	**407265**	**407275**	2

Dimension in inches.

METRIC COTTER PINS

LENGTH	DIA. 1.6mm PART NUMBER	QTY	DIA. 2mm PART NUMBER	QTY	DIA. 2.5mm PART NUMBER	QTY	DIA. 3.2mm PART NUMBER	QTY	DIA. 4mm PART NUMBER	QTY	DIA. 5mm PART NUMBER	QTY	DIA. 6.3mm PART NUMBER	QTY
16mm	**531974**	100	---	-	---	-	**531982**	100	---	-	---	-	---	-
20mm	**531975**	100	**531978**	100	---	-	**531983**	100	---	-	---	-	---	-
25mm	**531976**	100	**532040**	100	**531979**	100	**532042**	100	**532044**	100	---	-	---	-
30mm	---	-	**532041**	100	---	-	**531984**	100	**531986**	100	**532046**	50	**531994**	25
40mm	**531977**	100	---	-	**531980**	100	**532043**	100	**532045**	100	---	-	**531995**	25
45mm	---	-	---	-	---	-	---	-	---	-	**531989**	50	**531996**	25
50mm	---	-	---	-	**531981**	100	**531985**	100	**531987**	50	**532047**	50	**531997**	25
55mm	---	-	---	-	---	-	---	-	---	-	**531990**	50	**531998**	25
63mm	---	-	---	-	---	-	---	-	**531988**	50	**531991**	50	**531999**	25

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- **DIN 94.**

Part No. 501388
616 pieces • 32 items • 12062 steel tray

531974	531979	531984	531989	531996	532041	532046
531975	531980	531985	531990	531997	532042	532047
531976	531981	531986	531991	531998	532043	
531977	531982	531987	531994	531999	532044	
531978	531983	531988	531995	532040	532045	

Numbers in assortment

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METRIC RETAINING RINGS

METRIC INTERNAL RETAINING RINGS

CODE	PART NUMBER	630239	630240	630241	630242	630243	630244	630245	630246	630247	630248	630249	630250
B	NOM. SIZE DIA.	8mm	10mm	12mm	14mm	16mm	17mm	18mm	20mm	21mm	22mm	24mm	30mm
A	FREE DIA. O.D.	8.7	10.8	13	15.1	17.3	18.3	19.5	21.5	22.5	23.5	29.9	32.1
T	THICKNESS	0.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3

METRIC EXTERNAL RETAINING RINGS

CODE	PART NUMBER	630220	630221	630222	630223	630224	630225	630226	630227	630228	630229
B	NOM. SIZE DIA.	4mm	5mm	6mm	7mm	8mm	10mm	11mm	12mm	14mm	15mm
A	FREE DIA. I.D.	3.7	4.7	5.6	6.5	7.4	9.3	10.2	11	12.9	13.8
T	THICKNESS	0.5	0.7	0.8	0.9	0.9	1.1	1.1	1.1	1.1	1.1

CODE	PART NUMBER	630230	630231	630232	630233	630234	630235	630236	630237	630238
B	NOM. SIZE DIA.	16mm	18mm	19mm	20mm	21mm	22mm	24mm	25mm	30mm
A	FREE DIA. I.D.	14.7	16.5	17.5	18.5	19.5	20.5	22.2	23.2	27.9
T	THICKNESS	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6

METRIC "E" RINGS

CODE	PART NUMBER	630210	630211	630212	630213	630214	630215	630216	630217	630218	630219
B	NOM. SIZE DIA. I.D.	3.2mm	4mm	5mm	6mm	7mm	8mm	9mm	10mm	12mm	15mm
A	NOM. SIZE DIA. O.D.	7.0	9.0	11.0	12.0	14.0	16.0	18.5	20.0	23.0	29.0
T	THICKNESS	0.6	0.7	0.7	0.7	0.9	1.0	1.1	1.2	1.3	1.5

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METRIC RETAINING RINGS and SPRING ROLL PINS

METRIC "E" RINGS ASSORTMENT

Sizes: 3.2mm through 15mm
Part No. 630101
280 pieces • 10 items • 12030 plastic tray

3.2mm	5mm	7mm	9mm	12mm
4mm	6mm	8mm	10mm	15mm

Numbers in assortment

"E" RING

METRIC INTERNAL RETAINING RINGS ASSORTMENT

Sizes: 8mm through 30mm
Part No. 630103
234 pieces • 12 items • 12038 plastic tray

8mm	12mm	16mm	18mm	21mm	24mm
10mm	14mm	17mm	20mm	22mm	30mm

Numbers in assortment

INTERNAL

METRIC "E", INTERNAL & EXTERNAL RETAINING RINGS ASSORTMENT

Sizes: 3.2mm through 24mm
Part No. 501389
869 pieces • 31 items • 12062 steel tray

"E" RINGS	"E" RINGS	"E" RINGS	EXT. RINGS	EXT. RINGS	EXT. RINGS	INT. RINGS	INT. RINGS	INT. RINGS
3.2mm	7mm	12mm	4mm	10mm	18mm	8mm	16mm	24mm
4mm	8mm	15mm	5mm	12mm	20mm	10mm	18mm	
5mm	9mm		6mm	14mm	22mm	12mm	20mm	
6mm	10mm		8mm	16mm	24mm	14mm	22mm	

Numbers in assortment

"E" RING

INTERNAL

EXTERNAL

METRIC SPRING ROLL PINS

Replaces grooved pins, cotter pins, set screws, clevis pins, dowels, rivets, tapered pins, gear hubs, headed pins, bolts and nuts.

- **DIN 1481.**
- **High carbon spring steel. Heat treated.**
- **Chamfered ends for fast installation.**
- **Self locking spring action provides continuous holding power.**

	DIA. 1.5mm		DIA. 2mm		DIA. 2.5mm		DIA. 3mm		DIA. 4mm		DIA. 5mm		DIA. 6mm		DIA. 8mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
8mm	532806	100	---	-	---	-	---	-	---	-	---	-	---	-	---	-
12mm	532807	100	532809	100	532813	100	532817	100	532821	100	---	-	---	-	---	-
16mm	532808	100	532810	100	532814	100	---	-	532822	100	532825	100	---	-	---	-
18mm	---	-	---	-	---	-	532818	100	---	-	---	-	---	-	---	-
20mm	---	-	---	-	---	-	---	-	---	-	532826	100	532829	50	532833	50
24mm	---	-	532811	100	532815	100	---	-	---	-	---	-	---	-	---	-
26mm	---	-	---	-	---	-	532819	100	---	-	---	-	---	-	---	-
28mm	---	-	---	-	---	-	---	-	532823	100	---	-	---	-	---	-
30mm	---	-	532812	100	532816	100	---	-	---	-	532827	100	532830	50	532834	50
32mm	---	-	---	-	---	-	532820	100	---	-	---	-	---	-	---	-
40mm	---	-	---	-	---	-	---	-	532824	100	532828	100	532831	50	532835	50
50mm	---	-	---	-	---	-	---	-	---	-	---	-	532832	50	532836	50

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METRIC PINS and KEYSTOCK

METRIC DOWEL PINS

Use to fasten and align engine parts and gears.

- **DIN 6325/M6.**
- **Hardened steel to Rockwell 58-62C.**
- **Precision ground.**

Part No. 501666
338 pieces • 27 items
12062 steel tray

533450	533465	533474	533484
533452	533466	533475	533487
533453	533467	533476	533489
533458	533468	533480	533490
533459	533469	533481	533491
533460	533472	533482	533492
533461	533473	533483	

Numbers in assortment

	DIA. 4mm Single Shear Strength 2,965 lbs.		DIA. 5mm Single Shear Strength 4,635 lbs.		DIA. 6mm Single Shear Strength 6,650 lbs.		DIA. 8mm Single Shear Strength 11,850 lbs.		DIA. 10mm Single Shear Strength 18,550 lbs.		DIA. 12mm Single Shear Strength 26,700 lbs.	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
10mm	**533450**	25	---	-	---	-	---	-	---	-	---	-
12mm	**533451**	25	**533457**	25	**533464**	25	---	-	---	-	---	-
16mm	**533452**	25	**533458**	25	**533465**	25	**533471**	25	**533479**	10	---	-
20mm	**533453**	25	**533459**	25	**533466**	25	**533472**	25	**533480**	10	---	-
24mm	**533454**	25	**533460**	25	**533467**	25	**533473**	25	**533481**	10	**533487**	5
32mm	---	-	---	-	---	-	---	-	---	-	**533488**	5
36mm	**533455**	25	**533461**	25	**533468**	25	**533474**	10	**533482**	10	**533489**	5
40mm	**533456**	25	**533462**	25	**533469**	25	**533475**	10	**533483**	10	**533490**	5
50mm	---	-	**533463**	25	**533470**	25	**533476**	10	**533484**	10	**533491**	5
60mm	---	-	---	-	---	-	**533477**	10	**533485**	10	**533492**	5
80mm	---	-	---	-	---	-	**533478**	10	**533486**	10	**533493**	5

METRIC KEYSTOCK

Use to cut and fit your own machinery keys.

- **Machine cut corners are sharp and square.**
- **Finished oversize for snug fit.**
- **Parallel faces insure perfect fit.**
- **OUR keystock is engineered to eliminate backlash. Assures more efficient operation and longer life.**
- **Oversize tolerances - .000 to +.0762mm.**
- **Size marked on every bar.**
- **Handy 12" length.**
- **High quality cold drawn steel.**

Part No. 501659
18 pieces • 6 items • 12116 steel tray

554040	554042	554045
554041	554044	554046

Numbers in assortment

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SIZE	PART NUMBER	QTY
4 x 4mm	**554040**	2
5 x 5mm	**554041**	2
6 x 6mm	**554042**	2
7 x 7mm	**554043**	2
8 x 8mm	**554044**	2
10 x 10mm	**554045**	2
12 x 12mm	**554046**	2
14 x 14mm	**554047**	2

(Standard sizes available see section A18)

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METRIC STAINLESS STEEL

40 BIN METRIC STAINLESS STEEL ASSORTMENT

- A2 stainless steel (similar to 18-8 stainless).
- Popular sizes of metric cap screws, nuts, flat washers, and lock washers from 5mm through 12mm diameter.

A2 STAINLESS STEEL COARSE (USS)

Part No. **501061**
879 pieces • 40 items
12021 steel cabinet

Assortment Photo for illustration purposes only.
Actual Contents may vary.

5mm x 20mm	6mm x 25mm	8mm x 25mm	10mm x 25mm	12mm x 25mm	5mm hex nut	5mm flat washer	5mm lock washer
5mm x 25	6mm x 30mm	8mm x 30mm	10mm x 30mm	12mm x 35mm	6mm hex nut	6mm flat washer	6mm lock washer
5mm x 30mm	6mm x 40mm	8mm x 35mm	10mm x 35mm	12mm x 40mm	8mm hex nut	8mm flat washer	8mm lock washer
6mm x 10mm	8mm x 16mm	8mm x 40mm	10mm x 40mm	12mm x 50mm	10mm hex nut	10mm flat washer	10mm lock washer
6mm x 20mm	8mm x 20mm	10mm x 20mm	10mm x 50mm	12mm x 60mm	12mm hex nut	12mm flat washer	12mm lock washer

16 BIN METRIC STAINLESS STEEL HEX CAP SCREW ASSORTMENT

- A2 stainless steel (similar to 18-8 stainless).
- Popular sizes of metric cap screws from 5mm through 12mm diameter.

A2 STAINLESS STEEL COARSE (USS)

Part No. **501048**
148 pieces • 15 items
12058 steel cabinet

Assortment Photo for illustration purposes only.
Actual Contents may vary.

5mm x 25mm	5mm x 30mm	5mm x 40mm	6mm x 25mm	6mm x 30mm	6mm x 40mm	8mm x 30mm	8mm x 40mm
8mm x 50mm	10mm x 30mm	10mm x 40mm	10mm x 50mm	12mm x 40mm	12mm x 50mm	12mm x 70mm	

METRIC STAINLESS STEEL SHOP ASSORTMENT

Part No. **501406**
605 pieces • 32 items • 12062 steel tray

HEX NUTS	LOCK WASHERS	FLAT WASHERS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
5mm	5mm	5mm	5 x 12mm	6 x 20mm	10 x 20mm	12 x 35mm
6mm	6mm	6mm	5 x 16mm	8 x 20mm	10 x 25mm	12 x 40mm
8mm	8mm	8mm	5 x 20mm	8 x 25mm	10 x 30mm	
10mm	10mm	10mm	6 x 12mm	8 x 30mm	10 x 40mm	
12mm	12mm	12mm	6 x 16mm	8 x 40mm	12 x 25mm	

Numbers in assortment

- Contains cap screws, hex nuts, flat washers and lock washers.

METRIC STAINLESS STEEL CAP SCREWS ASSORTMENT

Part No. **501407**
255 pieces • 27 items • 12062 steel tray

CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS	CAP SCREWS
5 x 12mm	6 x 20mm	8 x 30mm	10 x 25mm	12 x 20mm	12 x 50mm
5 x 16mm	6 x 25mm	8 x 35mm	10 x 30mm	12 x 25mm	12 x 60mm
5 x 20mm	8 x 16mm	8 x 40mm	10 x 35mm	12 x 30mm	
6 x 12mm	8 x 20mm	10 x 16mm	10 x 40mm	12 x 35mm	
6 x 16mm	8 x 25mm	10 x 20mm	10 x 50mm	12 x 40mm	

Numbers in assortment

METRIC STAINLESS STEEL NUTS & WASHERS ASSORTMENT

Part No. **501408**
570 pieces • 20 items • 12017 steel tray

HEX NUTS	LOCK NUTS	LOCK WASHERS	FLAT WASHERS
5mm	5mm	5mm	5mm
6mm	6mm	6mm	6mm
8mm	8mm	8mm	8mm
10mm	10mm	10mm	10mm
12mm	12mm	12mm	12mm

Numbers in assortment

- Contains standard & nylon nuts, flat & lock washers.
- Sizes from 5mm through 12mm diameter.

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METRIC STAINLESS STEEL

METRIC STAINLESS STEEL CAP SCREWS

- Grade A2. Similar to 18-8 stainless steel.
- DIN 933.
- Fully threaded.

	DIA. 4mm PITCH .70		DIA. 5mm PITCH .80		DIA. 6mm PITCH 1.00		DIA. 8mm PITCH 1.25		DIA. 10mm PITCH 1.50		DIA. 12mm PITCH 1.75		DIA. 16mm PITCH 2.0	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
10mm	533161	25	---	-	533111	25	---	-	---	-	---	-	---	-
12mm	533162	25	533102	25	533112	25	533120	10	---	-	---	-	---	-
16mm	533163	25	533103	25	533113	25	533121	10	533131	10	---	-	---	-
20mm	533164	25	533104	25	533114	25	533122	10	533132	10	533141	10	---	-
25mm	533165	25	533105	25	533115	25	533123	10	533133	10	533142	10	---	-
30mm	---	-	533106	25	533116	25	533124	10	533134	10	533143	10	---	-
35mm	---	-	533107	10	---	-	533125	10	533135	10	533144	10	---	-
40mm	---	-	533108	10	533117	10	533126	10	533136	10	533145	10	---	-
45mm	---	-	---	-	---	-	533127	5	---	-	---	-	533151	5
50mm	---	-	---	-	---	-	533128	5	533138	10	533147	10	533152	5
60mm	---	-	---	-	---	-	533129	5	533139	5	533149	10	533153	5
70mm	---	-	---	-	---	-	---	-	533140	5	533150	5	533154	5

Size: 6 x 16mm through 12 x 40mm

Part No. 533000

225 pieces • 24 items

12045 plastic tray

533113	533122	533132	533142	533202	533205	533224	533233
533114	533124	533134	533144	533203	533222	533225	533234
533115	533126	533136	533145	533204	533223	533232	533235

Numbers in assortment

	HEX NUT DIN 934		FLAT WASHER DIN 125/A		LOCK WASHER DIN 127/B		LOCK NUT DIN 985	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3mm	533208	100	533220	100	533230	100	---	-
4mm	533206	25	533226	50	533236	50	533216	25
5mm	533201	25	533221	50	533231	50	533211	25
6mm	533202	25	533222	50	533232	50	533212	25
8mm	533203	25	533223	50	533233	50	533213	10
10mm	533204	10	533224	25	533234	25	533214	10
12mm	533205	10	533225	25	533235	25	533215	10
16mm	533207	10	533227	10	533237	10	533217	10

METRIC STAINLESS STEEL HEX JAM NUTS

- DIN 439.
- Grade A2. Similar to 18-8 stainless steel.

SIZE-PITCH	PART NUMBER	WIDTH MAX.	HEIGHT MAX.	QTY
3mm-.50	554420	5.5mm	1.8mm	100
4mm-.70	554421	7mm	2.2mm	100
5mm-.80	554422	8mm	2.7mm	100
6mm-1.00	554423	10mm	3.2mm	50
8mm-1.25	554424	13mm	4mm	50
10mm-1.50	554425	16mm	5mm	25
12mm-1.75	554426	18mm	6mm	10
16mm-2.00	554427	24mm	8mm	10

METRIC STAINLESS STEEL HEX CAP NUTS (ACORN)

- DIN 1587.
- Coarse threads.
- Grade A2. Similar to 18-8 stainless steel.
- Dome cover for neat appearance.

Part No. 553105

70 pieces • 6 items • 12028 plastic tray

554440	554442	554444
554441	554443	554445

Numbers in assortment

SIZE-PITCH	PART NUMBER	WIDTH MAX.	HEIGHT MAX.	QTY
4mm-.70	554440	7mm	8mm	25
5mm-.80	554441	8mm	10mm	25
6mm-1.00	554442	10mm	12mm	25
8mm-1.25	554443	13mm	15mm	10
10mm-1.50	554444	17mm	18mm	10
12mm-1.75	554445	19mm	22mm	10

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METRIC STAINLESS STEEL

METRIC STAINLESS STEEL SOCKET CAP SCREWS

- DIN 912.
- Grade A2. Similar to 18-8 stainless steel.
- Full finished deep socket for greater wrenching leverage.

	DIA. 3mm 2.5mm HEX KEY		DIA. 4mm 3mm HEX KEY		DIA. 5mm 4mm HEX KEY		DIA. 6mm 5mm HEX KEY		DIA. 8mm 6mm HEX KEY		DIA. 10mm 8mm HEX KEY		DIA. 12mm 10mm HEX KEY		DIA. 16mm 14mm HEX KEY	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	553952	25	---	-	---	-	---	-	---	-	---	-	---	-	---	-
8mm	553953	25	553900	25	553959	25	---	-	---	-	---	-	---	-	---	-
10mm	553954	25	553901	25	553905	25	553913	25	---	-	---	-	---	-	---	-
12mm	553955	25	553902	25	553906	25	553914	25	---	-	---	-	---	-	---	-
16mm	553956	25	553903	25	553907	25	553915	25	553921	10	---	-	---	-	---	-
20mm	---	-	553904	25	553908	25	553916	25	553922	10	553927	10	553967	10	---	-
25mm	---	-	553957	25	553909	25	553917	25	553923	10	553928	10	553933	10	---	-
30mm	---	-	553958	25	553910	25	553918	25	553924	10	553929	10	553934	10	553943	5
35mm	---	-	---	-	553960	25	553919	10	553925	10	553930	10	553935	10	553944	5
40mm	---	-	---	-	553912	25	553920	10	553926	10	553931	10	553936	10	553945	5
50mm	---	-	---	-	---	-	553961	10	553962	10	553932	10	553937	10	553946	5
60mm	---	-	---	-	---	-	---	-	553963	10	553964	10	553938	5	553947	5
70mm	---	-	---	-	---	-	---	-	---	-	553965	10	553939	5	553948	1
80mm	---	-	---	-	---	-	---	-	---	-	553966	10	553940	5	553949	1
90mm	---	-	---	-	---	-	---	-	---	-	---	-	553941	5	553950	1
100mm	---	-	---	-	---	-	---	-	---	-	---	-	553942	5	553951	1

Size: 4 x 8mm through 12 x 40mm
Part No. 501507
288 pieces • 23 items
12017 steel tray

553900	553903	553908	553916	553921	553924	553929	553935
553901	553906	553909	553917	553922	553927	553930	553936
553902	553907	553915	553918	553923	553928	553934	

Numbers in assortment

METRIC STAINLESS STEEL FLAT HEAD SOCKET CAP SCREWS

- DIN 7991.
- Countersunk head for flush applications.
- Coarse threads.
- Grade A2 similar to 18-8 stainless steel.
- Full finished deep socket for greater wrenching leverage.

	DIA. 3mm PITCH .50 KEY SIZE: 2mm		DIA. 4mm PITCH .70 KEY SIZE: 2.5mm		DIA. 5mm PITCH .80 KEY SIZE: 3mm		DIA. 6mm PITCH 1.00 KEY SIZE: 4mm		DIA. 8mm PITCH 1.25 KEY SIZE: 5mm		DIA. 10mm PITCH 1.50 KEY SIZE: 6mm		DIA. 12mm PITCH 1.75 KEY SIZE: 8mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	554100	25	---	-	---	-	---	-	---	-	---	-	---	-
8mm	554101	25	554107	25	554114	-	---	-	---	-	---	-	---	-
10mm	554102	25	554108	25	554115	25	554122	-	---	-	---	-	---	-
12mm	554103	25	554109	25	554116	25	554123	25	554132	-	---	-	---	-
16mm	554104	25	554110	25	554117	25	554124	25	554133	10	---	-	---	-
20mm	554105	25	554111	25	554118	25	554125	25	554134	10	554142	10	---	-
25mm	554106	25	554112	25	554119	25	554126	25	554135	10	554143	10	554151	10
30mm	---	-	554113	25	554120	25	554127	25	554136	10	554144	10	554152	10
35mm	---	-	---	-	554121	25	554128	10	554137	10	554145	10	---	-
40mm	---	-	---	-	---	-	554129	10	554138	10	554146	10	554153	10
45mm	---	-	---	-	---	-	554130	10	554139	10	---	-	---	-
50mm	---	-	---	-	---	-	554131	10	554140	10	554147	10	554154	10
60mm	---	-	---	-	---	-	---	-	554141	10	554148	10	554155	5
70mm	---	-	---	-	---	-	---	-	---	-	554149	10	554156	5
80mm	---	-	---	-	---	-	---	-	---	-	554150	10	554157	5

Size: 3 x 8mm through 12 x 40mm
Part No. 501661
282 pieces • 23 items
12017 steel tray

554101	554108	554116	554124	554133	554136	554144	554152
554102	554109	554117	554125	554134	554142	554145	554153
554103	554110	554118	554126	554135	554143	554151	

Numbers in assortment

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METRIC STAINLESS STEEL

METRIC STAINLESS STEEL SOCKET SET SCREWS

- DIN 916.
- Made from A2 stainless steel (similar to 18-8) .
- Deep cup point for vibration resistant bite.
- Deep socket to prevent wrench slippage.

	DIA. 3mm PITCH .50 KEY SIZE: 1.5mm		DIA. 4mm PITCH .70 KEY SIZE: 2mm		DIA. 5mm PITCH .80 KEY SIZE: 2.5mm		DIA. 6mm PITCH 1.00 KEY SIZE: 3mm		DIA. 8mm PITCH 1.25 KEY SIZE: 4mm		DIA. 10mm PITCH 1.50 KEY SIZE: 5mm		DIA. 12mm PITCH 1.75 KEY SIZE: 6mm	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3mm	554201	25	---	-	---	-	---	-	---	-	---	-	---	-
4mm	554202	25	554208	25	---	-	---	-	---	-	---	-	---	-
5mm	554203	25	554209	25	554214	25	---	-	---	-	---	-	---	-
6mm	554204	25	554210	25	554215	25	554219	25	---	-	---	-	---	-
8mm	554205	25	554211	25	554216	25	554220	25	554226	10	---	-	---	-
10mm	554206	25	554212	25	554217	25	554221	25	554227	10	554233	10	---	-
12mm	554207	25	554213	25	554218	25	554222	25	554228	10	554234	10	554241	10
16mm	---	-	---	-	---	-	554223	25	554229	10	554235	10	554242	10
20mm	---	-	---	-	---	-	554224	25	554230	10	554236	10	554243	10
25mm	---	-	---	-	---	-	554225	25	554231	10	554237	10	554244	10
30mm	---	-	---	-	---	-	---	-	554232	10	554238	10	554245	10
35mm	---	-	---	-	---	-	---	-	---	-	554239	10	554246	10
40mm	---	-	---	-	---	-	---	-	---	-	554240	10	554247	10

Size: 3 x 3mm through 5 x 12mm
Part No. 501664
420 pieces • 18 items
12071 steel tray

554201	554204	554207	554210	554213	553216
554202	553205	554208	554211	554214	554217
554203	553206	554209	554212	554215	554218

Numbers in assortment

Size: 6 x 8mm through 12 x 40mm
Part No. 501665
237 pieces • 22 items
12017 steel tray

554220	554223	554228	554233	554236	553240	554243	554246
554221	553224	554229	554234	554237	554241	554244	
554222	553227	554230	554235	554238	554242	554245	

Numbers in assortment

METRIC STAINLESS STEEL FLAT HEAD SLOTTED MACHINE SCREWS

- DIN 963A.
- A2 stainless steel (similar to 18-8 stainless).

Part No. 501671
994 pieces • 19 items • 12071 steel tray

554326	554330	554334	554338	554342
554327	554331	554335	554339	554343
554328	554332	554336	554340	554344
554329	554333	554337	554341	

Numbers in assortment

	DIA. 3mm PITCH .50		DIA. 4mm PITCH .70		DIA. 5mm PITCH .80		DIA. 6mm PITCH 1.00	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	554326	50	554331	50	---	-	---	-
8mm	554327	50	554332	50	---	-	---	-
10mm	554328	50	554333	50	554337	50	554341	50
12mm	554329	50	554334	50	554338	50	554342	50
16mm	554330	50	554335	50	554339	50	554343	50
20mm	---	-	554336	50	554340	50	554344	50

METRIC STAINLESS STEEL CHEESE HEAD SLOTTED MACHINE SCREWS

- DIN 84A.
- A2 stainless steel (similar to 18-8 stainless).

Part No. 554300
225 pieces • 12 items • 12027 plastic tray

554301	554305	554309
554302	554306	554310
554303	554307	554311
554304	554308	554312

Numbers in assortment

	DIA. 4mm PITCH .70		DIA. 5mm PITCH .80		DIA. 6mm PITCH 1.00	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
5mm	554301	50	---	-	---	-
8mm	554302	50	---	-	---	-
10mm	554303	50	554305	50	554309	50
12mm	554304	50	554306	50	554310	50
16mm	---	-	554307	50	554311	50
20mm	---	-	554308	50	554312	50
25mm	---	-	---	-	554313	50

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METRIC STAINLESS STEEL

METRIC STAINLESS STEEL PAN HEAD SLOTTED MACHINE SCREWS

	DIA. 3mm PITCH .50		DIA. 4mm PITCH .70		DIA. 5mm PITCH .80		DIA. 6mm PITCH 1.00	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	**554351**	50	**554356**	50	**554361**	50	---	-
8mm	**554352**	50	---	-	---	-	---	-
10mm	**554353**	50	**554357**	50	**554362**	50	**554366**	50
12mm	**554354**	50	**554358**	50	**554363**	50	**554367**	50
16mm	**554355**	50	**554359**	50	**554364**	50	**554368**	50
20mm	---	-	**554360**	50	**554365**	50	**554369**	50
25mm	---	-	---	-	---	-	**554370**	50
30mm	---	-	---	-	---	-	**554371**	50

- **DIN 85A.**
- **A2 stainless steel (similar to 18-8 stainless).**

Part No. 501672
995 pieces • 21 items • 12017 steel tray

554351	554355	554359	554363	554367	554371
554352	554356	554360	554364	554368	
554353	554357	554361	554365	554369	
554354	554358	554362	554366	554370	

Numbers in assortment

METRIC STAINLESS STEEL PAN HEAD PHILLIPS MACHINE SCREWS

	DIA. 3mm PITCH .50		DIA. 4mm PITCH .70		DIA. 5mm PITCH .80		DIA. 6mm PITCH 1.00	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
6mm	**554375**	50	**554380**	50	---	-	---	-
8mm	**554376**	50	**554381**	50	---	-	---	-
10mm	**554377**	50	**554382**	50	**554387**	50	**554392**	50
12mm	**554378**	50	**554383**	50	**554388**	50	**554393**	50
16mm	**554379**	50	**554384**	50	**554389**	50	**554394**	50
20mm	---	-	**554385**	50	**554390**	50	**554395**	50
25mm	---	-	**554386**	50	**554391**	50	**554396**	50
30mm	---	-	---	-	---	-	**554397**	50

- **DIN 7985.**
- **A2 stainless steel (similar to 18-8 stainless).**

METRIC STAINLESS STEEL THREADED ROD

SIZE	PITCH	PART NUMBER
3mm	.50mm	**554401**
4mm	.70mm	**554402**
5mm	.80mm	**554403**
6mm	1.00mm	**554404**
8mm	1.25mm	**554405**
10mm	1.50mm	**554406**
12mm	1.75mm	**554407**
14mm	2.00mm	**554408**
16mm	2.00mm	**554409**
18mm	2.50mm	**554410**
20mm	2.50mm	**554411**
24mm	3.00mm	**554412**

- **DIN 975 A2.**
- **1 meter lengths (39-3/8").**
- **Coarse thread.**
- **A2 stainless steel (similar to 18-8 stainless).**

Sizes: 3mm to 12mm
Part No. 554400
13 pieces • 7 items

554401	554403	554405	554407
554402	554404	554406	

Numbers in assortment

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THREADED INSERTS

HEAVY DUTY STEEL CLINCH-NUTS®

- **Strong load bearing threads.**
- **Install in practically any material.**
- **Use in any thickness material, from .030 to infinity.**

Clinch-nut installation

Clinch-Nuts are a one-piece design consisting of a nut portion and a sleeve portion.

A rotating tool mandrel exerts a pull and "breaks" the nut portion from the sleeve drawing it into the sleeve.

The nut portion expands the sleeve exerting a 360° swage fit against the parent material.

STEEL CLINCH-NUT PART NUMBER	QTY	THREAD SIZE	MATERIAL THICKNESS .030-.090 DRILL	.091-.124 DRILL	.125-.186 DRILL	.187-OVER DRILL	HEAVY DUTY ADAPTER PART NUMBER	LIGHT DUTY TOOL ONLY* PART NUMBER
503110	25	6-32	7/32	No.2	No.1	No.1	**503150**	---
503111	25	8-32	1/4	"F"	17/64	17/64	**503151**	**503176**
503112	25	(10-24) 3/16	9/32	"L"	"L"	19/64	**503152**	**503177**
503113	25	(10-32) 3/16	9/32	"L"	"L"	19/64	**503153**	**503178**
503114	25	1/4-20	3/8	3/8	"W"	25/64	**503154**	**503179**
503121	25	5/16-18	1/2	1/2	33/64	33/64	**503155**	**503180**

*** Sizes no. 6 & 8 supplied with hex key, sizes 10 thru 5/16 require std. socket wrench.**

HEAVY DUTY INSTALLATION TOOL

- **Simple to use.**
- **Adapters allow installation of any size Clinch-Nuts or Rivet-Nuts.**
- **Order adapters separately.**

Part No. 503115

CLINCH-NUT

Part No. 503121

LIGHT DUTY INSTALLATION TOOL

- **A unique time & money saver.**
- **Makes quick, quality repairs in the field.**
- **For the frequent user, use tool Part No. 503115.**

HEAVY DUTY CLINCH-NUT INSTALLATION TOOL ADAPTERS

Pre-assembled hex nose piece assemblies and "Quick Change" tool nose piece holder make installation fast and easy.

STEEL CLINCH-NUT with LIGHT DUTY INSTALLATION TOOLS

- **Steel clinch-nut kit and light duty installation tools in an easy to stock, easy to use assortment.**

Part No. 503008

106 pieces • 5 nuts • 5 tools • 12039 plastic tray

STEEL CLINCH-NUT	LIGHT DUTY TOOL ONLY*
8-32	8-32
3/16 (10-24)	10-24
3/16 (10-32)	10-32
1/4-20	1/4-20
5/16-18	5/16-18

*Size No. 8 supplied with hex key, sizes 10 thru 5/16 require std. socket wrench.

Numbers in assortment

RIVET-NUT BLIND THREADED RIVETS

- **Perfect for use in light-gauge materials of metal, plastic and rigid composition. Material previously too thin to tap threads can now be accommodated.**
- **A Rivet-Nut is a tubular rivet with internal threads. It can be installed from one side in seconds. Once a Rivet-Nut is installed, it is ready to use with clean threads available for screw attachments. Used for materials .010 through .125 in. thickness.**
- **The Rivet-Nut Insta-Threads are available in standard heads, which are surface mounted and extend slightly above the material in which they are installed. Also available are the expander heads (small flathead), which may be used for flush or 120° countersunk installations or wherever a smaller head may be required.**

Cut away illustration of Rivet-Nut Insta-Threads

PROPER TOOL SELECTION

- **Both Rivet-Nut tool, H.D. Clinch-Nuts and light duty installation tools will install all threaded inserts, Clinch-Nuts or Rivet-Nuts. However, due to the design of each type of threaded insert, we recommend that the Clinch-Nut tool or light duty tool be used for Clinch-Nut installation and that the Rivet-Nut tool be used for Rivet-Nut Insta-Thread installations.**

RIVET-NUT TOOL

Part No. 503910
Includes a mandrel and a nosepieces for 8-32, 10-24 and 10-32 inserts.

TOOL WARRANTY NOTE:
Rivet Setting Tool, Stock No. 503910, is not warranted by us. The manufacturer requires that tools be returned to them. Necessary information is packed with every tool.

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THREADED INSERTS

RIVET-NUT BLIND THREADED RIVETS

STANDARD HEAD LARGE FLANGE

EXPANDER SMALL FLANGE

THREAD SIZE (PITCH)	STEEL PART NUMBER	ALUM PART NUMBER	STEEL PART NUMBER	ALUM PART NUMBER	DRILL SIZE	GRIP RANGE	H.D. CLINCH-NUT TOOL	LIGHT DUTY INSTALLATION TOOL ADAPTER
6-32	**503914**	**503930**	**503921**	**503937**	3/16		**503150**	**---**
8-32	**503915**	**503931**	**503922**	**503938**	7/32	.010” min.	**503151**	**503176**
10-24	**503916**	**503932**	**503923**	**503939**	1/4	to	**503152**	**503177**
10-32	**503917**	**503933**	**503924**	**503940**	1/4	.080” max.	**503153**	**503178**
1/4-20	**503918**	**503934**	**503925**	**503941**	11/32		**503154**	**503179**
5/16-18	**---**	**503935**	**---**	**503942**	27/64	.020” min. to	**503155**	**503180**
3/8-16	**---**	**503936**	**---**	**503943**	1/2	.125” max.	**---**	**---**
M3.5-0.6	**---**	**504366***	**---**	**504372***	M4.9(3/16)		**n/a**	**n/a**
M4-0.7	**---**	**504367***	**---**	**504373***	M5.6(7/32)	M.25 min.	**n/a**	**n/a**
M5-0.8	**---**	**504368***	**---**	**504374***	M6.4(1/4)	to	**n/a**	**n/a**
M6-1.0	**---**	**---**	**---**	**504375***	M8.7(11/32)	M2.03 max.	**n/a**	**n/a**
M8-1.25	**---**	**504370***	**---**	**504376***	M10.5(27/64)	M.50 min. to	**n/a**	**n/a**
M10-1.5	**---**	**504371***	**---**	**504377***	M12.5(1/2)	M3.18 max.	**n/a**	**n/a**

***Discontinued when stock is depleted.**

MANDRELS AND NOSEPIECES FOR RIVET NUT TOOL #503910

THREAD SIZE	PART NUMBER	THREAD SIZE	PART NUMBER
6-32	**503980**	1/4-20	**503984***
8-32	**503981**	4mm	**503985**
10-24	**503982**	5mm	**503986**
10-32	**503983**	6mm	**503987***

***Mandrel only, nosepiece not required.**

GRIP-N-SERTS

A blind threaded insert with a large head for applications where large or irregular holes are a problem. Insert works in sheet metal, structural foam, fiberglass and some plastics. The axial knurl is first forced into the parent material and then upset over the backside to engage the knurl into the parent material providing very high resistance to spinning, the “bubble” of material over the backside provides very high pull-out loads.

- **Useable in oversize and irregular holes.**
- **High torque-out values-ribbed flange resists spinning due to cross threading or overtightening.**
- **High pull-out values - very hard to pull through material due to the “bubble” on the backside.**
- **Wide grip range - one length does the job of numerous other inserts.**
- **Blind installation - no access to backside required.**
- **Nearly flush.**
- **Install after surface finish - tool will not mar parent material.**
- **Designed to be used with grade 5 or metric 8.8.**
- **Steel - zinc/yellow dichromate plated.**

— STANDARD —

THREAD SIZE	PART NUMBER	GRIP RANGE	DRILL SIZE (INCHES)	HOLE SIZE	PART DRILL NUMBER
#6-32	**603175**	.020-.080	17/64	(.2656)	**813514**
#8-32	**603176**	.020-.080	17/64	(.2656)	**813514**
#10-24	**603177**	.020-.130	19/64	(.2969)	**813516**
#10-32	**603178**	.020-.130	19/64	(.2969)	**813516**
1/4-20	**603179**	.027-.165	25/64	(.3906)	**813522**
1/4-28	**603180**	.027-.165	25/64	(.3906)	**813522**
5/16-18	**603181**	.027-.150	17/32	(.5312)	**813608**
5/16-24	**603182**	.027-.150	17/32	(.5312)	**813608**
3/8-16	**603183**	.027-.150	17/32	(.5312)	**813608**
3/8-24	**603184**	.027-.150	17/32	(.5312)	**813608**

— METRIC —

THREAD SIZE	PART NUMBER	GRIP RANGE	DRILL SIZE (INCHES)	HOLE SIZE	PART DRILL NUMBER
M4 x 0.7	**603185**	.50-2.0	6.8	17/64	**813514**
M5 x 0.8	**603186**	.50-3.3	7.6	19/64	**813516**
M6 x 1.0	**603187**	.70-4.2	10.0	25/64	**813522**
M8 x 1.25	**603188**	.70-3.8	13.5	17/32	**813608**
M10 x 1.5	**603189**	.70-3.8	13.5	17/32	**813608**

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THREADED INSERTS

GRIP-N-SERT TECHNOLOGY™

HOW HOLE FILL WORKS FOR YOU

As the Grip-N-Sert is installed, the knurled body expands 360° FILLING THE HOLE. This feature provides exceptional torque strength and vibration resistance.

The installation tool then continues to exert a torque load on the insert forming a backside flange even in multiple or variable thickness materials - WITHOUT ADJUSTMENT.

GRIP-N-SERT TOOL

Part No. **603150**

INSTALLATION:

- **With tool handles in full open position, thread insert fully onto mandrel head side first.**
- **Place into the hole in your parent material.**
- **Squeeze tool handles together until the insert collapses.**
- **Unscrew the mandrel puller knob.**

THREAD SIZE	CONVERSION KIT PART NUMBER
6-32 USS	**603155**
8-32 USS	**603156**
10-24 USS	**603157**
10-32 SAE	**603158**
1/4-20 USS	**603159**
1/4-28 SAE	**603160**
5/16-18 USS	**603161**
5/16-24 SAE	**603162**

THREAD SIZE	CONVERSION KIT PART NUMBER
3/8-16 USS	**603163**
3/8-24 SAE	**603164**
M4 x 0.7	**603165**
M5 x 0.8	**603166**
M6 x 1.0	**603167**
M8 x 1.25	**603168**
M10 x 1.5	**603169**

GRIP-N-SERT W/TOOLS

Part No. 501651

168 pieces • 15 items • 12056 steel tray

GRIP-N-SERTS		CONVERSION KIT		TOOL
6-32	1/4-20	6-32	1/4-20	603150
8-32	5/16-18	8-32	5/16-18	
10-24	3/8-16	10-24	3/8-16	
10-32		10-32		

Numbers in assortment

GRIP-N-SERT W/O TOOLS

Part No. 501652

160 pieces • 7 items • 12056 steel tray

6-32	10-32	3/8-16
8-32	1/4-20	
10-24	5/16-18	

Numbers in assortment

A17

KEENSERTS®

Strong, permanent thread repairs - No special drills, taps or installation tools required.

- **Install using standard drills and taps.**
- **Easy hand installation.**
- **Impossible to cross threads while installing.**
- **No tang to break-off.**
- **Positive mechanical lock against rotation.**
- **May be used in virtually any material: Aluminum, Magnesium, Cast Iron, Steel and Plastic.**
- **Provides high strength & reliability, one length per size provides maximum pullout strength, breaks Grade 8 bolts in test after test.**
- **Easy to remove.**
- **No special skills required. Installation procedures can be learned in minutes.**

Quick and Easy to install...

Drill out old threads, using standard drill.

Tap new threads, using standard tap.

Screw in insert until slightly below surface. "Kees" act as depth stop.

* Drive "Kees" down with several light taps.

Finished.

* Use Keensert kee drive or standard tools.

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THREADED INSERTS

KEENSERT® THREADED INSERT ASSORTMENTS

MASTER KEENSERTS & KEE DRIVERS

Contains all coarse and fine thread Keenserts and all metric sizes plus one kee driver per inside dia. size

Part No. 713100

107 pieces • 28 items • 12062 steel tray

713111	713115	713119	713131	713135	713174	713164
713112	713116	713120	713132	713136	713175	713165
713113	713117	713121	713133	713171	713161	713166
713114	713118	713122	713134	713172	713162	713167

Numbers in assortment

USS (COARSE) & SAE (FINE)

Contains all sizes of coarse & fine thread Keenserts #10 - 1/2

Part No. 713103

52 pieces • 12 items
12043 plastic tray

713111	713114	713117	713120
713112	713115	713118	713121
713113	713116	713119	713122

Numbers in assortment

SHOP USS (COARSE)

Contains all sizes of coarse thread Keenserts #10 - 1/2

Part No. 713101

26 pieces • 6 items
12028 plastic tray

713111	713115	713119
713113	713117	713121

Numbers in assortment

SHOP SAE (FINE)

Contains all sizes of fine thread Keenserts #10 - 1/2

Part No. 713102

26 pieces • 6 items
12028 plastic tray

713112	713116	713120
713114	713118	713122

Numbers in assortment

MASTER KEENSERTS® REFERENCE GUIDE

Sometimes when you compare cost alone, you don't realize the entire story. Other factors must be considered. Quality of material, ease of installation, skill required and investment in special tools are all factors which favor keenserts over other inserts and make keenserts your most cost effective repair.

INTERNAL THREAD SIZE	EXTERNAL THREAD SIZE	KEENSERT STOCK NO.	DRILL SIZE & STOCK NO.	INSTALLATION DATA TAP SIZE & STOCK NO.	KEENSERTS KEE DRIVER	REMOVAL DATA DRILL SIZE & STOCK NO.	DRILL DEPTH
10-24	5/16-18	**713111**	"I"	5/16-18"	**713131**	7/32"	5/32"
10-32		**713112**	**813582**	813815		**813511**	
1/4-20	3/8-16	**713113**	"Q"	3/8-16"	**713132**	9/32"	3/16"
1/4-28		**713114**	**813590**	813816		**813515**	
5/16-18	7/16-14	**713115**	"X"	7/16-14"	**713133**	11/32"	3/16"
5/16-24		**713116**	**813597**	813817		**813519**	
3/8-16	1/2-13	**713117**	29/64"	1/2-13"	**713134**	13/32"	3/16"
3/8-24		**713118**	**813526**	813818		**813523**	
7/16-14	9/16-12	**713119**	33/64"	9/16-12"	**713135**	15/32"	3/16"
7/16-20		**713120**	**814755**	813819		**813527**	
1/2-13	5/8-11	**713121**	37/64"	5/8-11"	**713136**	17/32"	3/16"
1/2-20		**713122**	**814759**	813820		**813654**	
5/8-11	7/8-14	**713123**	53/64"	7/8-14"	**713137**	25/32"	3/16"
5/8-18		**713124**	**814775**			**813613**	
3/4-10	1-1/8-12	**713125**	1-1/16"	1-1/8-28"	**713138**	31/32"	3/16"
3/4-16		**713126**	**814788**			**813622**	
Metric Sizes							
M5 x 0.8	M8 x 1.25	**713161**	"H" **813581**	8 x 1.25	**713171**	7/32" **813511**	5/32"
M6 x 1.0	M10 x 1.25	**713162**	"S" **813592**	10 x 1.25	**713172**	19/64" **813516**	3/16"
M8 x 1.0	M12 x 1.25	**713164**	27/64"	12 x 1.25	**713174**	3/8"	3/16"
M8 x 1.25		**713165**	**813524**			**813521**	
M10 x 1.25	M14 x 1.50	**713166**	1/2"	14 x 1.50	**713175**	29/64"	
M10 x 1.50		**713167**	**813529**			**813526**	

SPARK PLUG KEENSERTS

REFILL PART NUMBER	QTY	SPARK PLUG SIZE	LENGTH (INCHES)	INSTALLATION DATA TAP DRILL DIA. (INCHES)	TAP SIZE	REMOVAL DATA DRILL SIZE (INCHES)	DRILL DEPTH (INCHES)	REFILL WASHER STOCK NO. 12 PER PAK
713186	4	M10 x 1.0	1/2	1/2	M14 x 1.5	29/64	3/16	**713193**
713187	4	M12 x 1.25	1/2	37/64	M16 x 1.5	17/32	3/16	**713194**
713188	4	M12 x 1.25	3/4			17/32	3/16	**713194**
713189	4	M14 x 1.25	3/8			21/32	1/4	**713195**
713190	4	M14 x 1.25	7/16			21/32	1/4	**713195**
713191	4	M14 x 1.25	1/2			21/32	1/4	**713195**
713192	4	M14 x 1.25	3/4			21/32	1/4	**713195**

- **Made from high-strength aluminum alloy, Keenserts operate as well as the original equipment.**
- **Can be used with tapered seat or gasket seat spark plugs.**
- **Sealing washers (included in each kit) provide a positive seal to prevent compression loss from the combustion chamber.**

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THREAD REPAIR

COIL-THREAD INSERTS (EXACT INTERCHANGE FOR HELI-COIL)

MASTER COIL-THREAD INSERTS
USS (COARSE) & SAE (FINE)
Part No. 813005 • 196 pieces • 24 items • 12045 plastic tray

USS (COARSE)	USS (COARSE)	USS (COARSE)	SAE (FINE)	SAE (FINE)
10-24	1/2-13	M7 x 1.00	10-32	1/2-20
1/4-20	5/8-11	M8 x 1.25	1/4-28	5/8-18
5/16-18	3/4-10	M10 x 1.50	5/16-24	3/4-16
3/8-16	7/8-9	M12 x 1.75	3/8-24	7/8-14
7/16-14	M6 x 1.00		7/16-20	M8 x 1.00

Numbers in assortment

Permanent, wear-resistant, corrosion resistant Stainless Steel inserts.

COIL-THREAD INSERTS
USS (COARSE)
Part No. 813006
84 pieces • 11 items
12038 plastic tray

8-32	5/16-18	1/2-13	7/8-9
10-24	3/8-16	5/8-11	1-8
1/4-20	7/16-14	3/4-10	

Numbers in assortment

COIL-THREAD INSERTS
SAE (FINE)
Part No. 813007
76 pieces • 10 items
12039 plastic tray

10-32	3/8-24	5/8-18	1-14
1/4-28	7/16-20	3/4-16	
5/16-24	1/2-20	7/18-14	

Numbers in assortment

COIL-THREAD INSERTS
METRIC
Part No. 813008
64 pieces • 8 items
12039 plastic tray

M5 x .80	M8 x 1.00	M12 x 1.75
M6 x 1.00	M8 x 1.25	M14 x 2.00
M7 x 1.00	M10 x 1.50	

Numbers in assortment

COIL-THREAD INSERTS
USS (COARSE)
Part No. 501644
99 pieces • 11 items
12061 steel tray

8-32	5/16-18	1/2-13	7/8-9
10-24	3/8-16	5/8-11	1-8
1/4-20	7/16-14	3/4-10	

Numbers in assortment

COIL-THREAD INSERTS
SAE (FINE)
Part No. 501645
91 pieces • 10 items
12061 steel tray

10-32	3/8-24	5/8-18	1-14
1/4-28	7/16-20	3/4-16	
5/16-24	1/2-20	7/18-14	

Numbers in assortment

COIL-THREAD INSERTS
METRIC USS (COARSE)
Part No. 501646
100 pieces • 10 items
12061 steel tray

M5 x .80	M8 x 1.25	M12 x 1.75	M20 x 2.50
M6 x 1.00	M9 x 1.25	M16 x 2.00	
M7 x 1.00	M10 x 1.50	M18 x 2.50	

Numbers in assortment

COIL-THREAD INSERTS
METRIC SAE (FINE)
Part No. 501647
95 pieces • 12 items
12061 steel tray

M8 x 1.00	M12 x 1.25	M16 x 1.50	M20 x 1.50
M10 x 1.00	M12 x 1.50	M18 x 2.50	M20 x 2.00
M10 x 1.25	M14 x 1.50	M18 x 2.00	M22 x 1.50

Numbers in assortment

NOTE: Assortments do not include drills, taps or installation tools

SIMPLE INSTALLATION

The first step in creating a new, stronger thread is cleaning up the original, damaged threads. This is done with a standard drill, the size of which is indicated on the coil-thread chart. The hole is then tapped with an oversize tap. The free diameter of the coil-thread insert is larger than the new threaded hole, but it is easily "wound" into place with the inserting tool provided.

Once in place, the insert tends to spring back to its original diameter, giving it a very strong grip in the hole.

Finally, the driving tang is broken off by tapping downward with the end of the inserting tool. If necessary, inserts can be removed, using one of the extracting tools shown on the next page.

DRILL TAP INSTALL TANG REMOVAL

COIL-THREAD SPARK PLUG INSERT ASSORTMENT

Inserts in this kit are designed for use in the repair or modification of spark plug threads.

- **The original spark plug port thread repair.**
- **Highest quality and most durable repair available.**
- **First choice of professional mechanics and engine rebuilders.**
- **Preferred method of repair by virtually all vehicle manufacturers.**

14mm SPARK PLUG REPAIR KIT
Part No. 713215
Master kit includes complete instructions & tools for installation.

12-14mm-1.25	*Contains:
Stainless Steel Inserts*	6 each 3/8" and 3/4" lengths
1- Pilot Tap	Packed in a heavy duty storage box.
1- Installation tool	

Numbers in assortment

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THREAD REPAIR

COIL-THREAD INSERTS AND TOOLS

SIZE	INSTALLATION TOOL	TAP	INSERTS	INSERTS PER PACKAGE	DRILL SIZE
USS/COARSE					
8-32	**813488**	**813400**	**813382**	25	11/64
10-24	**813489**	**813401**	**813320**	25	13/64
1/4-20	**813476**	**813402**	**813321**	25	17/64
5/16-18	**813477**	**813403**	**813322**	25	21/64
3/8-16	**813479**	**813404**	**813323**	25	25/64
7/16-14	**813481**	**813405**	**813324**	10	29/64
1/2-13	**813482**	**813406**	**813325**	10	17/32
5/8-11	**813484**	**813407**	**813326**	3	21/32
3/4-10	**813485**	**813408**	**813327**	3	25/32
7/8-9	**813491**	**813409**	**813328**	3	29/32
1-8	**813487**	**813410**	**813329**	3	1-1/32
SAE/FINE					
10-32	**813490**	**813411**	**813330**	25	13/64
1/4-28	**813477**	**813412**	**813331**	25	17/64
5/16-24	**813478**	**813413**	**813332**	25	21/64
3/8-24	**813480**	**813414**	**813333**	25	25/64
7/16-20	**813482**	**813473**	**813334**	10	29/64
1/2-20	**813483**	**813474**	**813335**	10	33/64
5/8-18	**813484**	**813496**	**813336**	3	41/64
3/4-16	**813486**	**813497**	**813337**	3	49/64
7/8-14	**813491**	**813498**	**813338**	3	57/64
1-14	**813492**	**813420**	**813339**	3	1-1/64

SPARK PLUG INSERTS	
PART NUMBER	SIZE
813415	10 x 1.0 x 1/2
813416	14 x 1.25 x 3/8
813417	14 x 1.25 x 7/16
813418	14 x 1.25 x 1/2
813419	14 x 1.25 x 3/4

SIZE	INSTALLATION TOOL	TAP	INSERTS	INSERTS PER PACKAGE	DRILL SIZE
METRIC/COARSE					
M5 x .80	**813490**	**813421**	**813460**	25	13/64
M6 x 1.00	**813476**	**813422**	**813461**	25	1/4
M7 x 1.00	**813477**	**813423**	**813462**	25	9/32
M8 x 1.25	**813478**	**813424**	**813463**	25	21/64
M9 x 1.25	**813479**	**813425**	**813447**	25	3/8
M10 x 1.50	**813480**	**813426**	**813465**	25	13/32
M11 x 1.50	**813481**	**713202**	**713201***	12	29/64
M12 x 1.75	**813482**	**813427**	**813466**	12	31/64
M14 x 2.00	**813483**	**813428**	**813467**	12	37/64
M16 x 2.00	**813484**	**813429**	**813448**	3	21/32
M18 x 2.50	**813485**	**813430**	**813449**	3	47/64
M20 x 2.50	**813486**	**813431**	**813450**	3	13/16

*** Used on GM steering knuckle/caliper threads.**

METRIC/FINE					
M8 x 1.00	**813478**	**813432**	**813464**	25	21/64
M9 x 1.00	**813479**	**813433**	**813451**	25	3/8
M10 x 1.00	**813481**	**813434**	**813452**	25	13/32
M10 x 1.25	**813480**	**813435**	**813453**	25	13/32
M11 x 1.00	**813482**	**813436**	**813454**	12	29/64
M11 x 1.25	**813482**	**813437**	**813455**	12	29/64
M12 x 1.25	**813482**	**813438**	**813456**	12	31/64
M12 x 1.50	**813482**	**813439**	**813457**	12	31/64
M14 x 1.50	**813483**	**813440**	**813458**	12	9/16
M16 x 1.50	**813485**	**813441**	**813459**	3	21/32
M18 x 1.50	**813486**	**813442**	**813468†**	3	23/32
M18 x 2.00	**813486**	**813443**	**813469**	3	23/32
M20 x 1.50	**813487**	**813444**	**813470**	3	13/16
M20 x 2.00	**813487**	**813445**	**813471**	3	13/16
M22 x 1.50	**813487**	**813446**	**813472**	3	57/64

† Used to repair oxygen sensor threads.

EXTRACTING TOOL

The simple and time-saving method for removing an insert. Three sizes cover all thread sizes.

PART NUMBER	UNC & UNF	METRIC COARSE/FINE
813493	3 thru 8	M2 thru M4
813494	10 thru 3/8	M5 thru M10
813495	7/16 thru 1	M11 thru M24

INSERT TOOLS (Representative illustration)

Simple, easy to use. Also has second function as the tang break-off tool.

For sizes up to: 1/2" UNC, 7/16" UNF — 12mm Metric Coarse, 14mm Metric Fine

For sizes: 5/8" & Up UNC, 1/2" & Up UNF — 12mm & Up Metric Coarse, 14mm & Up Metric Fine

HELI-COIL OIL DRAIN PAN REPAIR KITS

Repairs stripped threads in oil pans. Allows original drain plug to be used to give leak-tite seal.

- **Saves the time and cost of replacing oil drain pans in Ford Products (1/2") & Honda/Acura (14mm).**
- **Made by Heli-Coil, the industry leader in thread repair.**
- **Simple 3 step process which can be performed with very little training:**
  1. Drill out the damaged threads using the drill size specified.
  2. Tap. Use the Heli-Coil tap supplied in the kit.
  3. Install. Use the installation tool and inserts supplied in the kit.
  Now you are back to the original size hole and the original size plug can be used.

Kit Contents:
Tap, Installation Tool, Inserts

THREAD SIZE	COMPLETE KIT PART NO.	INSERTS PER KIT
1/2" - 20	**713205**	6
14mm x 1.5	**713210**	6

Replacement Parts:

TAP PART NO.	INSTALLATION TOOL PART NO.	INSERT PACKAGE PART NO.	PKG'D INSERT QTY.	DRILL* SIZE
713206	**713207**	**713208**	6	33/64
713211	**713212**	**713213**	6	9/16

***Drills not included in kits. See section D10 for drills.**

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HITCH and COTTER PINS

HITCH PIN (HAIR PIN) COTTERS

Protected by
LUSTERPLATE™
against rust & corrosion

Used to secure clevis pins, headless pins, hitch pins, etc.

- **Heat-treated spring steel.**
- **Insert straight side through holes, bent side provides spring retention.**

Part No. 501627
412 pieces • 30 items
12062 steel tray

51791	51796	51852	51857	51862	51867
51792	51798	51853	51858	51863	51868
51793	51799	51854	51859	51864	51869
51794	51850	51855	51860	51865	51870
51795	51851	51856	51861	51866	51873

Numbers in assortment

Part No. 51790
64 pieces • 6 items
12028 plastic tray

51791	51793	51795
51792	51794	51796

Numbers in assortment

WIRE DIA. "C"	OVERALL LENGTH "A"	PART NUMBER	DRILL HOLE SIZE	MIN. SHAFT DIA.	MAX. SHAFT DIA	INSIDE DIA. OF EYE "B"	QTY
.035	7/16	**51850**	.040	7/64	9/64	.078	50
.042	7/16	**51851**	.047	1/16	1/8	.080	50
.042	1	**51852**	3/64	3/16	1/4	1/4	50
.047	19/32	**51853**	1/16	1/8	3/16	1/8	50
.047	1-9/16	**51854**	1/16	1/4	3/8	5/16	50
.054	3/4	**51855**	1/16	3/16	1/4	1/8	50
.054	7/8	**51856**	1/16	1/4	3/8	9/64	50
.062	1-5/16	**51857**	5/64	1/4	1/2	5/16	25
.062	1-9/16	**51792**	5/64	3/8	1/2	5/16	50
.072	1-3/32	**51858**	5/64	5/16	3/8	9/64	25
.072	1-7/8	**51859**	5/64	3/8	1/2	5/8	25
.080	1-3/16	**51860**	3/32	1/4	3/8	1/4	25
.080	1-9/16	**51791**	3/32	3/8	1/2	5/16	50
.094	1-5/8	**51861**	7/64	1/4	1/2	3/8	25
.094	2-5/16	**51794**	7/64	1/4	5/8	5/8	24
.094	2	**51862**	7/64	3/8	1/2	5/8	25
.094	2-1/2	**51863**	7/64	3/8	3/4	7/16	25
.094	1-1/8	**51864**	7/64	1/4	1/2	1/4	25
.125	1-9/16	**51865**	9/64	1/2	3/4	7/16	25
.125	1-15/16	**51793**	9/64	1/2	3/4	7/16	50
.125	2-9/16	**51866**	9/64	7/16	3/4	9/16	25
.125	2-1/2	**51795**	9/64	5/8	7/8	1/2	24
.125	2-7/8	**51867**	9/64	3/4	1-1/8	9/16	10
.148	3-5/16	**51868**	5/32	3/4	1-1/8	3/4	10
.148	2-15/16	**51869**	5/32	5/8	1	3/4	10
.162	2-3/16	**51870**	3/16	7/8	1-1/16	7/8	10
.177	3-1/2	**51798**	3/16	3/4	1-1/16	1	10
.177	3-1/4	**51799**	3/16	5/8	1	7/8	10
.177	3-3/4	**51796**	3/16	7/8	1-1/4	7/8	24
.243	4	**51871**	17/64	3/4	1	15/16	10
.243	5-1/4	**51872**	17/64	1-1/4	1-1/2	1-3/8	10
.250	3-1/4	**51873**	17/64	3/4	1	3/4	10
.310	3-15/16	**51874**	21/64	7/8	1	7/8	10

COTTER PINS

Protected by
LUSTERPLATE™
against rust & corrosion

- **Offset ends for easy locking.**
- **Finest high strength steel.**
- **Precision parallel shanks.**

	DIA. 1/32		DIA. 3/64		DIA. 1/16		DIA. 3/32		DIA. 7/64		DIA. 1/8		DIA. 5/32	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	**51775**	500	**51777**	500	**51706**	500	**51713**	500	**51830**	250	**51722**	500	**---**	-
3/4	**51776**	500	**51778**	500	**51707**	500	**51714**	500	**51831**	250	**51723**	500	**51732**	200
1	**---**	-	**51779**	500	**51708**	500	**51715**	500	**51832**	250	**51724**	500	**51733**	200
1-1/4	**---**	-	**---**	-	**51709**	500	**51716**	500	**51833**	250	**51725**	500	**51734**	200
1-1/2	**---**	-	**---**	-	**51710**	500	**51717**	500	**51834**	250	**51726***	500	**51735**	200
1-3/4	**---**	-	**---**	-	**51711**	500	**51718**	500	**51835**	250	**51727**	500	**51736**	200
2	**---**	-	**---**	-	**51712**	500	**51719**	500	**51836**	250	**51728**	500	**51737**	200
2-1/4	**---**	-	**---**	-	**---**	-	**---**	-	**---**	-	**---**	-	**51738**	200
2-1/2	**---**	-	**---**	-	**51801**	100	**51721**	500	**51837**	100	**51730**	200	**51739**	200
3	**---**	-	**---**	-	**51802**	100	**51720**	100	**51838**	100	**51731**	200	**51805**	50
3-1/2	**---**	-	**---**	-	**---**	-	**---**	-	**---**	-	**51729**	50	**51806**	50
4	**---**	-	**---**	-	**---**	-	**---**	-	**---**	-	**51803**	50	**51807**	50

***Most popular vehicle application.**

	DIA. 3/16		DIA. 1/4		DIA. 5/16		DIA. 3/8		DIA. 7/16		DIA. 1/2	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1	**51740**	200	**51748**	50	**51759**	50	**---**	-	**---**	-	**---**	-
1-1/4	**---**	-	**51749**	50	**51760**	50	**---**	-	**---**	-	**---**	-
1-1/2	**51741**	200	**51750**	50	**51761**	50	**51768**	50	**---**	-	**---**	-
1-3/4	**---**	-	**51751**	50	**51762**	50	**---**	-	**---**	-	**---**	-
2	**51742**	100	**51752**	50	**51763**	50	**51769**	50	**51814**	5	**51820**	5
2-1/4	**51743**	100	**51753**	50	**51764**	50	**---**	-	**---**	-	**---**	-
2-1/2	**51744**	100	**51754**	50	**51765**	50	**51770**	50	**51815**	5	**51821**	5
3	**51745**	100	**51755**	50	**51766**	50	**51771**	50	**51816**	5	**51822**	5
3-1/2	**51746**	50	**51756**	50	**51767**	10	**51772**	50	**---**	-	**51823**	5
4	**51747**	50	**51757**	50	**51810**	10	**51773**	50	**51817**	5	**51824**	5
4-1/2	**---**	-	**51758**	10	**---**	-	**---**	-	**---**	-	**---**	-
5	**---**	-	**51808**	10	**51811**	10	**51774**	5	**51818**	5	**51825**	5
6	**---**	-	**51809**	10	**51812**	5	**51813**	5	**51819**	5	**51826**	5

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COTTER PINS

COTTER PIN ASSORTMENTS

SMALL DIAMETER
Part No. 501008L
4265 pieces • 23 items • 12017 steel tray

1/16" x 1/2"	3/32" x 1/2"	1/8" x 1"	5/32" x 1-1/4"
1/16" x 3/4"	3/32" x 3/4"	1/8" x 1-1/4"	5/32" x 1-1/2"
1/16" x 1"	3/32" x 1"	1/8" x 1-1/2"	5/32" x 1-3/4"
1/16" x 1-1/4"	3/32" x 1-1/4"	1/8" x 1-3/4"	5/32" x 2"
1/16" x 1-1/2"	3/32" x 1-1/2"	1/8" x 2"	3/16" x 1-1/2"
1/16" x 2"	3/32" x 2"	5/32" x 1"	

1/2 QUANTITY AVAILABLE ORDER NO. 501008M
Numbers in assortment

LARGE DIAMETER
Part No. 501009L
640 pieces • 11 items • 12061 steel tray

1/8" x 2-1/2"	3/16" x 2"	1/4" x 2-1/2"
1/8" x 3"	3/16" x 2-1/2"	1/4" x 3"
5/32" x 2"	3/16" x 3"	5/16" x 1-3/4"
5/32" x 2-1/2"	1/4" x 2"	

1/2 QUANTITY AVAILABLE ORDER NO. 501009M
Numbers in assortment

Part No. 51701
320 pieces • 6 items • 12028 plastic tray

1/16" x 1"	3/32" x 1-1/2"	1/8" x 1-1/2"
3/32" x 1"	1/8" x 1"	1/8" x 2"

Numbers in assortment

Part No. 51702
942 pieces • 12 items • 12038 plastic tray

1/16" x 1/2"	3/32" x 3/4"	1/8" x 1"	1/8" x 2"
1/16" x 1"	3/32" x 1"	1/8" x 1-1/4"	5/32" x 2"
3/32" x 1/2"	3/32" x 1-1/2"	1/8" x 1-1/2"	3/16" x 2"

Numbers in assortment

COTTER PIN REMOVAL PLIERS

- **Extract cotter pins without damage to pin.**
- **Vinyl cushion grips for user comfort.**
- **Heavy gauge steel for ling life.**

Part No. 114435

WEDG-LOK COTTER PINS

Ideal for heavy industrial machinery, farm and mining equipment, off-road construction equipment and railroad rolling stock.

SIZE	PART NUMBER	HOLE SIZE	RECOMMENDED SHAFT DIAMETER MIN.	MAX.	QTY
5/16 x 2	**512401**	3/8	3/4	1	25
5/16 x 2-1/2	**512402**	3/8	1	1-1/4	25
5/16 x 3	**512403**	3/8	1-5/16	1-1/2	25
5/16 x 3-1/2	**512404**	3/8	1-5/16	1-1/2	25
3/8 x 2-1/2	**512405**	7/16	1	1-1/4	25
3/8 x 3	**512406**	7/16	1-5/16	1-1/2	25
3/8 x 3-1/2	**512407**	7/16	1-5/16	1-1/2	20

- **Creates a positive lock to meet new safety regulations.**
- **Stops vandalism - completely tamper proof.**
- **Stops wear due to vibration from constant use.**
- **Versatile, permanent and safe.**
- **Pins include patented wedge.**

RUE™ RING COTTER PINS

Used for light to medium applications.

Protected by
LUSTERPLATE™
against rust & corrosion

- **Automatic lock - the safest cotter pin available. Surrounds the shaft and locks itself on.**
- **Fast and easy to install or remove - no special tools needed.**
- **Manual secondary lock which tensions Rue Ring tight and dampens vibration.**
- **Manufactured of hard drawn spring wire.**

FITS SHAFT SIZE	A MIN. / MAX.	B WIRE SIZE	C LENGTH	PART NUMBER	QTY
1/4	.257/.267	.041	.844	**512410**	25
5/16	.320/.330	.047	1.044	**512411**	25
3/8	.382/.392	.054	1.214	**512412**	25
1/2	.510/.520	.062	1.420	**512413**	10
5/8	.635/.645	.072	1.690	**512414**	10
3/4	.760/.770	.080	2.081	**512415**	10
7/8	.885/.895	.105	2.506	**512416**	10
1	1.010/1.020	.105	2.756	**512417**	10

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COTTER and CLEVIS PINS

BOW-TIE™ LOCKING COTTERS

Protected by
LUSTERPLATE™
against rust & corrosion

Makes other cotters obsolete in application after application!

- **Vibration proof.**
- **More secure.**
- **No tools needed.**
- **Easy on & off.**
- **Retrofits most cotters.**
- **Made from quality steel.**
- **Locking mechanism works best when Bow-Tie™ fit is loose.**

THE ULTIMATE LOCKING COTTER PIN...

- **Works like a hair pin cotter, but locks!**
- **Works in any hole location!**
- **Increases safety, reduces liability!**

PART NUMBER	QTY	WIRE DIA.	LENGTH	FITS SHAFT SIZES	MINIMUM HOLE DIA.
512441	25	.072	1-3/8	1/4-5/16	3/32
512442	25	.091	1-7/8	5/16-3/8	7/64-1/8
512443	25	.120	2-3/4	7/16-1/2	9/64-5/32

E-Z TO INSTALL

To install, push or pull Bow-Tie™ into hole.

Bow-Tie™ snaps into a zero-tension locked position.

You can even flip the Bow-Tie™ over the end it stays locked.

Pull locking loop up and over to release.

UNIVERSAL CLEVIS PINS

Lawn and garden, scaffolding, construction equipment, automotive, RV, truck and fleet, maintenance, agriculture and mining.

- **Constructed of carbon steel.**
- **Meets SAE specifications.**
- **Natural polished finish.**

Part No. 52101
18 pieces • 3 items
12032 plastic tray

52105 **52106** **52107**

Numbers in assortment

LENGTH	DIA. 1/4 3/32 HOLE SIZE PART NUMBER	QTY	DIA. 5/16 1/8 HOLE SIZE PART NUMBER	QTY	DIA. 3/8 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 7/16 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 1/2 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 5/8 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 3/4 3/16 HOLE SIZE PART NUMBER	QTY
2	**52105**	12	**52106**	12	**52107**	12	**521101**	5	**521103**	5	---	-	---	-
2-1/2	---	-	---	-	---	-	**52108**	6	**52109**	6	---	-	---	-
3	---	-	---	-	---	-	**521102**	5	**521104**	5	**52110**	6	**521105**	2

1/4 through 7/16 x 2-1/2 have 5 holes, all others have 7 holes.

SINGLE HOLE CLEVIS PINS

To secure clevis pins use:
Spring roll pins Hitch pin cotters Cotter pins

Lawn and garden, scaffolding, construction equipment, automotive, RV, truck and fleet, maintenance, agriculture and mining.

- **Constructed of carbon steel.**
- **Meets SAE specifications.**
- **Natural polished finish.**

LENGTH	DIA. 1/4 3/32 HOLE SIZE PART NUMBER	QTY	DIA. 5/16 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 3/8 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 7/16 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 1/2 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 5/8 5/32 HOLE SIZE PART NUMBER	QTY	DIA. 3/4 5/32 HOLE SIZE PART NUMBER	QTY
3/4	**521125**	10	---	-	---	-	---	-	---	-	---	-	---	-
7/8	**521126**	10	---	-	---	-	---	-	---	-	---	-	---	-
31/32	---	-	**521128**	10	---	-	---	-	---	-	---	-	---	-
1	**521127**	10	**52113**	12	**521133**	10	---	-	---	-	---	-	---	-
1-3/32	---	-	---	-	**521134**	10	---	-	---	-	---	-	---	-
1-1/8	**52112**	12	**521129**	10	**52115**	12	---	-	---	-	---	-	---	-
1-1/4	**521154**	10	**521130**	10	**52116**	12	**521136**	5	**521140**	5	**521142**	5	---	-
1-3/8	---	-	**52114**	12	**521156**	10	---	-	---	-	---	-	---	-
1-1/2	**521155**	10	**521131**	10	**521135**	10	**521137**	5	**52118**	6	**521143**	5	---	-
1-3/4	---	-	**521132**	10	**52117**	12	**521138**	5	**52119**	6	**521144**	5	---	-
2	**521149**	10	**521150**	10	**52196**	6	**521139**	5	**521141**	5	**521145**	5	**521146**	5
2-1/4	---	-	**521151**	10	**52197**	6	---	-	---	-	---	-	---	-
2-1/2	---	-	**521152**	10	**52198**	6	---	-	---	-	---	-	**521147**	5
3	---	-	**521153**	10	---	-	---	-	---	-	---	-	**521148**	5

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CLEVIS and SPRING ROLL PINS

SINGLE HOLE CLEVIS PINS and HITCH PIN COTTERS

Part No. 52102
52 pieces • 12 items • 12038 plastic tray

HITCH PIN	SINGLE HOLE	SINGLE HOLE
3/8" to 1/2"	1/4" x 1-1/8"	3/8" x 1-1/4"
1/4" to 5/8"	5/16" x 1"	3/8" x 1-3/4"
1/2" to 3/4"	5/16" x 1-3/8"	1/2" x 1-1/2"
5/8" to 7/8"	3/8" x 1-1/8"	1/2" x 1-3/4"

Numbers in assortment

Part No. 501563
130 pieces • 16 items • 12050 steel tray

HITCH PIN	SINGLE HOLE	SINGLE HOLE
3/8" to 1/2"	1/4" x 1-1/8"	7/16" x 1-1/4"
1/4" to 5/8"	5/16" x 1"	1/2" x 1-1/2"
1/2" to 3/4"	5/16" x 1-3/8"	1/2" x 1-3/4"
5/8" to 7/8"	3/8" x 1-1/8"	5/8" x 1-1/2"
	3/8" x 1-1/4"	5/8" x 2"
	3/8" x 1-3/4"	3/4" x 2"

Numbers in assortment

UNIVERSAL and SINGLE HOLE CLEVIS PINS

Part No. 52103
48 pieces • 12 items • 12038 plastic tray

UNIVERSAL	SINGLE HOLE	SINGLE HOLE
1/4' x 2"	1/8" x 1-1/8"	1/2" x 1-1/2"
5/16" x 2"	5/16"x 1"	1/2" x 1-3/4"
3/8" x 2"	5/16" x 1-3/8"	
7/16" x 2-1/2"	3/8" x 1-1/4"	
1/2" x 2-1/2"	3/8" x 1-3/4"	

Numbers in assortment

Part No. 501598
150 pieces • 15 items • 12017 steel tray

UNIVERSAL	SINGLE HOLE	SINGLE HOLE
1/4' x 2"	1/4" x 7/8"	3/8" x 2"
5/16" x 2"	5/16" x 1"	7/16" x 1-1/4"
3/8" x 2"	5/16" x 1-3/4"	7/16" x 1-3/4"
7/16" x 2"	3/8" x 1-1/8"	1/2" x 1-1/2"
1/2" x 2"	3/8" x 1-1/2"	1/2" x 1-1/4"

Numbers in assortment

SPRING ROLL PINS

	DIA. 1/16		DIA. 5/64		DIA. 3/32		DIA. 1/8		DIA. 5/32		DIA. 3/16	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/16	53005	100	---	-	---	-	---	-	---	-	---	-
1/4	53072	100	53008	100	53077	100	---	-	---	-	---	-
5/16	53006	100	---	-	---	-	---	-	---	-	---	-
3/8	53073	100	53038	100	53078	100	53079	100	---	-	---	-
7/16	---	-	---	-	53040	100	---	-	---	-	---	-
1/2	53037	100	53009	100	53041	100	53047	100	53080	100	53053	100
9/16	---	-	---	-	53042	100	---	-	---	-	---	-
5/8	53074	100	53039	100	53011	100	53014	100	53036	100	53020	100
3/4	53007	100	53076	100	53043	100	53048	100	53051	100	53054	100
7/8	---	-	---	-	53044	100	53049	100	53052	100	53055	100
1	53075	100	53010	100	53012	100	53035	100	53018	100	53021	100
1-1/8	---	-	---	-	53045	100	---	-	---	-	---	-
1-1/4	---	-	---	-	53013	100	53016	100	53081	100	53022	100
1-3/8	---	-	---	-	---	-	---	-	---	-	---	-
1-1/2	---	-	---	-	53046	100	53050	100	53019	100	53056	100
1-3/4	---	-	---	-	---	-	---	-	---	-	53082	100
2	---	-	---	-	---	-	---	-	---	-	53083	100

	DIA. 7/32		DIA. 1/4		DIA. 5/16		DIA. 3/8		DIA. 7/16		DIA. /2	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
1/2	---	-	---	-	---	-	---	-	---	-	---	-
5/8	53023	100	53026	50	---	-	---	-	---	-	---	-
3/4	53084	100	53059	50	53029	50	53032	24	---	-	---	-
7/8	---	-	---	-	53091	50	---	-	---	-	---	-
1	53057	100	53060	50	53062	50	53065	24	53200	10	---	-
1-1/4	53085	100	53027	50	53092	50	53066	24	53201	10	---	-
1-3/8	53024	100	---	-	53063	50	---	-	---	-	---	-
1-1/2	53058	100	53061	50	53030	50	53033	24	53067	24	53069	24
1-3/4	53025	100	53028	50	53093	50	53097	10	53202	10	53230	10
2	53086	100	53071	50	53031	50	53034	24	53068	24	53070	24
2-1/4	---	-	53087	50	53064	50	---	-	---	-	---	-
2-1/2	---	-	53088	50	53094	50	53098	10	53203	10	53231	10
2-3/4	---	-	53089	50	53095	50	---	-	---	-	---	-
3	---	-	53090	50	53096	50	53099	10	53229	10	53232	10
3-1/2	---	-	---	-	---	-	---	-	---	-	53233	10
4	---	-	---	-	---	-	---	-	---	-	53234	10

Replaces grooved pins, cotter pins, set screws, clevis pins, dowels, rivets, tapered pins, gear hubs, headed pins, bolts and nuts.

- **Self locking spring action provides continuous holding power.**
- **High carbon spring steel. Heat treated. Chamfered ends.**

SEE SECTION A16 FOR METRIC ROLL PINS

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SPRING ROLL and SPIRAL SPRING PINS

SPRING ROLL PIN ASSORTMENTS

Part No. 501089
570 pieces • 30 items • 12017 steel tray

1/16" x 3/16"	3/32" x 1-1/4"	3/16" x 1"	5/16" x 3/4"
1/16" x 5/16"	1/8" x 5/8"	3/16" x 1-1/4"	5/16" x 1-1/2"
1/16" x 3/4"	1/8" x 1"	7/32" x 5/8"	5/16" x 2"
5/64" x 1/4"	1/8" x 1-1/4"	7/32" x 1-3/8"	3/8" x 3/4"
5/64" x 1/2"	5/32" x 5/8"	7/32" x 1-3/4	3/8" x 1-1/2"
5/64" x 1"	5/32" x 1"	1/4" x 5/8"	3/8" x 2"
3/32" x 5/8"	5/32" x 1-1/2"	1/4" x 1-1/4"	
3/32" x 1"	3/16" x 5/8"	1/4" x 1-3/4"	

Numbers in assortment

Part No. 501090
440 pieces • 24 items • 12017 steel tray

1/16" x 1/2"	1/8" x 1"	3/16" x 1-1/4"	5/16" x 2"
5/64" x 3/8"	1/8" x 1-1/2"	7/32" x 1"	3/8" x 1"
5/64" x 5/8"	5/32" x 5/8"	1/4" x 3/4"	3/8" x 2"
3/32" x 1/2"	5/32" x 7/8"	1/4" x 1-1/4"	7/16" x 1-1/2"
3/32" x 1"	5/32" x 1"	5/16" x 1"	1/2" x 1-1/2"
1/8" x 1/2"	3/16" x 3/4"	5/16" x 1-1/2"	1/2" x 2"

Numbers in assortment

Part No. 53001
251 pieces • 30 items • 12040 plastic tray

1/16" x 3/16"	5/64" x 1/2"	3/32" x 1-1/4"	5/32" x 5/8"	3/16" x 1"	7/32" x 1-3/4	5/16" x 3/4"	3/8" x 1-1/2"
1/16" x 5/16"	5/64" x 1"	1/8" x 5/8"	5/32" x 1"	3/16" x 1-1/4"	1/4" x 5/8"	5/16" x 1-1/2"	3/8" x 2"
1/16" x 3/4"	3/32" x 5/8"	1/8" x 1"	5/32" x 1-1/2"	7/32" x 5/8"	1/4" x 1-1/4"	5/16" x 2"	
5/64" x 1/4"	3/32" x 1"	1/8" x 1-1/4"	3/16" x 5/8"	7/32" x 1-3/8"	1/4" x 1-3/4"	3/8" x 3/4"	

Numbers in assortment

SPIRAL SPRING PINS

Replaces grooved pins, cotter pins, set screw, clevis pins, dowels, rivets, tapered pins, hub on a gear headed pins, bolt and nut.

- **Absorbs shock and vibration.**
- **Conforms to out of round hole and accommodates wider hole tolerance.**
- **Swaged chamfers. Uniform length and flexibility.**
- **Equal stress distribution. Controlled radial shock.**
- **Reduces fastener costs.**
- **Heat treated carbon spring steel.**

	DIA. 1/16		DIA. 5/64		DIA. 3/32		DIA. 1/8		DIA. 5/32		DIA. 3/16		DIA. 7/32		DIA. 1/4	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
5/16	**530100**	100	---	-	---	-	---	-	---	-	---	-	---	-	---	-
3/8	---	-	**530105**	100	**530110**	100	**530120**	100	---	-	---	-	---	-	---	-
7/16	---	-	---	-	**530111**	100	---	-	---	-	---	-	---	-	---	-
1/2	**530101**	100	**530106**	100	**530112**	100	**530121**	100	**530128**	50	**530137**	50	---	-	---	-
9/16	---	-	---	-	**530113**	100	---	-	---	-	---	-	---	-	---	-
5/8	**530102**	100	**530107**	100	**530114**	100	**530122**	100	**530129**	50	---	-	**530148**	50	**530155**	25
3/4	**530103**	100	**530108**	100	**530115**	100	**530123**	50	**530130**	50	**530138**	50	**530149**	25	**530156**	25
7/8	---	-	---	-	**530116**	100	**530124**	50	**530131**	50	**530139**	25	---	-	**530157**	25
1	**530104**	100	**530109**	100	**530117**	100	**530125**	50	**530132**	50	**530140**	25	**530150**	25	**530158**	25
1-1/8	---	-	---	-	**530118**	100	---	-	**530133**	50	**530141**	25	---	-	**530159**	25
1-1/4	---	-	---	-	**530119**	50	**530126**	50	**530134**	50	**530142**	25	**530151**	25	**530160**	25
1-3/8	---	-	---	-	---	-	---	-	---	-	**530143**	25	---	-	---	-
1-1/2	---	-	---	-	---	-	**530127**	50	**530135**	25	**530144**	25	**530152**	25	**530161**	25
1-5/8	---	-	---	-	---	-	---	-	---	-	---	-	---	-	**530162**	25
1-3/4	---	-	---	-	---	-	---	-	---	-	**530145**	25	**530153**	25	**530163**	25
2	---	-	---	-	---	-	---	-	**530136**	25	**530146**	25	**530154**	25	**530164**	10
2-1/4	---	-	---	-	---	-	---	-	---	-	**530147**	25	---	-	**530165**	10
2-1/2	---	-	---	-	---	-	---	-	---	-	---	-	---	-	**530166**	10
3	---	-	---	-	---	-	---	-	---	-	---	-	---	-	**530167**	10

COILED SPRING PIN SPECIFICATIONS

NORMAL SIZE STD. DUTY "D"		DIAMETER NOMINAL MAX.	DIAMETER NOMINAL MIN.	CHAMFER LBS. "B"	CHAMFER LBS. "C"	RECOMMENDED HOLE SIZE MAX.	RECOMMENDED HOLE SIZE MIN.	MATERIAL THICKNESS	NOMINAL DOUBLE SHEAR
1/16	.062	.072	.067	.059	.028	.065	.061	.005	330
5/64	.078	.088	.083	.075	.032	.081	.077	.006	550
3/32	.094	.105	.099	.091	.038	.097	.093	.007	775
1/8	.125	.138	.131	.121	.044	.129	.124	.010	1400
5/32	.156	.171	.163	.152	.048	.160	.155	.012	2200
3/16	.188	.205	.196	.182	.055	.192	.185	.016	3150
7/32	.219	.238	.228	.214	.065	.224	.217	.018	4200
1/4	.250	.271	.260	.243	.065	.256	.247	.021	5500
5/16	.312	.337	.324	.304	.080	.319	.308	.025	8700

	DIA. 5/16	
LENGTH	PART NUMBER	QTY
3/4	**530168**	25
7/8	**530169**	25
1	**530170**	25
1-1/8	---	-
1-1/4	**530171**	25
1-1/2	**530172**	10
1-5/8	---	-
1-3/4	**530173**	10
2	**530174**	10
2-1/4	**530175**	10
2-1/2	**530176**	10
3	**530177**	10

Sizes: 1/16" x 1/2" through 5/16" x 2"
Part No. 501531
560 pieces • 24 items • 12017 steel tray

530101	530109	530121	530131	530142	530160
530103	530112	530125	530132	530150	530170
530105	530115	530127	530138	530152	530172
530107	530117	530129	530140	530156	530174

Numbers in assortment

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TAPER and DOWEL PINS

TAPER PINS

Ideal for precision alignment of gears and sprockets to shafts and frequent disassembly of mated parts.

- **Precision machined from steel bar stock.**
- **1/4" taper per foot.**

	NO. 2/0				NO. 0				NO. 1				NO. 2			
LENGTH	PART NUMBER	DIA. "A"	DIA. "B"	QTY	PART NUMBER	DIA. "A"	DIA. "B"	QTY	PART NUMBER	DIA. "A"	DIA. "B"	QTY	PART NUMBER	DIA. "A"	DIA. "B"	QTY
3/4	**406105**	.141	.125	24	**406107**	.156	.140	24	**406109**	.172	.156	24	**406135**	.193	.177	24
1	---	--	--	-	**406103**	.156	.135	24	**406133**	.172	.151	24	**406136**	.193	.172	24
1-1/4	---	--	--	-	---	--	--	-	---	--	--	-	**406111**	.193	.167	24
1-1/2	**406106**	.141	.110	24	**406108**	.156	.125	24	**406110**	.172	.141	24	**406137**	.193	.162	24
2	---	--	--	-	**406104**	.156	.114	24	**406134**	.172	.130	24	**406112**	.193	.151	24

	NO. 3				NO. 4				NO. 5				NO. 6			
LENGTH	PART NUMBER	DIA. "A"	DIA. "B"	QTY	PART NUMBER	DIA. "A"	DIA. "B"	QTY	PART NUMBER	DIA. "A"	DIA. "B"	QTY	PART NUMBER	DIA. "A"	DIA. "B"	QTY
3/4	**406138**	.219	.203	24	---	--	--	-	---	--	--	-	---	--	--	-
1	**406139**	.219	.198	24	**406140**	.250	.229	12	**406142**	.289	.268	12	**406144**	.341	.320	12
1-1/4	---	--	--	-	---	--	--	-	---	--	--	-	---	--	--	-
1-1/2	**406113**	.219	.188	24	**406141**	.250	.219	12	**406143**	.289	.258	12	**406145**	.341	.310	12
2	**406114**	.219	.177	24	**406117**	.250	.208	12	**406120**	.289	.247	12	**406123**	.341	.299	12
2-1/2	**406115**	.219	.167	24	**406118**	.250	.198	12	**406121**	.289	.237	12	**406124**	.341	.289	12
3	**406116**	.219	.157	24	**406119**	.250	.188	12	---	--	--	-	**406125**	.341	.279	12
3-1/2	---	--	--	-	---	--	--	-	**406122**	.289	.216	12	**406126**	.341	.268	12

	NO. 7				NO. 8			
LENGTH	PART NUMBER	DIA. "A"	DIA. "B"	QTY	PART NUMBER	DIA. "A"	DIA. "B"	QTY
3/4	---	--	--	-	---	--	--	-
1	**406146**	.409	.388	12	---	--	--	-
1-1/4	---	--	--	-	---	--	--	-
1-1/2	**406147**	.409	.378	12	---	--	--	-
2	**406127**	.409	.367	12	**406130**	.492	.450	6
2-1/2	**406148**	.409	.357	6	---	--	--	-
3	**406128**	.409	.347	6	**406131**	.492	.430	6
3-1/2	---	--	--	-	---	--	--	-
4	**406129**	.409	.326	6	**406132**	.492	.409	6

Sizes: 2/0 x 3/4" through 3 x 2-1/2"
Part No. 406100 • 76 pieces • 11 items • 12027 plastic tray

406105	406107	406109	406111	406113	406115
406106	406108	406110	406112	406114	

Numbers in assortment

Sizes: 2/0 x 3/4" through 7 x 4"
Part No. 406101 • 94 pieces • 17 items • 12044 plastic tray

406105	406108	406111	406114	406117	406126
406106	406109	406112	406115	406119	406129
406107	406110	406113	406116	406122	

Numbers in assortment

DOWEL PINS

For fastening and aligning engine parts and fastening timing gears.

- **Alloy steel.**
- **Hardened to Rockwell C 58-62.**
- **Precision ground .0002" over basic diameter.**
- **Conforms to ANSI B18.8.2, MS 16555 and MS 16556 specifications.**

	NOMINAL DIA. 1/8 Double Shear Strength 3600 lbs.		NOMINAL DIA. 3/16 Double Shear Strength 8000 lbs.		NOMINAL DIA. 1/4 Double Shear Strength 14,400 lbs.		NOMINAL DIA. 5/16 Double Shear Strength 22,400 lbs.		NOMINAL DIA. 3/8 Double Shear Strength 32,400		NOMINAL DIA. 7/16 Double Shear Strength 44,000		NOMINAL DIA. 1/2 Double Shear Strength 57,400	
LENGTH	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY	PART NUMBER	QTY
3/8	**512301**	50	---	-	---	-	---	-	---	-	---	-	---	-
1/2	**512302**	50	**512309**	50	**512317**	25	**512327**	25	---	-	---	-	---	-
5/8	---	-	**512310**	50	**512318**	25	**512328**	25	**512338**	25	---	-	---	-
3/4	**512303**	50	**512311**	50	**512319**	25	**512329**	25	**512339**	25	---	-	**512356**	10
1	**512304**	50	**512312**	25	**512320**	25	**512330**	25	**512340**	25	**512348**	10	**512357**	10
1-1/4	**512305**	25	**512313**	25	**512321**	25	**512331**	25	**512341**	10	**512349**	10	**512358**	10
1-1/2	**512306**	25	**512314**	25	**512322**	25	**512332**	25	**512342**	10	**512350**	10	**512359**	10
1-3/4	**512307**	25	**512315**	25	**512323**	25	**512333**	25	**512343**	10	**512351**	10	**512360**	10
2	**512308**	25	**512316**	25	**512324**	25	**512334**	25	**512344**	10	**512352**	10	**512361**	10
2-1/4	---	-	---	-	**512325**	25	**512335**	25	**512345**	10	**512353**	10	**512362**	10
2-1/2	---	-	---	-	**512326**	25	**512336**	25	**512346**	10	**512354**	10	**512363**	10
3	---	-	---	-	---	-	**512337**	25	**512347**	10	**512355**	10	**512364**	10
3-1/2	---	-	---	-	---	-	---	-	---	-	---	-	**512365**	5
4	---	-	---	-	---	-	---	-	---	-	---	-	**512366**	5

Sizes: 1/8" x 3/8" through 3/8" x 2"
Part No. 501532
368 pieces • 24 items • 12017 steel tray

512301	512305	512312	512319	512324	512332
512302	512306	512314	512320	512329	512340
512303	512309	512316	512321	512330	512342
512304	512311	512317	512322	512331	512344

Numbers in assortment

WARNING:
- **Wear safety goggles.**
- **Check installation specs for proper use.**
- **Improper use may cause bodily injury and/or property damage.**

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RETAINING RINGS

INTERNAL RETAINING RINGS

PART NUMBER	HOUSING DIA. (H)	GROOVE DIA. (G)	THICKNESS (T)	QTY
52805	3/8	.397	.025	50
52806	7/16	.461	.025	50
52807	1/2	.530	.035	50
52808	9/16	.596	.035	50
52809	5/8	.665	.035	50
52857	11/16	.732	.035	50
52810	3/4	.796	.035	50
52858	13/16	.862	.042	50
52811	7/8	.931	.042	50
52812	15/16	1.000	.042	50
52813	1	1.066	.042	50
52814	1.023	1.091	.042	50
52859	1-1/16	1.130	.050	24
52860	1-1/8	1.197	.050	24

PART NUMBER	HOUSING DIA. (H)	GROOVE DIA. (G)	THICKNESS (T)	QTY
52861	1-1/4	1.330	.050	24
52862	1-5/16	1.396	.050	24
52863	1-3/8	1.461	.050	24
52864	1-7/16	1.528	.050	24
52865	1-1/2	1.594	.050	24
52866	1-9/16	1.658	.062	24
52867	1-5/8	1.725	.062	24
52868	1-3/4	1.858	.062	24
52869	1-7/8	1.989	.062	24
52870	2	2.122	.062	12
52871	2-1/4	2.382	.078	12
52872	2-3/8	2.517	.078	12
52873	2-1/2	2.648	.078	12

EXTERNAL RETAINING RINGS

PART NUMBER	SHAFT DIA. (S)	GROOVE DIA. (G)	THICKNESS (T)	QTY
52875	1/8	.117	.010	50
52876	3/16	.175	.015	50
52826	1/4	.230	.025	50
52827	5/16	.290	.025	50
52828	3/8	.352	.025	50
52829	7/16	.412	.025	50
52830	1/2	.468	.035	50
52877	9/16	.530	.035	50
52831	5/8	.588	.035	50
52832	11/16	.646	.042	50
52833	3/4	.704	.042	50
52834	25/32	.733	.042	50
52878	13/16	.762	.042	50
52835	7/8	.821	.042	50
52879	1	.940	.042	24

PART NUMBER	SHAFT DIA. (S)	GROOVE DIA. (G)	THICKNESS (T)	QTY
52880	1-1/16	.998	.050	24
52881	1-1/8	1.059	.050	24
52882	1-3/16	1.118	.050	24
52883	1-1/4	1.176	.050	24
52884	1-5/16	1.232	.050	24
52885	1-3/8	1.291	.050	24
52886	1-7/16	1.350	.050	24
52887	1-1/2	1.406	.050	24
52888	1-9/16	1.468	.062	24
52889	1-5/8	1.529	.062	24
52890	1-3/4	1.650	.062	24
52891	1-7/8	1.769	.062	24
52892	2	1.886	.062	12
52893	2-1/4	2.120	.078	12
52894	2-1/2	2.360	.078	12

E RINGS

PART NUMBER	SHAFT DIA. (S)	GROOVE DIA. (G)	THICKNESS (T)	QTY
52840	3/32	.074	.015	50
52841	1/8	.095	.015	50
52852	9/64	.105	.025	50
52842	5/32	.116	.025	50
52843	3/16	.147	.025	50
52844	7/32	.188	.025	50
52845	1/4	.210	.025	50
52846	5/16	.250	.025	50

PART NUMBER	SHAFT DIA. (S)	GROOVE DIA. (G)	THICKNESS (T)	QTY
52847	3/8	.303	.035	50
52848	7/16	.343	.035	50
52849	1/2	.396	.042	50
52850	9/16	.437	.042	50
52853	5/8	.485	.042	50
52854	3/4	.580	.050	50
52855	7/8	.675	.050	50
52856	1	.835	.050	50

Part No. 52801** • 364 pieces • 18 items • 12026 plastic tray

INTERNAL HOUSING DIA.			EXTERNAL SHAFT DIA.		
3/8”	9/16”	7/8”	1/4”	7/16”	11/16”
7/16”	5/8”	15/16”	5/16”	1/2”	3/4”
1/2”	3/4”	1”	3/8”	5/8”	7/8”

Numbers in assortment

Part No. 52851 • 680 pieces • 16 items • 12040 plastic tray

“E” RING SHAFT DIA.					
3/32”	5/32”	1/4”	7/16”	5/8”	1”
1/8”	3/16”	5/16”	1/2”	3/4”	
9/64”	7/32”	3/8”	9/16”	7/8”	

Numbers in assortment

Part No. 501075 • 330 pieces • 22 items • 12017 steel tray

INTERNAL HOUSING DIA.						
7/16”	5/8	13/16”	1-1/4”	1-7/16”	1-5/8”	2”
1/2”	11/16”	1-1/16”	1-5/16”	1-1/2”	1-3/4”	
9/16”	3/4”	1-1/8”	1-3/8”	1-9/16”	1-7/8”	

Numbers in assortment

Part No. 501076 • 410 pieces • 24 items • 12017 steel tray

EXTERNAL SHAFT DIA.							
1/8”	5/16”	1/2”	11/16”	1”	1-5/16”	1-1/2”	1-3/4’
3/16”	3/8”	9/16”	3/4”	1-3/16”	1-3/8”	1-9/16”	1-7/8”
1/4”	7/16”	5/8”	7/8”	1-1/4”	1-7/16”	1-5/8”	2”

Numbers in assortment

Part No. 501077 • 364 pieces • 24 items • 12017 steel tray

INTERNAL HOUSING DIA.				EXTERNAL SHAFT DIA.				
7/16”	5/8”	7/8”	1-1/4”	1/4’	7/16”	5/8”	1”	1-7/16”
1/2”	11/16”	15/16”		5/16”	1/2’	11/16”	1-3/16”	1-1/2”
9/16”	3/4”	1”		3/8”	9/16”	3/4”	1-1/4”	

Numbers in assortment

Part No. 501078* • 397 pieces • 20 items • 12056 steel tray

INTERNAL HOUSING DIA.				EXTERNAL SHAFT DIA.			
7/16”	5/8”	7/8”	1-1/4”	1/4”	1/2”	3/4”	1-7/16”
1/2”	11/16”	15/16”		5/16”	9/16”	1”	
9/16”	3/4”	1”		3/8”	5/8”	1-3/16”	

Numbers in assortment

NOTE:
For metric retaining rings, see section A16.

* Supplied with Two (2) tools - One (1) 52802 Int. /Ext. Straight pliers and One (1) 52803 Int./ Ext. 90° pliers.
** Supplied with One (1) tool - One (1) 52802 Int. /Ext. Straight pliers.

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RETAINING RINGS

INTERNAL RETAINING RINGS

EXTERNAL RETAINING RINGS

E RINGS

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KEYSTOCK and WOODRUFF KEYS

KEYSTOCK

Use to cut and fit your own machinery keys.

- **Machine cut corners are sharp and square.**
- **Finished oversize for snug fit.**
- **Parallel faces insure perfect fit.**
- **OUR keystock is engineered to eliminate backlash. Assures more efficient operation and longer life.**
- **Size marked on every bar.**
- **Tolerances: Sizes 1/8 to 3/4 +.003 to -.000, 7/8 to 1-1/2 +.004 to -.000**
- **Handy 12" length.**
- **High quality cold drawn steel.**

SQUARE Sizes: 3/16" through 1/2"
Part No. 506001
32 pieces • 6 items
sturdy, self service display box

506301	506303	506305
506302	506304	506306

Numbers in assortment

SQUARE Sizes: 3/16" through 1/2"
Part No. 501565
28 pieces • 6 items
12116 steel tray

506301	506303	506305
506302	506304	506306

Numbers in assortment

Protected by
LUSTERPLATE™
against rust & corrosion

Metric keystock available see section A16

Stainless Steel keystock available see section A13

SQUARE

SIZE	PART NUMBER	QTY
1/8x1/8	**506317**	2
3/32x3/32	**506323**	2
3/16x3/16	**506301**	4
1/4x1/4	**506302**	4
5/16x5/16	**506303**	4
3/8x3/8	**506304**	4
7/16x7/16	**506305**	4
1/2x1/2	**506306**	4
5/8x5/8	**506307**	4
3/4x3/4	**506308**	1
7/8x7/8	**506318**	1
1 x 1	**506319**	1
1-1/8x1-1/8	**506320**	1
1-1/4x1-1/4	**506321**	1
1-1/2x1-1/2	**506322**	1

RECTANGULAR

SIZE	PART NUMBER	QTY
1/8x3/8	**506309**	2
3/16x1/4	**506310**	4
1/4x5/16	**506311**	4
1/4x3/8	**506313**	2
1/4x1/2	**506314**	2
5/16x3/8	**506312**	2
3/8x1/2	**506315**	2
1/2x5/8	**506316**	2

WOODRUFF KEYS

Protected by
BLACK OXIDE FINISH™
against rust & corrosion

For repair on automobiles, trucks, trailers and general use.

- **Carbon SAE 1035 alloy steel.**
- **Burr free edges.**
- **Secures rotating parts by restricting radial movement.**
- **Used for holding pulleys and gears on transmission shafts.**
- **Conforms to SAE J 502 and ANSI B 17.2 specifications.**

SIZE WIDTH & DIAMETER	PART NUMBER	SAE NUMBER	USA STANDARD NUMBER	QTY
1/16 x 3/8	**53105**	211	203	50
1/16 x 1/2	**53106**	1	204	50
3/32 x 3/8	**53107**	212	303	50
3/32 x 1/2	**53108**	2	304	50
3/32 x 5/8	**53109**	4	305	50
1/8 x 3/8	**53110**	213	403	50
1/8 x 1/2	**53111**	3	404	50
1/8 x 5/8	**53112**	5	405	50
1/8 x 3/4	**53113**	7	406	50
5/32 x 5/8	**53114**	6	505	50
5/32 x 3/4	**53115**	8	506	50
5/32 x 7/8	**53116**	10	507	50
3/16 x 5/8	**53117**	61	605	50
3/16 x 3/4	**53118**	9	606	50
3/16 x 7/8	**53119**	11	607	50
3/16 x 1	**53133**	13	608	50
3/16 x 1-1/8	**53134**	16	609	50

SIZE WIDTH & DIAMETER	PART NUMBER	SAE NUMBER	USA STANDARD NUMBER	QTY
3/16 x 1-1/4	**53135**	19	610	10
7/32 x 7/8	**53120**	12	707	50
7/32 x 1	**53136**	14	708	50
7/32 x 1-1/8	**53137**	17	709	10
1/4 x 3/4	**53121**	91	806	50
1/4 x 7/8	**53122**	A	807	50
1/4 x 1	**53123**	15	808	50
1/4 x 1-1/8	**53124**	18	809	50
1/4 x 1-1/4	**53125**	21	810	50
1/4 x 1-3/8	**53138**	22	811	10
5/16 x 1	**53126**	B	1008	50
5/16 x 1-1/8	**53127**	C	1009	50
5/16 x 1-1/4	**53128**	D	1010	10
5/16 x 1-3/8	**53129**	23	1011	10
3/8 x 1	**53130**	152	1208	10
3/8 x 1-1/4	**53131**	E	1210	10
3/8 x 1-1/2	**53132**	G	1212	10

Sizes: 1/16" x 3/8" through 5/16" x 1-1/8"
Part No. 501024
276 pieces • 23 items • 12017 steel tray

53105	53109	53113	53117	53121	53125
53106	53110	53114	53118	53122	53126
53107	53111	53115	53119	53123	53127
53108	53112	53116	53120	53124	

Numbers in assortment

Sizes: 1/16" x 3/8' through 1/4" x 7/8"
Part No. 53101
179 pieces • 18 items • 12026 plastic tray

53105	53109	53113	53117	53121
53106	53110	53114	53118	53122
53107	53111	53115	53119	
53108	53112	53116	53120	

Numbers in assortment

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SHAFT COLLARS

TWO-PIECE HIGH STRENGTH CLAMP-TYPE COLLAR

Used by maintenance mechanics, engineers, machine builders and designers. For shaft protectors, bearing holders, thrust collars, arbor spacers and sprocket hubs.

I. D. BORE SIZE	PART NUMBER	O. D.	WIDTH	SET SCREW	QTY
1/8	**630350**	13/16	1/4	4-40	2
1/4	**630351**	13/16	1/4	4-40	2
5/16	**630352**	13/16	1/4	4-40	2
3/8	**630353**	1-1/16	5/16	6-32	2
1/2	**630354**	1-1/4	3/8	8-32	2
5/8	**630355**	1-1/2	13/32	10-32	2
3/4	**630356**	1-3/4	1/2	1/4-28	2
7/8	**630357**	1-7/8	1/2	1/4-28	2
1	**630358**	2	1/2	1/4-28	2
1-1/8	**630359**	2-1/8	1/2	1/4-28	2
1-1/4	**630360**	2-1/4	1/2	1/4-28	2
1-3/8	**630361**	2-3/8	1/2	1/4-28	2
1-7/16	**630362**	2-3/8	1/2	1/4-28	2
1-1/2	**630363**	2-1/2	1/2	1/4-28	2
1-5/8	**630364**	3	5/8	5/16-24	1
1-3/4	**630365**	3	5/8	5/16-24	1
1-7/8	**630366**	3-1/4	5/8	5/16-24	1
2	**630367**	3-1/4	5/8	5/16-24	1

- **Easily installed or removed - no need to disassemble machine.**
- **Won't mar expensive shafts.**
- **High strength, precision machined, steel construction.**
- **Unplated black finish.**
- **Made in USA.**

Part No. 501540
19 pieces • 16 items • 12050 steel tray

630350	**630353**	**630356**	**630359**	**630363**	**630367**
630351	**630354**	**630357**	**630360**	**630364**	
630352	**630355**	**630358**	**630361**	**630365**	

Numbers in assortment

SET SCREW TYPE COLLAR

I. D. BORE SIZE	PART NUMBER	O. D.	WIDTH	SET SCREW	QTY
1/8	**630375**	3/8	1/4	8-32	5
1/4	**630376**	1/2	9/32	10-32	5
5/16	**630377**	5/8	11/32	10-32	5
3/8	**630378**	3/4	3/8	1/4-20	5
7/16	**630379**	7/8	7/16	1/4-20	5
1/2	**630380**	1	7/16	1/4-20	5
9/16	**630381**	1	7/16	1/4-20	5
5/8	**630382**	1-1/8	1/2	5/16-18	5
11/16	**630383**	1-1/4	9/16	5/16-18	5
3/4	**630384**	1-1/4	9/16	5/16-18	5
7/8	**630385**	1-1/2	9/16	5/16-18	5
1	**630386**	1-5/8	5/8	5/16-18	5
1-1/8	**630387**	1-3/4	5/8	5/16-18	2
1-3/16	**630388**	2	11/16	3/8-16	2
1-1/4	**630389**	2	11/16	3/8-16	2
1-3/8	**630390**	2-1/8	3/4	3/8-16	2
1-1/2	**630391**	2-1/4	3/4	3/8-16	2
1-5/8	**630392**	2-1/2	13/16	3/8-16	2
1-3/4	**630393**	2-3/4	7/8	1/2-13	2
1-7/8	**630394**	2-3/4	7/8	1/2-13	2
2	**630395**	3	7/8	1/2-13	2

- **Bore size stamped on collar for easy identification.**
- **Manufactured from high quality steel for durability.**
- **Made in USA.**

Protected by **LUSTERPLATE™** against rust & corrosion

Part No. 501541
30 pieces • 16 items • 12050 steel tray

630375	**630380**	**630385**	**630389**	**630392**	**630395**
630376	**630382**	**630386**	**630390**	**630393**	
630378	**630384**	**630387**	**630391**	**630394**	

Numbers in assortment

UNIVERSAL COMPRESSION SPRINGS

- **All springs are made from music wire or hard drawn steel and are manufactured to government specifications.**

PART NUMBER	O.D. (INCHES)		FREE LENGTH (FL)	WIRE DIA. (D)	CALCULATED RATE (LBS./IN.)	QTY
214105	1/4	(.250)	9/16	.032	26.40	6
214106	19/64	(.297)	1-1/4	.040	19.74	6
214107	5/16	(.312)	1-5/8	.035	6.35	6
214108	3/8	(.375)	12	.062	6.14	2
214109	7/16	(.438)	2-1/8	.042	6.01	6
214110	31/64	(.484)	1-1/2	.054	17.62	6
214111	1/2	(.500)	1	.067	55.00	6
214112	1/2	(.500)	2-1/2	.062	21.10	6
214113	37/64	(.578)	2-3/8	.030	.56	6
214114	5/8	(.625)	12	.062	2.06	2
214115	5/8	(.625)	2-3/4	.072	17.60	2
214116	11/16	(.687)	4	.105	41.78	2
214117	7/8	(.875)	2-1/32	.122	75.70	2
214118	7/8	(.875)	3	.091	19.51	2
214119	15/16	(.938)	2	.080	17.50	2
214120	15/16	(.938)	10-1/2	.091	6.84	2
214121	1-1/32	(1.031)	2-31/64	.135	110.82	2

Part No. 214101
57 pieces • 17 items
12051 steel tray

214105	**214109**	**214113**	**214117**	**214121**
214106	**214110**	**214114**	**214118**	
214107	**214111**	**214115**	**214119**	
214108	**214112**	**214116**	**214120**	

Numbers in assortment

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SPRINGS

UNIVERSAL EXTENSION SPRINGS

- **All springs are made from music wire or hard drawn steel and are manufactured to government specifications.**

Part No. 214102
47 pieces • 17 items
12051 steel tray

214125	**214129**	**214133**	**214137**	**214141**
214126	**214130**	**214134**	**214138**	
214127	**214131**	**214135**	**214139**	
214128	**214132**	**214136**	**214140**	

Numbers in assortment

PART NUMBER	O.D. (INCHES)		FREE LENGTH (FL)	WIRE DIA. (D)	CALCULATED RATE (LBS./IN.)	QTY
214125	15/64	(.234)	1-3/32	.020	.61	6
214126	1/4	(.250)	4	.029	.72	6
214127	1/4	(.250)	6	.028	.40	6
214128	21/64	(.328)	5-7/8	.042	1.40	6
214129	11/32	(.343)	1-1/2	.037	3.36	6
214130	3/8	(.375)	3-1/2	.041	1.50	6
214131	7/16	(.437)	6	.062	4.61	6
214132	1/2	(.500)	1-5/8	.080	66.43	6
214133	1/2	(.500)	4-1/2	.062	4.10	6
214134	1/2	(.500)	9-3/8	.072	3.40	2
214135	9/16	(.562)	5	.072	5.51	4
214136	9/16	(.562)	6	.072	4.49	4
214137	5/8	(.625)	8-1/2	.072	2.14	2
214138	47/64	(.734)	3-7/8	.064	1.79	2
214139	3/4	(.750)	3-3/4	.092	12.15	2
214140	13/16	(.812)	8-1/2	.072	.92	2
214141	1	(1.000)	8-1/2	.120	7.42	2
214142	1/2	(.500)	4	.049	1.4	6

UNIVERSAL SMALL SPRINGS

Both compression and extension springs have hundreds of automotive and industrial uses.

- **Plated to prevent rust.**
- **Will take care of 90% of your small spring needs.**

Part No. 52901
200 pieces • 20 items
12027 plastic tray

52905	**52909**	**52913**	**52917**	**52921**
52906	**52910**	**52914**	**52918**	**52922**
52907	**52911**	**52915**	**52919**	**52923**
52908	**52912**	**52916**	**52920**	**52924**

Numbers in assortment

— COMPRESSION —

PART NUMBER	TYPE	O.D.	FREE LENGTH	QTY
52905	Comp.	9/32	1/2	25
52906	Comp.	1/4	13/32	25
52907	Comp.	7/32	11/16	25
52908	Comp.	3/8	5/8	25
52909	Comp.	3/8	3/4	25
52910	Comp.	7/32	1-1/2	25
52911	Comp.	23/64	1-3/8	25
52912	Ext.	13/64	13/16	25
52913	Ext.	1/4	7/8	25
52914	Ext.	7/32	1	25

— EXTENSION —

PART NUMBER	TYPE	O.D.	FREE LENGTH	QTY
52915	Ext.	3/16	1-3/4	25
52916	Ext.	5/16	1-1/8	25
52917	Ext.	5/16	1-1/4	25
52918	Comp.	9/32	3/4	25
52919	Ext.	9/32	1-1/2	25
52920	Ext.	11/32	1-7/16	25
52921	Ext.	.350	1-27/32	25
52922	Ext.	9/32	2-3/16	25
52923	Ext.	5/16	1-3/4	25
52924	Ext.	5/32	3-1/8	25

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Pop® RIVETS

OPEN END BLIND RIVETS

ALUMINUM RIVET / STEEL MANDREL

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
AD32BS	.094	.097-.100 #41	.031-.125	.240	.188	.032	125	175
AD34BS	(3/32)		.126-.250	.365	.188	.032		
AD41BS			.031-.060	.203	.250	.040		
AD42BS			.063-.125	.265	.250	.040		
AD43BS			.126-.187	.328	.250	.040		
AD44BS			.187-.250	.390	.250	.040		
AD45BS			.251-.312	.453	.250	.040		
AD46BS			.313-.375	.515	.250	.040		
AD48BS			.376-.500	.640	.250	.040		
AD410BS	.125	.129-1.33 #30	.501-.625	.765	.250	.040	210	325
AD42BSLF	(1/8)		.031-.125	.265	.375	.045		
AD43BSLF			.126-.187	.328	.375	.045		
AD44BSLF			.188-.250	.390	.375	.045		
AK42BS			.063-.125	.265	.220	.035		
AK43BS			.126-.187	.328	.220	.035		
AK44BS			.188-.250	.390	.220	.035		
AK45BS			.251-.312	.453	.220	.035		
AD52BS			.063-.125	.290	.312	.047		
AD53BS			.126-.187	.353	.312	.047		
AD54BS			.188-.250	.415	.312	.047		
AD56BS	.156	.160-.164 #20	.251-.375	.540	.312	.047	340	490
AD58BS	(5/32)		.376-.500	.665	.312	.047		
AD54BSLF			.126-.250	.415	.468	.056		
AK54BS			.188-.250	.415	.281	.045		
AK56BS			.251-.375	.540	.281	.045		
AD62BS			.063-.125	.315	.375	.055		
AD64BS			.126-.250	.440	.375	.055		
AD66BS			.251-.375	.565	.375	.055		
AD68BS			.376-.500	.690	.375	.055		
AD610BS			.501-.625	.815	.375	.055		
AD612BS			.626.750	.940	.375	.055		
AD614BS			.751-.875	1.065	.375	.055		
AD616BS	.187	.192-.196 #11	.876-1.000	1.190	.375	.055	445	720
AD64BSLF	(3/16)		.126-.250	.440	.625	.083		
AD66BSLF			.251-.375	.565	.625	.083		
AD68BSLF			.376-.500	.690	.625	.083		
AD610BSLF			.501-.625	.815	.625	.083		
AD612BSLF			.626-.750	.940	.625	.093		
AD616BSLF			.751-1.000	1.190	.625	.093		
AD64BS			.126-.250	.440	.348	.055		
AD84BS			.063-.250	.490	.500	.073		
AD86BS			.251-.375	.615	.500	.073		
AD88BS	.250	.257-.261 #F	.376-.500	.740	.500	.073	890	1200
AD810BS	(1/4)		.501-.625	.865	.500	.073		
AD812BS			.626-.750	.990	.500	.073		
AD816BS			.751-1.000	1.240	.500	.073		

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RIVETS

Pop® RIVETS

OPEN END BLIND RIVETS (cont.)
ALUMINUM RIVET/ ALUMINUM MANDREL

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
AD32ABS	.094	.097-.100 #41	.031-.125	.240	.188	.032	85	135
AD34ABS	(3/32)		.126-.250	.365	.188	.032		
AD36ABS			.251-.375	.490	.188	.032		
AD41ABS			.031-.062	.203	.250	.040		
AD42ABS			.063-.125	.265	.250	.040		
AD43ABS			.126-.187	.328	.250	.040		
AD44ABS			.187-.250	.390	.250	.040		
AD45ABS	.125	.129-1.33 #30	.251-.312	.453	.250	.040	155	235
AD46ABS	(1/8)		.313-.375	.515	.250	.040		
AD48ABS			.376-.500	.640	.250	.040		
AD410ABS			.501-.625	.765	.250	.040		
AD42ABSLF			.031-.125	.265	.375	.045		
AD44ABSLF			.188-.250	.390	.375	.045		
AK42ABS			.063-.125	.265	.220	.035		
AD52ABS			.063-.125	.290	.312	.047		
AD53ABS			.126-.187	.353	.312	.047		
AD54ABS	.156	.160-.164 #20	.188-.250	.415	.312	.047	225	350
AD56ABS	(5/32)		.251-.375	.540	.312	.047		
AD58ABS			.376-.500	.665	.312	.047		
AD54ABSLF			.126-.250	.415	.468	.056		
AD62ABS			.063-.125	.315	.375	.055		
AD64ABS			.126-.250	.440	.375	.055		
AD66ABS			.251-.375	.565	.375	.055		
AD68ABS			.376-.500	.690	.375	.055		
AD610ABS			.501-.625	.815	.375	.055		
AD612ABS	.187	.192-.196 #11	.626.750	.940	.375	.055	315	500
AD616ABS	(3/16)		.876-1.000	1.190	.375	.055		
AD64ABSLF			.126-.250	.440	.625	.083		
AD66ABSLF			.251-.375	.565	.625	.083		
AD68ABSLF			.376-.500	.690	.625	.083		
AD610ABSLF			.501-.625	.815	.625	.083		
AD612ABSLF			.626-.750	.940	.625	.093		
AD84ABS	.250		.063-.250	.490	.500	.073		
AD86ABS	(1/4)		.251-.375	.615	.500	.073	600	750
AD812ABS			.626-.750	.990	.500	.073		

STEEL RIVET / STEEL MANDREL

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
SD32BS	.094	.097-.100 #41	.031-.125	.240	.188	.032	150	205
SD34BS	(3/32)		.126-.250	.365	.188	.032		
SD41BS			.031-.062	.203	.250	.040		
SD42BS			.063-.125	.265	.250	.040		
SD43BS			.126-.187	.328	.250	.040		
SD44BS			.187-.250	.390	.250	.040		
SD45BS	.125	.129-1.33 #30	.251-.312	.453	.250	.040	295	425
SD46BS	(1/8)		.313-.375	.515	.250	.040		
SD48BS			.376-.500	.640	.250	.040		
SD42BSLF			.031-.125	.265	.375	.045		
SD44BSLF			.188-.250	.390	.375	.045		
SK42BS			.063-.125	.265	.220	.035		
SK44BS			.126-.250	.390	.220	.035		

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Pop® RIVETS

OPEN END BLIND RIVETS (cont.)

STEEL RIVET / STEEL MANDREL

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
SD52BS			.063-.125	.290	.312	.047		
SD53BS			.126-.187	.353	.312	.047		
SD54BS	.156	.160-.164 #20	.187-.250	.415	.312	.047	410	570
SD56BS	(5/32)		.251-.375	.540	.312	.047		
SD54BSLF			.126-.250	.415	.468	.056		
SD62BS			.063-.125	.315	.375	.055		
SD64BS			.126-.250	.440	.375	.055		
SD66BS			.251-.375	.565	.375	.055		
SD68BS			.376-.500	.690	.375	.055		
SD610BS			.501-.625	.815	.375	.055		
SD612BS	.187	.129-.196 #11	.626-.750	.940	.375	.055	590	815
SD616BS	(3/16)		.876-1.000	1.190	.375	.055		
SD64BSLF			.126-.250	.440	.625	.083		
SD66BSLF			.251-.375	.565	.625	.083		
SD68BSLF			.376-.500	.690	.625	.083		
SD610BSLF			.501-.625	.815	.625	.083		
SD612BSLF			.626-.750	.940	.625	.093		
SD84BS			.063-.250	.490	.500	.073		
SD86BS			.251-.375	.615	.500	.073		
SD88BS	.250	.257-.261 #F	.376-.500	.740	.500	.073	1245	1505
SD810BS	(1/4)		.501-.625	.865	.500	.073		
SD812BS			.626-.750	.990	.500	.073		
SD816BS			.751-1.000	1.240	.500	.073		

STAINLESS STEEL RIVET / STAINLESS STEEL MANDREL*

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
SSD42SSBS			.063-.125	.265	.250	.040		
SSD43SSBS			.126-.187	.328	.250	.040		
SSD44SSBS			.187-.250	.390	.250	.040		
SSD46SSBS	.125	.129-1.33 #30	.313-.375	.515	.250	.040	550	700
SSD48SSBS	(1/8)		.376-.500	.640	.250	.040		
SSD42SSBSLF			.031-.125	.265	.375	.045		
SSD43SSBSLF			.126-.187	.328	.375	.045		
SSD44SSBSLF			.188-.250	.390	.375	.045		
SSD52SSBS			.063-.125	.290	.312	.047		
SSD54SSBS	.156	.160-.164 #20	.126-.250	.415	.312	.047	900	1300
SSD56SSBS	(5/32)		.251-.375	.540	.312	.047		
SSD62SSBS			.063-.125	.315	.375	.055		
SSD64SSBS	.187	.192-1.96 #11	.126-.250	.440	.375	.055	1000	1375
SSD66SSBS	(3/16)		.251-.375	.565	.375	.055		
SSD68SSBS			.376-.500	.690	.375	.055		

*Also available with Stainless Steel Rivet/Carbon Steel Mandrel

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RIVETS

Pop® RIVETS

CLOSED END SEALING BLIND RIVETS

ALUMINUM RIVET/ STEEL MANDREL

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
AD41H			.032-.062	.252	.236	.051		
AD42H			.063-.125	.316	.236	.051		
AD43H			.126-.187	.377	.236	.051		
AD44H			.188-.250	.440	.236	.051		
AD45H			.251-.312	.502	.236	.051		
AD46H			.313-.375	.565	.236	.051		
AD48H	.125	.129-1.33 #30	.376-.500	.690	.236	.051	305	385
AK41H	(1/8)		.031-.062	.297	.233	.050		
AK42H			.063-.125	.361	.233	.050		
AK43H			.126-.187	.422	.233	.050		
AK44H			.188-.250	.486	.233	.050		
AK45H			.251-.312	.548	.233	.050		
AD52H			.063-.125	.330	.312	.066		
AD53H	.156	.160-.164 #20	.126-.187	.392	.312	.066	430	605
AD55H	(5/32)		.188-.312	.517	.312	.066		
AK53H			.126-.187	.452	.312	.066		
AD62H			.063-.125	.315	.375	.055		
AD64H			.126-.250	.440	.375	.055		
AD66H	.187	.192-.196 #11	.251-.375	.565	.375	.055	575	840
AD68H	(3/16)		.376-.500	.690	.375	.055		
AK64H			.126-.250	.540	.375	.075		
AK66H			.251-.375	.665	.375	.075		
AD84H	.250	.257-.261 #F	.063-.250	.490	.500	.073	900	110
AD86H	(1/4)		.251-.375	.615	.500	.073		

ALUMINUM RIVET/ ALUMINUM MANDREL

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
AD42AH			.063-.125	.316	.236	.051		
AD43AH	.125	.129-1.33 #30	.126-.187	.377	.236	.051	105	150
AD44AH	(1/8)		.188-.250	.440	.236	.051		
AD54AH	.156(5/32)	.160-.164 #20	.063-.250	.445	.312	.066	155	240
AD62AH			.063-.125	.345	.375	.081		
AD64AH	.187	.192-.196 #11	.063-.125	.470	.375	.081	220	310
AD66AH	(3/16)		.251-.375	.595	.375	.081		
AD68AH			.376-.500	.720	.375	.081		

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Pop® RIVETS

CLOSED END SEALING BLIND RIVETS (cont.)

ALUMINUM RIVET/ STAINLESS STEEL MANDREL

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
AD64SSH	.187	.092-.196 #11	.126-.250	.470	.375	.081	220	130
AD66SSH	(3/16)		.251-.375	.595	.375	.081		

Pop® T-RIVETS

STRUCTURAL TRIFURCATING RIVETS

Product Features & Benefits

1. High shear and tensile strength is provided by the hardened steel mandrel.
2. High clamp up–T-rivets will draw sheets firmly together even when separated by as much as 3/16".
3. Mechanically locked mandrel–will withstand severe vibration without loss of the mandrel's plug section.

ALUMINUM RIVET/ HARDENED STEEL MANDREL

Part No.	'D' Body Diam	Hole Size & Drill No.	Grip Range Inches	'L' Length	'H' Head Diam.	'E' Head Height	Shear Strength (lb)	Tensile Strength (lb)
AD6140TFBS			.032-.140	.447	.390	.103		
AD6187TFBS			.141-.187	.510	.390	.103		
AD6250TFBS	.187	.192-.196 #11	.188-.250	.572	.390	.103	600	600
AD6312TFBS	(3/16)		.251-.312	.635	.390	.103		
AD6375TFBS			.313-.375	.697	.390	.103		
AD6437TFBS			.376-.375	.760	.390	.103		
AD6519TFBS			.438-.519	.822	.390	.103		
AD8140TFBS			.032-.140	.500	.510	.126		
AD8187TFBS			.141-.187	.552	.510	.126		
AD8250TFBS			.188-.250	.615	.510	.126		
AD8312TFBS	.250	.257-.261 #F	.251-.312	.677	.510	.126	1100	1100
AD8375TFBS	(1/4)		.313-.375	.740	.510	.126		
AD8437TFBS			.376-.437	.802	.510	.126		
AD8519TFBS			.438-.519	.865	.510	.126		
AD8620TFBS			.520-.620	.937	.510	.126		

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RIVETS

MULTI-GRIP RIVETS

Product Features & Benefits

1. Positively retained stem ensures weather resistance.
2. Complete hole fill assures vibration proof assembly – even oversized or misaligned holes.
3. One multi-grip length can do the work of four sizes of conventional rivets.
4. Consistently smooth, rounded tail eliminates hazardous sharp edges.
5. Superior pullup eliminates sheet gap.

ALUMINUM with PLATED STEEL MANDREL

Part No.	Rivet Dia. Nom.	'D' Diameter	Grip Range	'L' Length	'H' Head Dia.	'E' Head Height	Drill Size	Shear	Tensile	Box Qty
1691-0410	Lo-profile	1/8	.031-.187	.380	.260	.040	#30	165	230	500
1691-0414	Lo-profile	1/8	.125-312	.505	.260	.040	#30	165	230	500
1691-0512	Lo-profile	5/32	.046-.250	.455	.319	.050	#19	255	375	500
1691-0613	Lo-profile	3/16	.064-.250	.510	.394	.060	#8	340	505	500
1691-0619	Lo-profile	3/16	.187-.437	.695	.394	.060	#8	340	505	500
1691-0621	Lo-profile	3/16	.250-.500	750	.394	.060	#8	340	505	500
1691-0631	Lo-profile	3/16	.500-.781	1.06	.334	.060	#8	340	505	500
1692-0410	Lg-flange	1/8	.031-.187	.380	.335	.044	#30	165	230	500
1692-0514	Lg-flange	5/32	.125-.312	.515	.385	.057	#19	255	375	500
1692-0613	Lg-flange	3/16	.062-.250	.510	.635	.075	#8	340	505	500
1692-0621	Lg-flange	3/16	.250-.500	.750	.635	.075	#8	340	505	500
1692-0631	Lg-flange	3/16	.500-.781	1.06	.635	.075	#8	340	505	500
1610-3722	Braizer	3/16	.062-.250	.510	.484	.098	#8	340	505	500
1610-3716	Braizer	3/16	.187-.437	.695	.484	.098	#8	340	505	500
1682-0412	Countersunk	1/8	.093-.250	.440	.215	.030	#30	165	230	500
1682-0414	Countersunk	1/8	.155-.312	.505	.215	.030	#30	165	230	500
1682-0514	Countersunk	5/32	.109-.312	.520	.155	.032	#19	255	375	500
1682-0615	Countersunk	3/16	.125-.312	.565	.349	.051	#8	340	505	500
1682-0621	Countersunk	3/16	.250-.500	.755	.349	.051	#8	240	505	500

ALL STEEL

Part No.	Rivet Dia. Nom.	'D' Diameter	Grip Range	'L' Length	'H' Head Dia.	'E' Head Height	Drill Size	Shear	Tensile	Box Qty
1624-0411	Lo-profile	1/8	.044-.156	.425	.293	.036	#30	340	385	500
1624-0514	Lo-profile	5/32	.056-.196	.515	.330	.055	#20	440	530	500
1624-0612	Lo-profile	3/16	.047-.187	.521	.395	.073	#10	810	750	500
1624-0616	Lo-profile	3/16	.156-.250	.638	.395	.073	#10	1025	780	500

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RIVETS

BULBEX™ RIVETS

FOR THE SOFT-THIN-BRITTLE MATERIALS
ALUMINUM RIVET/ ALUMINUM MANDREL

Product Features & Benefits

1. Large tail formation.
2. Multi-grip – reduces inventory.
3. Non-critical hole size.
4. Excellent sheet takeup.
5. Positively locked stem.
6. Head accepts color snap-on caps.

Part No.	Head Style	'A' Diameter	Grip Range	'M' Length	'B' Head Diameter	'D' Head Height	Drill Size	Shear (lb)	Tensile (lb)
BF01-0516	Lo-profile	5/32	.040-.188	.620	.321	.060	11/64	135	225
BF01-0523	Lo-profile	5/32	.040-.295	.840	.321	.060	11/64	135	225
BF01-0619	Lo-profile	3/16	.040-.157	.720	.396	.080	13/64	175	240
BF01-0625	Lo-profile	3/16	.137-.354	.930	.396	.080	13/64	175	240

DOOR RIVETS

SPECIAL TRUSS HEAD – SEMI-TUBULAR
STEEL–ZINC PLATED

Part No.	Size	Head Diameter	Head Height
995-832	1/4 x 1-1/8	.750	.100
995-834	1/4 x 1-3/16	.750	.100
995-836	1/4 x 1-1/4	.750	.100

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RIVETS

OLYMPIC BULB-TITE RIVETS

RV6606
Dome Head (Recessed Crown)

RV6607
Shaveable Brazier Head

Product Features & Benefits

High Strength High Clamping Multi-Grip
Weather Tight (when used with correct nosetip)
Flush Mandrel Break-off (when used with correct nosetip)
Tough Applications (curved surfaces - oversized & elongated holes)

ALUMINUM RIVET / ALUMINUM MANDREL

Head Style	Rivet Dia. Nom.	Part Number	Grip Range	Hole Size Drill No.	Dimensions (inches) D	B	A	F	Typ. Strength (lbs) Shear	Tensile
Dome Head Recessed Crown	3/16"	RV6606-0603W	.505-.187	.209-.221	.205	.094	.469	.872	740	460
		RV6606-0604W	.062-.250	#4				.935		
		RV6606-0606W	.187-.375					1.060		
		RV6606-0608W	.312-.500					1.185		
		RV6606-0610W	.437-.625					1.310		
		RV6606-0612W	.563-.750					1.435		
	1/4"	RV6606-0804W	.040-.250	.250-.263	.246	.111	.543	1.005	1100	675
		RV6606-0806W	.125-.375	1/4				1.130		
		RV6606-0808W	.250-.500					1.255		
		RV6606-0810W	.375-.625					1.380		
Shaveable Brazier Head	3/16"	RV6607-0606W	.050-.375	.209-.221	.205	.094	.469	1.060	740	460
		RV6607-0608W	.050-.500	#4	.205	.094	.469	1.185	740	460
	1/4"	RV6607-0808W	.050-.500	.250-.263 1/4	.246	.120	.469	1.235	1100	675

STEEL RIVET / STEEL MANDREL

Dome Head Recessed Crown	1/4"	RV6676-0804W	.040-.250	.250-.263	.246	.111	.542	1.005	1850	1025
		RV6676-0806W	.125-.375	1/4						
		RV6676-0808W	.250-.500							
		RV6676-0810W	.375-.625							

NOTE: To order without optional washer, please remove the **"W"** at the end of the part number.

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RIVETS

SOUTHCO ALUMINUM DRIVE RIVETS

USE THESE COLUMNS FIRST TO LOCATE YOUR CORRECT GRIP. Grip equals total thickness of ALL sheets fastened together.

3/16" DIAMETER

1/4" DIAMETER

Grip Range Min.	Grip Range Nom.	Grip Range Max.	L.	Part Number Universal Head	Part Number 100° CSK Head	Part Number Full Brazier Head	L.	Part Number Universal Head	Part Number 100° CSK Head	Part Number Full Brazier Head
.047	3/32	.140	1/4	SO-38-106-02-16		SO-38-206-02-16	1/4	SO-38-108-02-16		SO-38-208-02-16
.078	1/8	.171	9/32	SO-38-106-04-16		SO-38-206-04-16	9/32	SO-38-108-04-16		SO-38-208-04-16
.140	3/16	.234	11/32	SO-38-106-06-16	SO-38-506-06-16	SO-38-206-06-16	11/32	SO-38-108-06-16	SO-38-508-06-16	SO-38-208-06-16
.203	1/4	.296	13/32	SO-38-106-08-16	SO-38-506-08-16	SO-38-206-08-16	13/32	SO-38-108-08-16	SO-38-508-08-16	SO-38-208-08-16
.265	5/16	.359	15/32	SO-38-106-10-16	SO-38-506-10-16	SO-38-206-10-16	15/32	SO-38-108-10-16	SO-38-508-10-16	SO-38-208-10-16
.328	3/8	.421	17/32	SO-38-106-12-16	SO-38-506-12-16	SO-38-206-12-16	17/32	SO-38-108-12-16	SO-38-508-12-16	SO-38-208-12-16
.390	7/16	.484	19/32	SO-38-106-14-16	SO-38-506-14-16	SO-38-206-14-16	19/32	SO-38-108-14-16	SO-38-508-14-16	SO-38-208-14-16
.453	1/2	.546	21/32	SO-38-106-16-16	SO-38-506-16-16	SO-38-206-16-16	21/32	SO-38-108-16-16	SO-38-508-16-16	SO-38-208-16-16
.515	9/16	.609	23/32	SO-38-106-18-16	SO-38-506-18-16	SO-38-206-18-16	23/32	SO-38-108-18-16	SO-38-508-18-16	SO-38-208-18-16
.578	5/8	.671	25/32	SO-38-106-20-16	SO-38-506-20-16	SO-38-206-20-16	25/32	SO-38-108-20-16	SO-38-508-20-16	SO-38-208-20-16
.640	11/16	.734	27/32	SO-38-106-22-16	SO-38-506-22-16	SO-38-206-22-16	27/32	SO-38-108-22-16	SO-38-508-22-16	SO-38-208-22-16
.703	3/4	.796	29/32	SO-38-106-24-16	SO-38-506-24-16	SO-38-206-24-16	29/32	SO-38-108-24-16	SO-38-508-24-16	SO-38-208-24-16
.765	13/16	.859	31/32	SO-38-106-26-16	SO-38-506-26-16	SO-38-206-26-16	31/32	SO-38-108-26-16	SO-38-508-26-16	SO-38-208-26-16
.828	7/8	.921	1 1/32	SO-38-106-28-16	SO-38-506-28-16	SO-38-206-28-16	1 1/32	SO-38-108-28-16	SO-38-508-28-16	SO-38-208-28-16
.890	13/16	.984	1 3/32	SO-38-106-30-16	SO-38-506-30-16	SO-38-206-30-16	1 3/32	SO-38-108-30-16	SO-38-508-30-16	SO-38-208-30-16
.953	1	1.047	1 5/32	SO-38-106-32-16	SO-38-506-32-16	SO-38-206-32-16	1 5/32	SO-38-108-32-16	SO-38-508-32-16	SO-38-208-32-16

SOUTHCO 3G LINER RIVETS

MATERIAL
Aluminum rivet with non-corrosive pin

9 SIZES REPLACES 30

COVERS ALL GRIPS THROUGH 15/16"

Grip Range	Part Number	L.
.076-.175	SO-10-11-706-13	9/32
.176-275	SO-10-12-706-13	25/64
.276-.375	SO-10-13-706-13	31/64
.376-.475	SO-10-14-706-13	37/64
.476-.575	SO-10-15-706-13	11/16
.576-.675	SO-10-16-706-13	25/32
.676-.775	SO-10-17-706-13	7/8
.776-.875	SO-10-18-706-13	63/64
.876-.975	SO-10-19-706-13	1 5/64

TO INSTALL–Use 3/16" dia. drill...insert rivet...hit the pin

SOUTHCO T.I.R. CONTAINER RIVETS

DRIVE WITH A SECURITY LOCK

MATERIAL
Aluminum rivet with non-corrosive pin

Grip Range	Part Number .468 Dia. Head	Part Number .615 Dia. Head	L.
.076-.175	SO-10-99-106-11	SO-10-99-108-11	9/32
.176-.275	SO-10-99-106-12	SO-10-99-108-12	25/64
.276-.375	SO-10-99-106-13	SO-10-99-108-13	31/64
.376-.475	SO-10-99-106-14	SO-10-99-108-14	37/64
.476-.575	SO-10-99-106-15	SO-10-99-108-15	11/16
.576-.675	SO-10-99-106-16	SO-10-99-108-16	25/32
.676-.775	SO-10-99-106-17	SO-10-99-108-17	7/8
.776-.875	SO-10-99-106-18	SO-10-99-108-18	63/64
.876-.975	SO-10-99-106-19	SO-10-99-108-19	1 5/64

TO INSTALL–Use 3/16" dia. drill...insert rivet...hit the pin

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RIVETS

ALUMINUM RIVETS*

STANDARD BRAZIER HEAD

Part Number Alloy 1100 F	Part Number Alloy 2117T4	Nominal Diameter	Length	Approx. Pcs. Per Pound
701-101	701-112	3/16	1/4	640
701-102	701-113	3/16	5/16	576
701-103	701-114	3/16	3/8	523
701-104	701-115	3/16	7/16	480
701-105	701-116	3/16	1/2	443
701-105X	701-116X	3/16	9/16	411
701-106	701-117	3/16	5/8	384
701-107	701-118	3/16	3/4	338
701-108	701-119	3/16	7/8	303
701-109	701-120	3/16	1	274
704-101	704-112	1/4	1/4	305
704-102	704-113	1/4	5/16	279
704-103	704-114	1/4	3/8	257
704-104	704-115	1/4	7/16	238
704-105	704-116	1/4	1/2	222
704-105X	704-116X	1/4	9/16	207
704-106	704-117	1/4	5/8	195
704-107	704-118	1/4	3/4	174
704-108	704-119	1/4	7/8	157
704-109	704-120	1/4	1	143

PACKAGED 1 POUND PER BOX.

Dimensions

A	B	C	D
3/16	0.467	0.094	0.339
1/4	0.625	0.125	0.454

NOTE: Rivets made with the softer alloy (1100F) are marked with a “2” on the bottom. Hard alloy rivets (2117T4) have a dimple on their head.

MODIFIED BRAZIER HEAD

Part Number Alloy 1100 F	Part Number Alloy 2117T4	Nominal Diameter	Length	Approx. Pcs. Per Pound
702-101	702-112	3/16	1/4	840
702-102	702-113	3/16	5/16	735
702-103	702-114	3/16	3/8	649
702-104	702-115	3/16	7/16	584
702-105	702-116	3/16	1/2	531
702-105X	702-116X	3/16	9/16	485
702-106	702-117	3/16	5/8	448
702-107	702-118	3/16	3/4	387
702-108	702-119	3/16	7/8	341
702-109	702-120	3/16	1	305
705-101	705-112	1/4	1/4	478
705-102	705-113	1/4	5/16	417
705-103	705-114	1/4	3/8	369
705-104	705-115	1/4	7/16	331
705-105	705-116	1/4	1/2	300
705-105X	705-116X	1/4	9/16	274
705-106	705-117	1/4	5/8	253
705-107	705-118	1/4	3/4	318
705-108	705-119	1/4	7/8	192
705-109	705-120	1/4	1	172

PACKAGED 1 POUND PER BOX.

Dimensions

A	B	C	D
3/16	0.390	0.078	0.283
1/4	0.468	0.094	0.339

* SELECT SIZES NOW AVAILABLE IN STAINLESS STEEL.

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RIVETS

NYLON TAP-IT

HAMMER DRIVE NYLON FASTENER

BODY (SHELL) MATERIAL IS NYLON COPOLYMER TYPE 6 RESIN. DRIVE PINS (STEEL) C1008, ZINC PLATED TO ASTM A-164 AND CLEAR CHROMATE DIPPED, HEAT TREATED

			Grip Range	
Part No.	Diameter	Length	Min.	Max.
706-102	3/16"	3/4"	1/16"	1/4"
706-104	3/16"	1"	1/4	5/8"
706-118	1/4"	3/4"	3/16"	5/8"
706-120	1/4"	1"	3/16"	7/8"
706-122	1/4"	1-1/2"	3/8"	1-1/4"
706-124	1/4"	2"	7/8"	1-3/4"
706-128	1/4"	3"	1-3/4"	2-1/2"

UNI-TAP

THE LOWEST THERMAL CONDUCTIVE FASTENER TODAY...

For reefers, UNI-TAP's non-conductive nylon confers a unique, major advantage over conventional metal fasteners (which draw severe winter cold into a trailer interior, causing condensation and icing) or those with a nylon pin (which are considerably more expensive as well as being difficult to drive).
UNI-TAP's other features – strength, ease of installation and low cost – make it equally welcome for use in dry vans.

EXCEPTIONAL STRENGTH!

UNI-TAP is made of tough Dupont nylon. This allows for a high sheer and tensile strength. It has the impact resistance to take hammer drive installation and the strength to hold firmly in place.

Product Features & Benefits

1. Material is FDA approved
2. Non-conductive and resists most chemicals.
3. Low in-place cost.
4. 3 lengths available
5. Tamper and vibration resistant.

			Grip Range	
Part No.	Diameter	Length	Min.	Max.
706-150	1/4"	1"	3/16"	1/2"
706-152	1/4"	1-5/8"	3/8"	1-1/8"
706-154	1/4"	2-5/8"	7/8"	1-5/8"

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RIVETS

MAGNA-LOK®

BLIND FASTENING SYSTEM

Product Features & Benefits

1. Circle lock ensures maximum strength and resistance to vibration, virtually eliminating pin pushout.
2. Flush pin break means there's no need to grind or file a Magna-Lok fastener.
3. Magna-Lok fasteners have a wide grip range, which means less inventory and a reduced risk of selecting the wrong size fastener.
4. The sleeve portion of the Magna-Lok fastener expands during installation, tightly filling the hole, which creates a weather resistant joint.

Typical Installed Values in Normal Grip (lbs.)

		Aluminum	Steel	Stainless Steel
3/16	Shear	600	1300	1300
	Tensile	500	1200	950
	Pin Retention	50	150	100
1/4	Shear	1300	2500	2350
	Tensile	890	2200	1800
	Pin Retention	100	300	200
3/8	Shear	2950	5600	NA
	Tensile	1900	4000	NA
	Pin Retention	250	650	NA

Unique solid-circle lock ensures maximum strength and resistance to vibration.
It is designed to eliminate pin pushout. It forms a mechanical lock, permanently locking the pin and sleeve together.

Material and Finish

	Sleeve	Pin	Sleeve Finish	Pin Finish
Steel	Low Carbon Steel	Medium Carbon Steel	Zinc Plated Clear Chromate	Zinc Plated Gold Chromate
Aluminum	5056	7075	Clear Chromate	Gold Chromate
Stainless	302	305/304	Passivated	Dry Lubricated

Installation Tooling

	Installation Tool	Nose Assembly			Type	Use
3/16	2025	99-3300			Pneudraulic	Maintenance & Repair
	202	99-3303	99-3316-68		Pneudraulic	Production or Maintenance & Repair
	2015	125154 (insert, included with tool)			Pneudraulic	Production or Maintenance & Repair
	212	99-3300	99-3303	99-3316-68	Pneudraulic	Production
	AK180-1	120982			Pneudraulic	Maintenance & Repair
	2480	99-3300	99-3303	99-3316-68	Hydraulic	Production
1/4	2025	99-3301			Pneudraulic	Maintenance & Repair
	202	99-3301	99-3316-68		Pneudraulic	Production or Maintenance & Repair
	212	99-3301	99-3305	99-3316-68	Pneudraulic	Production
	AK180-1	202142			Pneudraulic	Maintenance & Repair
	2480	99-3301	99-3305	99-3316-68	Hydraulic	Production
3/8	246	99-3318			Pneudraulic	Production
	2580	99-3318			Hydraulic	Production

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MAGNA-LOK®

BLIND FASTENING SYSTEM

PROTRUDING HEAD

Diameter	Steel	Aluminum	Stainless	Grip Range	Hole Size	A	B	C	D	E	F
3/16	MGLP-R6-4	MGLP-B6-4	MGLP-U6-4	.062-.270	.191-.201	.188	.358	.085	.415	.675	1.00
	MGLP-R6-7	MGLP-B6-7	MGLP-U6-7*	.214-.437	.191-.201	.188	.358	.085	.572	.825	1.00
	MGLP-R6-E	MGLP-B6-E		.062-.437	.191-.201	.188	.358	.085	.572	.950	1.00
1/4	MGLP-R8-6	MGLP-B8-6	MGLP-U8-6	.080-.375	.261-.272	.253	.525	.117	.560	.970	1.00
	MGLP-R8-10	MGLP-B8-10	MGLP-U8-10*	.350-.625	.261-.272	.253	.525	.117	.810	1.220	1.00
	MGLP-R8-E	MGLP-B8-E		.080-.625	.261-.272	.253	.525	.117	.810	1.405	1.00
3/8	MGLP-R12-12	MGLP-B12-12		.120-.560	.392-.408	.386	.787	.175	.810	1.650	1.545

TRUSS HEAD

Diameter	Steel	Aluminum	Grip Range	Hole Size	A	B	C	D	E	F
3/16	MGLT-R6-4	MGLT-B6-4	.062-.270	.191-.201	.187	.500	.085	.415	.675	1.00
	MGLT-R6-7*	MGLT-B6-7*	.214-.437	.191-.201	.187	.500	.085	.572	.825	1.00
	MGLT-R6-E	MGLT-B6-E*	.062-.437	.191-.201	.187	.500	.085	.572	.950	1.00
1/4	MGLT-R8-6*	MGLT-B8-6*	.080-.375	.261-.272	.253	.588	.117	.560	.970	1.00
	MGLT-R8-10*	MGLT-B8-10*	.350-.625	.261-.272	.253	.588	.117	.810	1.220	1.00
	MGLT-R8-E	MGLT-B8-E*	.080-.625	.261-.272	.253	.588	.117	.810	1.405	1.00

100° COUNTERSUNK HEAD

Diameter	Steel	Aluminum	Stainless	Grip Range	Hole Size	A	B	C	D	E	F
3/16	MGL100-R6-6	MGL100-B6-6	MGL100-U6-6*	.125-.331	.191-.201	.188	.345	.070	.486	.762	1.00
	MGL100-R6-9	MGL100-B6-9	MGL100-U6-9*	.305-.500	.191-.201	.188	.345	.070	.653	.929	1.00
1/4	MGL100-R8-8	MGL100-B8-8	MGL100-U8-8*	.160-.475	.261-.272	.257	.405	.079	.660	1.059	1.00
	MGL100-R12-12	MGL100-B12-12	MGL100-U12-12*	.415-.725	.261-.272	.257	.405	.079	.910	1.309	1.00

*Consult JPC for availability

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RIVETS

MONOBOLT®

BLIND FASTENING SYSTEM

Product Features & Benefits

1. Extra High Shear and Tensile Strength – Requires fewer rivets per structure at lower installed cost.
2. Complete hole fill provides vibration proof joint.
3. Stem breaks essentially flush, eliminating secondary operations.
4. Wide grip range reduces inventories and possibility of selection error.
5. Mechanically locked stem allows positive visual inspection.

NOTE: We recommend using the Huck Magna-Lok fastening system on the previous page. It provides superior performance at a lower price. Huck Magna-Lok fasteners do not require the use of a nose piece like monobolts do. See page A19-26 for nosepieces.

ALUMINUM

Part No.	Head Style	'D' Diameter	Grip Range	'L' Length	'A' Head Diameter	'B' Head Height	Drill Size	Shear	Tensile
2774-0613	Brazier	3/16	.064-.270	.721	.385	.073	#10	675	500
2774-0617	Brazier	3/16	.064-.437	.946	.385	.073	#10	675	500
2764-0821	Countersunk	1/4	.125-.475	1.069	.385	.079	17/64	1350	950
2774-0817	Brazier	1/4	.080-.375	.965	.505	.104	17/64	1350	950
2774-0824	Brazier	1/4	.080-.625	1.366	.505	.104	17/64	1350	950

STEEL

Part No.	Head Style	'D' Diameter	Grip Range	'L' Length	'A' Head Diameter	'B' Head Height	Drill Size	Shear	Tensile
2771-0613	Brazier	3/16	.064-.270	.721	.385	.073	#10	1450	1150
2771-0617	Brazier	3/16	.064-.437	.946	.385	.073	#10	1450	1150
2761-0615	Countersunk	3/16	.125-.331	.786	.325	.070	#10	1450	1150
2771-0817	Brazier	1/4	.080-.375	.965	.505	.104	17/64	2650	2350
2771-0824	Brazier	1/4	.080-.625	1.366	.505	.104	17/64	2650	2350
2761-0821	Countersunk	1/4	.125-.475	1.069	.395	.079	17/64	2650	2350

STAINLESS STEEL

Part No.	Head Style	'D' Diameter	Grip Range	'L' Length	'A' Head Diameter	'B' Head Height	Drill Size	Shear	Tensile
2711-0613	Brazier	3/16	.064-.270	.721	.385	.073	#10	1450	1150
2711-0617	Brazier	3/16	.064-.437	.946	.385	.073	#10	1450	1150
2711-0817	Brazier	1/4	.080-.375	.965	.505	.104	17/64	2650	2350

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RIVETS

MAGNA-BULB®

High strength with a broader bearing surface. The Magna-Bulb fastener creates a broader bearing surface that helps spread the load over more area for a stronger, longer lasting connection.

Diameter (No.)	Specifications Part No.	Grip Range	D max
3/16 (6)	MBP-R6-M2	.075-.110	.592
Hole Size=.191-.201	MBP-R6-M3	.087-.150	.672
A nom=.187	MBP-R6-M4	.126-.189	.695
B max=.385	MBP-R6-M5	.165-.228	.734
C max=.101	MBP-R6-M6	.205-.268	.774
E min=1.00	MBP-R6-M7	.244-.307	.813
	MBP-R6-M8	.283-.347	.853
	MBP-R6-M9	.323-.386	.892
	MBP-R6-M10	.362-.425	.931
1/4 (8)	MBP-R8-M2	.060-.138	.759
Hole Size=.261-.272	MBP-R8-M3	.110-.189	.861
A nom=.251	MBP-R8-M4	.150-.229	.940
B max=.530	MBP-R8-M5	.189-.268	.912
C max=.125	MBP-R8-M6	.229-.308	.942
E min=1.10	MBP-R8-M7	.268-.346	.981
	MBP-R8-M8	.308-.387	1.021
	MBP-R8-M9	.346-.425	1.060
	MBP-R8-M10	.387-.466	1.100
	MBP-R8-M11	.425-.504	1.139
	MBP-R8-M12	.466-.545	1.179
	MBP-R8-M13	.504-.583	1.218
5/16 (10)	MBP-R10-3	.150-.250	1.115
Hole Size=.328-.340	MBP-R10-4	.200-.300	1.165
A nom=.316	MBP-R10-5	.250-.350	1.215
B max=.655	MBP-R10-6	.300-.400	1.265
C max=.152	MBP-R10-7	.350-.450	1.315
E min=1.38	MBP-R10-8	.400-.500	1.365
	MBP-R10-9	.450.-550	1.415
	MBP-R10-10	.500-.600	1.465

Diameter	Typical Installed Values in Normal Grip: Shear	Tensile	Pin Retention
3/16	1700	1100	300
1/4	3600	2000	600
5/16	5000	2960	450

	Materials and Finishes: Material	Finish
Sleeve	Steel	Zinc Plated Gold Chromate
Pin	Steel	Zinc Plated Gold Chromate

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RIVETS

MAGNA-GRIP® LOCK BOLT

Widely known as the most reliable grip fastening systems there is. The Huck Magna-Grip fastener also provides vibration resistance and high uniform installed values.

BUTTON HEAD

Nom. Dia.	Part Number Steel (R)	Part Number Aluminum 7075-T6(E)	Grip Range	Max Hole Dia.	Fastener Dimensions A	B	C	D $^{+.025}_{-.000}$	a Ref.	d Ref.	Installed Values* (lbs) Clampforce Steel	Clampforce Alum.	Shear Steel	Shear Alum.	Tensile Alum.	Tensile Alum.
3/16"	MGPB-R6-10G	MGPB-E6-10	.062-.625	.203	.183-.187	.375	.125	1.788	.194	.120	1300	900	2050	930	2250	1250
	MGPB-R6-20G	MGPB-E6-20	.32-1.250	.203	.183-.187	.375	.125	2.370	.194	.370	1300	900	2050	930	2250	1250
1/4"	MGPB-R8-10G	MGPB-E8-10	.062-.625	.265	.245-.249	.500	.140	1.965	.257	.155	1800	1500	2650	1650	3500	2150
	MGPB-R8-20G	MGPB-E8-20	.312-1.250	.265	.245-.249	.500	.140	2.560	.257	.370	1800	1600	2650	1650	3500	2150
5/16"	MGPB-R10-12G	MGPB-E10-12	.125-.750	.328	.307-.310	.625	.187	2.340	.276	.250	2650	1900	4500	2550	5800	3400
	MGPB-R10-22G	MGPB-E10-22	.625-1.375	.328	.307-.310	.625	.187	2.840	.320	.590	2650	1900	4500	2550	5800	3400
3/8"	MGPB-R12-14G	MGPB-E12-14	.125-.875	.390	.369-.375	.750	.245	2.875	.383	.188	4500	2650	6450	3700	8600	5300
	MGPB-R12-26G	MGPB-E12-26	.812-1.625	.390	.369-.375	.750	.245	3.500	.383	.810	4500	2650	6450	3700	8600	5300

TRUSS HEAD

Nom. Dia.	Part Number Steel (R)	Part Number Aluminum 7075-T6(E)	Grip Range	Max Hole Dia.	Fastener Dimensions A	B	C	D $^{+.025}_{-.000}$	a Ref.	d Ref.	Installed Values* (lbs) Clampforce Steel	Clampforce Alum.	Shear Steel	Shear Alum.	Tensile Alum.	Tensile Alum.
3/16"	MGP98T-R6-10G	MGP98T-E6-10	.062-.625	.203	.183-.186	.486	.093	1.788	.194	.970	1300	900	2050	930	2250	1250
	MGP98T-R6-20G	MGP98T-E6-20	.312-1.250	.203	.183-.186	.486	.093	2.370	.194	.312	1300	900	2050	930	2250	1250
1/4"	MGPT-R8-10G	MGP98T-E8-10	.062-.625	.265	.245-.249	.562	.109	1.965	.257	.125	1800	1500	2650	1650	3500	2150
	MGPT-R8-20G	MGP98T-E8-20	.312-1.250	.265	.245-.249	.562	.109	2.560	.257	.512	1800	1600	2650	1650	3500	2150
5/16"	MGPT-R10-12G	MGP98T-E10-12	.125-.750	.328	.307-.311	.750	.125	2.340	.276	.250	2650	1900	4500	2550	5800	3400
	MGPT-R10-22G	MGP98T-E10-22	.625-1.375	.328	.307-.311	.750	.125	2.840	.320	.590	2650	1900	4500	2550	5800	3400
3/8"	MGPT-R12-14G	MGP98T-E12-14	.125-.875	.390	.369-.374	.875	.166	2.875	.383	.188	4500	2650	6450	3700	8600	5300
	MGPT-R12-26G	MGP98T-E12-26	.812-1.625	.390	.369-.374	.875	.166	3.500	.383	.810	4500	2650	6450	3700	8600	5300

BROAD TRUSS HEAD

Nom. Dia.	Part Number Steel (R)	Part Number Aluminum 7075-T6(E)	Grip Range	Max Hole Dia.	Fastener Dimensions A	B	C	D $^{+.025}_{-.000}$	a Ref.	d Ref.	Installed Values* (lbs) Clampforce Steel	Clampforce Alum.	Shear Steel	Shear Alum.	Tensile Alum.	Tensile Alum.
3/16"	MGP30-R8-10G	MGP30-E8-10	.062-.625	.265	.245-.249	**	.160	1.965	.257	.125	1800	1500	2650	1650	3500	2150
	MGP30-R8-24G	MGP30-E8-24	.625-1.50	.265	.245-.249	**	.160	2.810	.257	.562	1800	1500	2650	1650	3500	2150
3/8"	MGP30-R12-24G	MGP30-E12-24	.625-1.50	.390	.369-.374	1.218	.210	3.375	.383	.680	4500	2650	6450	3700	8600	5300
	MGP30-R12-32G	MGP30-E12-32	1.125-2.00	.390	.369-.374	1.218	.210	3.875	.383	1.180	4500	2650	6450	3700	8600	5300

**Steel .937 Aluminum 1.063

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MAGNA-GRIP® LOCK BOLT

CAPPED SS TRUSS HEAD

Nom. Dia.	Part Number Steel (R)	Part Number Aluminum 7075-T6(E)	Grip Range	Max Hole Dia.	Fastener Dimensions A	B	C	D $^{+.025}_{-.000}$	a Ref.	d Ref.	Installed Values* (lbs) Clampforce Steel	Clampforce Alum.	Shear Steel	Shear Alum.	Tensile Alum.	Tensile Alum.
3/16"	MGPTC-R8-10G	–	.062-.625	.265	.245-.249	.604	.109	1.965	.257	.125	1800	1500	2650	1650	3500	2150
	MGPTC-R8-20G	–	.312-1.250	.265	.245-.249	.604	.109	2.560	.257	.512	1800	1500	2650	1650	3500	2150
3/8"	MGPTC-R12-14G	–	.125-.875	.390	.369-.374	.875	.166	2.875	.383	.188	4500	2650	6450	3700	8600	5300

90° FLUSH HEAD

Nom. Dia.	Part Number Steel (R)	Part Number Aluminum 7075-T6(E)	Grip Range	Max Hole Dia.	Fastener Dimensions A	B	C	D $^{+.025}_{-.000}$	a Ref.	d Ref.	Installed Values* (lbs) Clampforce Steel	Clampforce Alum.	Shear Steel	Shear Alum.	Tensile Alum.	Tensile Alum.
3/16"	MGP90-R6-10G	MGP90-E6-10	.062-.625	.203	.183-.187	.343	.100	1.788	.194	.120	1300	900	2050	930	2250	1250
	MGP90-R6-20G	MGP90-E6-20	.937-1.250	.203	.183-.187	.343	.100	2.370	.194	.370	1300	900	2050	930	2250	1250
1/4"	MGP90-R8-10G	MGP90-E8-10	.062-.625	.265	.245-.248	.473	.126	1.965	.222	.155	1800	1500	2650	1650	3500	2150
	MGP90-R8-20G	MGP90-E8-20	.312-1.250	.265	.245-.248	.473	.126	2.560	.257	.370	1800	1600	2650	1650	3500	2150
5/16"	MGP90-R10-12G	MGP90-E10-12	.125-.750	.328	.307-.311	.562	.160	2.340	.276	.160	2650	1900	4500	2550	5800	3400
	MGP90-R10-22G	MGP90-E10-22	.625-1.375	.328	.307-.311	.562	.160	2.840	.320	.660	2650	1900	4500	2550	5800	3400
3/8"	MGP90-R12-14G	MGP90-E12-14	.125-.875	.390	.369-.374	.683	.187	2.875	.336	.250	4500	2650	6450	3700	8600	5300
	MGP90-R12-26G	MGP90-E12-26	.812-1.625	.390	.369-.374	.683	.162	3.500	.383	.648	4500	2650	6450	3700	8600	5300

COLLARS

MGC

MGCS

MGCW

Nom. Dia.	Part Number Steel	Part Number 6061 Alum.	F	G	H	J	K
3/16"	MGC-R6U	MGC-F6	.307-.313	.189-.195	.265-.285	.040-.052	.365-.385
	MGCS-R6U		.308-.315	.189-.195	.290-.320	.085-.115	.495-.535
	MGCW-R6U	MGCW-F6	.307-.314	.189-.195	.290-.320	.090-.115	.640-.754
1/4"	MGC-R8U	MGC-F8	.399-.405	.250-.260	.360-.390	.055-.070	480-.520
	MGCW-R8U	MGCW-F8	.399-.405	.250-.260	.432-.462	.115-.145	.855-1.000
5/16"	MGC-R10U	MGC-F10	.501-.509	.312-.320	.430-.446	.069-.086	.605-.645
3/8"	MGC-R12U	MGC-F12	.603-.611	.376-.384	.490-.520	.086-.100	.730-.770

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RIVETS

C98LT® FASTENING SYSTEM

Highly polished stainless steel head for use in chrome grills on Kenworth, Freightliner and Peterbuilt tractors.

Part Number	Grip Range	'A'	'B'	Hole Size	Pin Material	Use With Collar
C98LT-U6-3BR	.125-.250	.125-.250	1-9/16	13/64	Stainless Steel	3LCW-R6G or 3LC-2CU6
C98LT-U6-5BR	.251-.375	.251-.375	1-11/16			
C98LT-U6-7BR	.376-.500	.376-.500	1-13/16			
C98LT-U6-9BR	.501-.625	.501-.625	1-15/16			
C98LT-U6-12BR	.688-.813	.688-.813	2-1/32			

FLOORTIGHT®

Designed for large vehicle flooring installations, FloorTight® fasteners eliminate the counterboring process in plywood and dimpling in plymetal, Because FloorTight® fasteners are locked on the blind side, they are also ideal for other plywood or plymetal applications.

PWF

PMF

Fastener Dimensions

Part No.	Grip Range	A max	B nom	C max	D nom	E nom	F radius	Clamp
PMF-R10-20	.750-1.375	.325	.560	2.125	1.750	.050	.125	Standard
PMF-R10-26	.750-1.625	.325	.560	2.500	2.125	.050	.125	Standard
PWF-R10-20	.750-1.375	.325	.675	2.125	1.750	.050	.125	Standard
PWF-R10-26	.750-1.625	.325	.675	2.500	2.125	.050	.125	Standard
PMFMC-R10-20	.750-1.375	.325	.675	2.125	1.750	.050	.125	Medium
PWFWLC-R10-20	.750-1.375	.325	.850	2.125	1.750	.050	.125	Low Clamp Wide Flange

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HUCKTAINER®

FASTENING SYSTEM FOR FRP
(fiberglass reinforced plywood)

Product Features & Benefits

1. Low profile head design can save up to five cubic feet of cargo space.
2. Available with encapsulated head for maximum corrosion resistance and aesthetic appeal.
3. Weather seal provides protection from the elements.
4. Heavy zinc plating protects against corrosion.
5. When the proper fastener is selected it will not crush or craze FRP panels. No more bullnosing in your FRP.

Standard low profile head HLPP-R12-( )

Medium bearing encapsulate head HLPM(*)-R12-( )

Wide bearing encapsulate head HLPE(*)-R12-( )

Low Profile Head	Part Number Med Encapsulated (R)	Aluminum 7075-T6(E)	Grip Number	Grip Range min	Grip Range max	Hole Size	A	B	C	A
HLPP-R12-10	HLPM(**)-R12-10	HLPE(**)-R12-10	-10	.562	.625	.405-.421	.624	2.232	.090	.015
HLPP-R12-11	HLPM(**)-R12-11	HLPE(**)-R12-11	-11	.625	.687	.405-.421	.687	2.295	.090	.015
HLPP-R12-12	HLPM(**)-R12-12	HLPE(**)-R12-12	-12	.687	.750	.405-.421	.749	2.357	.220	.145
HLPP-R12-13	HLPM(**)-R12-13	HLPE(**)-R12-13	-13	.750	.812	.405-.421	.812	2.420	.220	.145
HLPP-R12-14	HLPM(**)-R12-14	HLPE(**)-R12-14	-14	.812	.875	.405-.421	.874	2.482	.345	.270
HLPP-R12-15	HLPM(**)-R12-15	HLPE(**)-R12-15	-15	.875	.937	.405-.421	.937	2.545	.345	.270
HLPP-R12-16	HLPM(**)-R12-16	HLPE(**)-R12-16	-16	.937	1.000	.405-.421	.999	2.607	.470	.395
HLPP-R12-17	HLPM(**)-R12-17	HLPE(**)-R12-17	-17	1.000	1.062	.405-.421	1.062	2.670	.532	.457
HLPP-R12-18	HLPM(**)-R12-18	HLPE(**)-R12-18	-18	1.062	1.125	.405-.421	1.124	2.732	.595	.520
HLPP-R12-19	HLPM(**)-R12-19	HLPE(**)-R12-19	-19	1.125	1.187	.405-.421	1.187	2.795	.658	5.83
HLPP-R12-20	HLPM(**)-R12-20	HLPE(**)-R12-20	-20	1.187	1.312	.405-.421	1.249	2.857	.720	.645
HLPP-R12-21	HLPM(**)-R12-21	HLPE(**)-R12-21	-21	1.250	1.375	.405-.421	1.312	2.920	.782	.707
HLPP-R12-22	HLPM(**)-R12-22	HLPE(**)-R12-22	-22	1.312	1.437	.405-.421	1.374	2.982	.782	.707
HLPP-R12-23	HLPM(**)-R12-23	HLPE(**)-R12-23	-23	1.375	1.500	.405-.421	1.437	3.045	.782	.707
HLPP-R12-24	HLPM(**)-R12-24	HLPE(**)-R12-24	-24	1.437	1.562	.405-.421	1.499	3.107	.782	.707
HLPP-R12-25	HLPM(**)-R12-25	HLPE(**)-R12-25	-25	1.500	1.625	.405-.421	1.562	3.170	.782	.707
HLPP-R12-26	HLPM(**)-R12-26	HLPE(**)-R12-26	-26	1.562	1.687	.405-.421	1.625	2.232	.782	.707
HLPP-R12-27	HLPM(**)-R12-27	HLPE(**)-R12-27	-27	1.625	1.750	.405-.421	1.687	3.295	.782	.707
HLPP-R12-28	HLPM(**)-R12-28	HLPE(**)-R12-28	-28	1.687	1.812	.405-.421	1.750	3.357	.782	.707
HLPP-R12-29	HLPM(**)-R12-29	HLPE(**)-R12-29	-29	1.750	1.875	.405-.421	1.812	3.420	.782	.707
HLPP-R12-30	HLPM(**)-R12-30	HLPE(**)-R12-30	30	1.812	1.937	.405-.421	1.875	3.482	.782	NA

Installed Values in Normal Grip (lbs)	
Tensile	800 lbs min
	1200 lbs type max grip
	1800 lbs type min grip
Clamp	700 lbs type

Clearance sleeve HLPSC-R12

Medium bearing sleeve HLPSM-R12

Clearance sleeve HLPS-R12

*Add encapsulated color: W=white, G=gray, RY=Ryder yellow, HY=Hertz yellow. Consult HUCK for other colors.

Materials and Finishes	Material	Finish
Sleeve	Steel	Zinc Plated Gold Chromate
Pin	Steel	Zinc Plated Clear Chromate

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RIVETS

CAMCAR TEXTRON CAMTAINER® FASTENING SYSTEM

NUT & BOLT SYSTEMS FOR TRUCK TRAILER ASSEMBLIES

Product Features & Benefits

1. Original Camtainer bolt features low-profile steel head.
2. Camtainer II bolt features a low-profile molded head, available in a variety of colors.
3. Knurled shoulder.
4. CAMGRIP® epoxy on threads.
5. Special underhead seal.
6. TORX® Drive Flange nut.
7. Positive high torque and excellent structural strength
8. One person installation.
9. Seals out Moisture.
10. Resists loosening from vibration and expansion/contraction.
11. Tamper-resistant.
12. Corrosion-resistant

CAMTAINER® FASTENERS

Part Number	Size	Head Diameter	Grip Length Using 1/2" Long Nut	Head Style
CT-883-80500	5/16-18 x 3/4	7/8	.785-.900	Standard
CT-880-82112	5/16-18 x 7/8	7/8	.875-1.062	Standard
CT-883-82920	5/16-18 x 1"	7/8	.778-1.250	Standard
CT-880-84160	5/16-18 x 1-1/4	7/8	1.062-1.250	Standard
CT-880-82120	5/16-18 x 7/8	1-1/8	.875-1.062	Washer Head
CT-880-82501	5/16-18 x 3/4	1"	.785-.870	Encapsulated-Gray
CT-883-80113	5/16-18 x 7/8	1"	.885-1.095	Encapsulated-Gray
CT-880-82920	5/16-18 x 1"	1"	.812-.937	Encapsulated-Gray
CT-883-80502	5/16-18 x 3/4	1"	.785-.870	Encapsulated-White
CT-880-82922	5/16-18 x 1	1"	.778-1.230	Encapsulated-White

CAMTAINER® NUTS

Part Number	Size	Head Diameter	Grip Length Using 1/2" Long Nut	Head Style
CT-890-59000	5/16-18 x 3/8	1"	T55	Standard
CT-890-60008	5/16-18 x 1/2	1"	T55	Standard
CT-890-60050	5/16-18 x 5/8	1"	T55	Standard
CT-890-60020	5/16-18 x 1/2	5/8	T50	Small

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HP8® POWERBOLT™

HUCK's original Grade 8 fastening system, the HP8® Powerbolt®, provides an easy-to-use system that delivers a permanent, vibration resistant clamp. These fasteners, available in diameters ranging from 1/2" to 3/4", offer fast, tamper-resistant installation, with only a visual inspection required.

POWERBOLTS

Part Number	Diameter	Grip Range	A	B	C	D
HP8F-DT16-8	1/2"	.250-.750	1.625	3.550	.307	1.07
HP8F-DT16-12	1/2"	.550-1.00	1.875	3.800	.307	1.07
HP8F-DT16-16	1/2"	.750-1.25	2.125	4.050	.307	1.07
HP8F-DT16-20	1/2"	1.00-1.50	2.375	4.300	.307	1.07
HP8F-DT16-28	1/2"	1.50-2.00	2.875	4.800	.307	1.07
HP8F-DT16-36	1/2"	2.00-2.50	3.375	5.300	.307	1.07
HP8F-DT16-44	1/2"	2.50-3.00	3.875	5.800	.307	1.07
HP8F-DT20-8	5/8"	.250-.750	1.820	4.038	.498	1.330
HP8F-DT20-12	5/8"	.500-1.00	2.070	4.288	.498	1.330
HP8F-DT20-16	5/8"	.750-1.25	2.320	4.538	.498	1.330
HP8F-DT20-20	5/8"	1.00-1.50	2.570	4.788	.498	1.330
HP8F-DT20-28	5/8"	1.50-2.00	3.070	5.288	.498	1.330
HP8F-DT20-36	5/8"	2.00-2.50	3.570	5.788	.498	1.330
HP8F-DT20-44	5/8"	2.50-3.00	4.070	6.288	.498	1.330
HP8F-DT24-8	3/4"	.250-.750	2.000	4.640	.600	1.590
HP8F-DT24-12	3/4"	.500-1.00	2.250	4.890	.600	1.590
HP8F-DT24-16	3/4"	.750-1.25	2.500	5.140	.600	1.590
HP8F-DT24-20	3/4"	1.00-1.50	2.750	5.390	.600	1.590
HP8F-DT24-28	3/4"	1.50-2.00	3.250	5.890	.600	1.590
HP8F-DT24-32	3/4"	1.75-.2.25	3.500	6.140	.600	1.590
HP8F-DT24-36	3/4"	2.00-2.50	3.750	6.390	.600	1.590
HP8F-DT24-44	3/4"	2.50-3.00	4.250	6.890	.600	1.590

COLLARS

Part Number	Diameter	E	G	H	I
HPCF-R16U	1/2"	1.065	.750	.812	.519
HPCF-R20U	5/8"	1.340	.922	1.009	.645
HPCF-R24U	3/4"	1.572	1.107	1.213	7.80

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RIVETS

METRIC HUCK-FIT® POWERBOLT™

For use in OEM and aftermarket applications that require a metric fastener, the Metric Huck-Fit® PowerBolt™ fastening system includes a pin and collar with fit-up thread. This feature allows the Metric Huck-Fit® to be accurately positioned prior to fastening. The Metric Huck-Fit® fasteners are also removable, using an impact wrench.

POWERBOLTS

Part Number	Diameter	Grip Range(mm)	A	B max	C max	D ref	E max
MHFF-DT12-10	12mm	5-15	11,73-12,00	11,9	15	16,3	24,7
MHFF-DT12-15	12mm	10-20	11,73-12,00	11,9	15	16,3	24,7
MHFF-DT12-20	12mm	15-25	11,73-12,00	11,9	15	16,3	24,7
MHFF-DT12-25	12mm	2030	11,73-12,00	11,9	15	16,3	24,7
MHFF-DT12-30	12mm	25-35	11,73-12,00	11,9	15	16,3	24,7
MHFF-DT12-35	12mm	30-40	11,73-12,00	11,9	15	16,3	24,7
MHFF-DT12-40	12mm	35-45	11,73-12,00	11,9	15	16,3	24,7
MHFF-DT16-10	16mm	5-15	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-15	16mm	10-20	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-17	16mm	10-24	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-20	16mm	15-25	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-25	16mm	20-30	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-30	16mm	25-35	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-35	16mm	30-40	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-40	16mm	35-45	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-45	16mm	40-50	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT16-50	16mm	45-55	15,73-16,00	15,1	21	22.9	32,8
MHFF-DT20-20	20mm	15-25	19,67-20,00	17,7	30	32,7	43,0
MHFF-DT20-25	20mm	20-30	19,67-20,00	17,7	30	32,7	43,0
MHFF-DT20-30	20mm	25-35	19,67-20,00	17,7	30	32,7	43,0
MHFF-DT20-25	20mm	30-40	19,67-20,00	17,7	30	32,7	43,0
MHFF-DT20-30	20mm	35-45	19,67-20,00	17,7	30	32,7	43,0
MHFF-DT20-35	20mm	30-40	19,67-20,00	17,7	30	32,7	43,0
MHFF-DT20-40	20mm	35-45	19,67-20,00	17,7	30	32,7	43,0

COLLARS

Part Number	Diameter	K	L	P ref	Q max	R ref	T
MHCH-R12U	12mm	15,6	12,3	7,1	21,6	23,1	22,6
MHCH-R16U	16mm	20,1	16,5	8,9	29,6	31,9	28,6
MHCH-R20U	20mm	24,0	20,3	10,7	34,3	37,9	34,3

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RIVETS

POP® RIVET TOOLS

MODEL PRG510A-PLUS

Capacity	Maintenance
Applications	3/16" alum. blind rivets
Stroke	? in
Weight	4 lbs
Air Pressure	85 psi
Air Consump.	0.007 cf/rivet
Pull Capacity	? lbs

MODEL PRG540

Capacity	Production/maintenance
Applications	1/4" blind rivets
Stroke	? in
Weight	4.85 lbs
Air Pressure	85 psi
Air Consump.	0.022 cf/rivet
Pull Capacity	? lbs

MODEL MCS5200*

Capacity	Production/maintenance
Applications	3/16" blind rivets
Stroke	? in
Weight	3.1 lbs
Air Pressure	85 psi
Air Consump.	0.011 cf/rivet
Pull Capacity	? lbs

*Available without vacuum collection system as MODEL PRT5200

MODEL MCS5400LS*

Capacity	Production/maintenance
Applications	3/16" blind rivets
Stroke	.630 in
Weight	6.42 lbs
Air Pressure	78-85 psi
Air Consump.	0.088 cf/rivet
Pull Capacity	1760

*Available without vacuum collection system as MODEL PRT5200

LOBSTER TOOLING

MODEL AR2000M

Capacity	Production/maintenance
Applications	3/16" blind rivets
Stroke	.625 in
Weight	2.65 lbs
Air Pressure	71-85 psi
Air Consump.	0.069 cf/rivet
Pull Capacity	1804 lbs

MODEL AR2000H

Capacity	Production/maintenance
Applications	1/4" blind rivets
Stroke	.719 in
Weight	3.53 lbs
Air Pressure	71-85 psi
Air Consump.	0.127 cf/rivet
Pull Capacity	2750 lbs

MODEL AR021EX

Capacity	Production/maintenance
Applications	1/4" blind structural rivets
Stroke	1.024 in
Weight	6.42 lbs
Air Pressure	85-92 psi
Air Consump.	0.162 cf/rivet
Pull Capacity	3190 lbs

MODEL ARV015M

Capacity	Production/maintenance
Applications	3/16" blind rivets
Stroke	.630 in
Weight	6.42 lbs
Air Pressure	78-85 psi
Air Consump.	0.088 cf/rivet
Pull Capacity	1760 lbs

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RIVETS

HUCK FASTENERS TOOLING

MODEL HT202

Capacity	Production/maintenance
Applications	1/4" blind rivets
Stroke	.743 in (19.1 mm)
Weight	(without nose assembly) 5.1 lbs (2.3 kg)
Air Pressure	90 psi (620 kpa)
Air Consump.	6 CFM (0.003 m3/s)
Pull Capacity	3889 lbs (17.3 kN)
Speed/Cycle	30 per minute
Noise Level	75 dba @ 90 psi

MODEL HT2025

Capacity	Production/maintenance
Applications	1/4" blind bolts / rivets
Stroke	.675 in (17.1 mm)
Weight	(without nose assembly) 5.75 lbs (2.6 kg)
Air Pressure	90-110 psi (620-758 kpa)
Air Consump.	6 CFM (0.003 m3/s)
Pull Capacity	5290 lbs (17.3 kN)
Speed/Cycle	30 per minute
Noise Level	75 dba @ 90 psi

MODEL HT246

Capacity	Production
Applications	1/4" blind rivets / 3/8" lockbolts
Stroke	.875 in (22.2 mm)
Weight	(without nose assembly) 11.1 lbs (5 kg)
Air Pressure	90-100 psi (620-690 kpa)
Air Consump.	30 CFM (0.014 m3/s)
Pull Capacity	9986 lbs (44.4 kN)
Speed/Cycle	30 per minute
Noise Level	85 dba @ 90 psi

MODEL HT2620

Capacity	Production
Applications	1/2" blind rivets 1/2" lockbolts
Stroke	1.437 in (36.5 mm)
Weight	(without nose assembly) 9.88 lbs (4.5 kg)
Pull Pressure	7400 psi (510.3 bar)
Return Pressure	3200 psi (510.3 bar)
Pull Capacity	17,745 lbs (78.9 kN)

MODEL HT2624

Capacity	Production
Applications	5/8" blind bolts 5/8" lockbolts
Stroke	1.687 in (42.8 mm)
Weight	(without nose assembly) 14 lbs (6.4 kg)
Pull Pressure	7400 psi (510.3 bar)
Return Pressure	3200 psi (510.3 bar)
Pull Capacity	30,356745 lbs (135.0 kN)

MODEL HT2628

Capacity	Production
Applications	3/4" blind bolts 3/4" lockbolts
Stroke	1.812 in (19.1 mm)
Weight	(without nose assembly) 16.5 lbs (2.3 kg)
Pull Pressure	7400 psi (510.3 bar)
Return Pressure	3200 psi (220.7 bar)
Pull Capacity	39,858 lbs (177 kN)

MODEL HT940

Power	115v or 220v Single Phase
Dry Weight	66 lbs
Oper. Weight	74.5 lbs
Dimensions	13.9L x 18.5h x 16.1win
Flow rate	0.5 GPM (2.0L/min)
Fluid capacity	1.5 gal
Ambient Temp.	0°F min - 150°F max

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RIVETS

MASTER BLIND RIVET ASSORTMENT

- Available either all aluminum, or aluminum and steel.
- Regular and large flange dome head.
- 3/32", 1/8", 5/32", 3/16" rivet diameters.
- Grip ranges up to 1/2", also includes 1/8", 5/32", 3/16" back-up support washers, and 1/8" countersunk rivets.

- All Aluminum -
Part No. 501096
935 pieces • 21 items • 12017 steel tray

52615	AD43ABS	AD66ABS	AD62ABS	AD44ABSLF
52623	AD45ABS	AD68ABS	AD64ABS	
52624	AD52ABS	AD42ABS	AD66ABSLF	
AD32ABS	AD54ABS	AD44ABS	AD68ABSLF	
AD41ABS	AD56ABS	AK42ABS	AD42ABSLF	

Numbers in assortment

- Aluminum & Steel -
Part No. 501083
935 pieces • 24 items • 12017 steel tray

52615	SD43BS	SD66BS	SK42BS	AD66ABSLF
52623	AD54BS	AD68BS	SD63BS	AD68ABSLF
52624	SD52BS	SD68BS	AD62ABS	SD42BSLF
SD32BS	SD54BS	SD42BS	SD64BS	SD44BSF
SD41BS	SD56BS	SD44BS	AD64ABS	

Numbers in assortment

BASIC BLIND RIVET ASSORTMENT/ WITH TOOL

- 15 popular sizes of steel and aluminum rivets.
- Three large flange numbers provide grip range up to 5/8".
- 3/32", 1/8", 5/32", 3/16" rivet diameters.
- Professional quality rivet gun, Part No. 52601, included with steel tray assortment.

Part No. 501057
1200 pieces • 16 items
12056 steel tray

52601	AD44ABS	AK44ABS	AD64ABS
SD42BS	SK42BS	SD63BS	AD66ABSLF
AD42ABS	AK42ABS	AD62ABS	AD68ABSLF
SD44BS	SK44BS	SD64BS	AD610ABSLF

Numbers in assortment

SHOP BLIND RIVET ASSORTMENT

- 6 popular sizes of steel and aluminum rivets.

DOES NOT CONTAIN LARGE FLANGE RIVETS.

- Aluminum & Steel -
Part No. 52701
600 pieces • 12 items • 12038 plastic tray

SD42BS	AD44ABS	SK44BS	AD62ABS
AD42ABS	SK42BS	AK44ABS	SD64BS
SD44BS	AK42ABS	SD63BS	AD64ABS

Numbers in assortment

BACK-UP WASHERS

PART NUMBER	MATERIAL	HOLE SIZE	DIA.	QTY
52617	Steel	3/32	1/2 Sq.	200
52618	Steel	1/8	1/2 Sq.	200
52619	Steel	5/32	1/2 Sq.	200
52620	Steel	3/16	1/2 Sq.	200
52621	Steel	1/8	3/8 Rd.	200
52622	Steel	3/16	1/2 Rd.	200
52623	Alum.	1/8	3/8 Rd.	200
52624	Alum.	5/32	7/16 Rd.	200
52615	Alum.	3/16	1/2 Rd.	200

- All back-up washers are .063" thick steel or aluminum.
- Can be used when fastening soft materials or to compensate for over size holes where access to both sides of the work is possible.

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RIVETS

HEAVY DUTY RIVETER

Sets 1/4", 3/16" (Stainless Steel) and all special body shop rivets.

- **Extra nosepieces are conveniently stored in holes on tool body.**
- **Heavy duty tool features steel threads and light weight aluminum body.**
- **Sets 1/8" through 1/4" rivets including special door, window regulator and glass stop rivets.**
- **Long handles and gear reduction system easily set even 1/4" all steel rivets.**
- **Includes 5/32", 3/16" and 1/4" rivet nosepieces.**
- **Order optional nosepieces for special body rivets and monobolts from chart.**

Part No. 52704

NOSEPIECES

PART NUMBER	SIZE (INCHES)
52607	1/8
52608	5/32
52609	3/16
52610	1/4

JAWS
Part No. 52611
1-SET

INDUSTRIAL RIVET GUN

- **The most advanced industrial hand riveter.**
- **Contains four nosepieces for 3/32", 1/8", 5/32" and 3/16" diameter rivets.**

Part No. 52601

WILL NOT SET 3/16" STAINLESS RIVETS

NOSEPIECES

PART NUMBER	SIZE (INCHES)
52602	3/32
52603	1/8
52604	5/32
52605	3/16

JAWS
Part No. 52606
1-SET

SPECIAL MANDRELS (NOSEPIECES)

Required to install certain trim, door, window regulator and glass stop rivets; monobolt structural rivets.

SPECIAL RIVET TYPE	SPECIAL RIVET PIN	RIVET GUN APPLICATIONS	PART SPECIAL MANDREL	
Trim Rivets	**52612**	Snapo-Model 404 B (4001)	**52718**	
	52613			
	52721	Part No. 52601 (5/16"-24 Thread) Marson-HP-2 (39000) Snapo-Model 202 B (4003)	**52719**	
Window Regulator, Glass Stop, And Door Split Rivets	**52727**	Part No. 52704 Marson-HP-5 Big Daddy (39010) Snapo-04024 Richline-04012 (model HN-80)		
	52728			
	52729		**52797**	
	52791			
Monobolt 3/16	**52750**	Part No. 52704 Marson-HP-5 Big Daddy (39010) Snapo-04024 Richline-04012 (model HN-80)	**52798**	
	52751		**52798**	
	52753		**52798**	
	52754		**52798**	
Monobolt 1/4	**52752**		**52799**	
	52755		**52799**	
	52756		**52799**	
Klamp-Tite Rivet 3/16	**507315**		**507311**	
	507316		**507311**	
	507317		**507311**	
Klamp-Tite Rivet 1/4	**507318**		**507312**	
	507319		**507312**	

A19

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RIVETS

RIVET INTERCHANGE

OLD NO.	NEW NO.
52625	AD32ABS
52626	AD32BS
52627	SD32BS
52628	AD34BS
52629	AD42BS
52630	SD34BS
52631	AD41ABS
52632	AD41BS
52633	SD41BS
52634	CD42BS
52635	SSD42SSBS
52636	N/A
52637	SSD42BS
52638	AD43ABS
52639	AD43BS
52640	SD43BS
52641	SSD43SSBS
52642	SSD43BS
52643	CD44BS
52644	SSD44SSBS
52645	SSD44BS
52646	AD45ABS
52647	AD45BS
52648	SD45BS
52649	AD46ABS
52650	AD46BS
52651	SD46BS
52652	AD44BS
52653	N/A
52654	SSD46BS
52655	AD48ABS
52656	AD48BS
52657	SD48BS
52658	AD52ABS
52659	AD52BS
52660	SD52BS
52661	N/A
52662	SSD52BS
52663	AD54ABS
52664	AD54BS
52665	SD54BS
52666	N/A
52667	N/A
52668	SSD54BS
52669	AD56ABS
52670	AD56BS
52671	SD56BS
52672	N/A
52673	SSD56BS
52674	AD58ABS
52675	AD58BS
52676	N/A
52677	SD58BS
52678	AD62BS
52679	SSD62SSBS
52680	SSD62BS
52681	AD64BS
52682	SSD64SSBS
52683	SSD64BS
52684	AD66ABS
52685	AD66BS
52686	SD66BS
52687	SSD66SSBS
52688	SSD66BS
52689	AD68ABS
52690	AD68BS
52691	SD68BS
52692	SSD68SSBS
52693	SSD68BS
52694	AD610ABS
52695	AD610BS
52696	SD610BS
52697	AD612ABS
52698	AD612BS
52699	SD612BS
52705	SD42BS
52706	AD42ABS
52707	SD44BS
52708	AD44ABS
52709	SK42BS
52710	AK42ABS
52711	SK44BS
52712	AK44ABS
52713	SD62BS
52714	AD62ABS
52715	SD64BS
52716	AD64ABS
52720	AD34ABS
52724	AD66ABSLF
52725	AD68ABSLF
52726	AD610ABSLF
52731	AD84BS
52731	SD84BS
52733	AD86BS
52733	SD86BS
52735	AD88BS
52735	SD88BS
52737	AD812BS
52737	SD812BS
52738	AD64ABSLF
52739	N/A
52740	AK43BS
52741	AD86ABS
52746	N/A
52747	N/A
52748	N/A
52749	N/A
52750	MGLP-B6-4
52751	MGLP-B6-7
52752	MGLP-B8-6
52753	MGLP-R6-4
52754	MGLP-R6-E
52755	MGLP-R8-6
52756	MGLP-R8-E
52760	1691-0410
52761	1691-0414
52762	1691-0512
52763	1693-0613
52764	1693-0619
52765	1692-0613
52766	1692-0621
52767	1692-0631
52768	1691-0613
52769	1691-0619
52770	AD42ABSLF
52772	SD42BSLF
52773	AD44ABSLF
52774	AD44BSLF
52775	SD44BSLF
52777	SD64BSLF
52778	AD66BSLF
52779	SD66BSLF
52780	AD68BSLF
52781	AD42BSLF
52781	SD68BSLF
52782	AD610BSLF
52783	SD610BSLF
52784	AD612ABSLF
52785	AD612BSLF
52786	SD612BSLF
52787	AK42BS
52788	N/A
52789	SK429BS
52790	AK44BS
52792	N/A
52793	N/A
507150	SO-38-206-02-16
507151	SO-38-206-04-16
507152	SO-38-206-06-16
507153	SO-38-206-08-16
507154	SO-38-206-10-16
507155	SO-38-206-12-16
507156	SO-38-208-04-16
507157	SO-38-208-06-16
507158	SO-38-208-08-16
507159	SO-38-208-10-16
507160	SO-38-208-12-16
507161	SO-38-208-16-16
507175	SO-38-106-02-16
507176	SO-38-106-04-16
507177	SO-38-106-06-16
507178	SO-38-106-08-16
507179	SO-38-106-10-16
507180	SO-38-106-12-16
507181	SO-38-108-04-16
507182	SO-38-108-06-16
507183	SO-38-108-08-16
507184	SO-38-108-10-16
507185	SO-38-108-12-16
507186	SO-38-108-16-16
507190	SO-10-13-706-13
507191	SO-10-14-706-13
507302	701-103
507304	701-105
507305	701-106
507306	701-107
507307	704-103
507308	704-105
507309	704-106
507310	704-107
507311	N/A
507312	N/A
507315	RV6606-0604
507316	RV6606-0606
507317	RV6606-0608
507318	RV6606-0804
507319	RV6606-0806
507320	RV6606-0604W
507321	RV6606-0606W
507322	RV6606-0608W
507323	RV6606-0804W
507324	RV6606-0806W
507332	701-101
507333	701-109
507334	704-109

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CHAIN

SYSTEM 3 — PROOF COIL CHAIN

Excellent general purpose chain of standard commercial quality for all applications not requiring high strength-to-weight ratios. Frequently used to fabricate tow chains, binding or tie-down chain and logging chain.

DO NOT USE FOR OVERHEAD LIFTING

Protected by BLU-KROME™ against rust & corrosion

- **Low carbon steel.**

SIZE	PART NUMBER	FEET PER REEL	WORKING LOAD LIMIT LBS. †	WEIGHT SIZE
3/16	**407201**	100	750	42
1/4	**407202**	65	1250	50
5/16	***407203**	60	1900	61
3/8	***407204**	35	2650	67

SYSTEM 4 — HIGH TEST CHAIN

Designed for use in load binding, towing, logging and other applications requiring higher strength-to-weight ratios than System 3.

DO NOT USE FOR OVERHEAD LIFTING

- **Meets DOT regulations.**

PAILS - SHOT PEENED (BRIGHT)

SIZE	PART NUMBER	FEET PER PAIL	WORKING LOAD LIMIT LBS. †	WEIGHT
1/4	***407306**	150	2600	98
5/16	***407307**	100	3900	105
3/8	***407308**	75	5400	120

SYSTEM 7 — TRANSPORT CHAIN

Designed for use in load binding, towing, logging and many applications requiring higher strength-to-weight ratios than System 4.

DO NOT USE FOR OVERHEAD LIFTING

Protected by YELLOW CHROMATE™ against rust & corrosion

- **Special high strength, heat treated steel.**
- **Meets stringent DOT regulations with smaller chain, meaning less weight and easier to handle.**
- **Cannot be cut with ordinary chain cutter. Use torch or abrasive cut-off wheel.**

HALF DRUM

SIZE	PART NUMBER	FEET PER 1/2 DRUM	WORKING LOAD LIMIT LBS. †	WEIGHT SIZE
1/4	***407309**	400	3150	288
5/16	***407310**	275	4700	306
3/8	***407311**	200	6600	284
1/2	***407312**	100	11300	238

PAILS

SIZE	PART NUMBER	FEET PER PAIL	WORKING LOAD LIMIT LBS. †	WEIGHT
1/4	***407313**	150	3150	111
5/16	***407314**	100	4700	114
3/8	***407315**	75	6600	110

STRAIGHT LINK MACHINE CHAIN

General utility, farm.

DO NOT USE FOR OVERHEAD LIFTING

- **Low carbon steel.**
- **Packed 100 ft per box.**

Protected by BLU-KROME™ against rust & corrosion

TRADE	PART NUMBER	WORKING LOAD LIMIT LBS. †
4	**407323**	215
3	**407324**	270
2	**407325**	325
1	**407326**	390
1/0	**407327**	465
2/0	**407328**	545
3/0	**407329**	635
4/0	**407330**	700
5/0	**407331**	925

TWIST LINK MACHINE CHAIN

General utility, farm.

DO NOT USE FOR OVERHEAD LIFTING

- **Low carbon steel.**
- **Packed 100 ft per box.**
- **Links twisted 90°.**

Protected by BLU-KROME™ against rust & corrosion

TRADE	PART NUMBER	WORKING LOAD LIMIT LBS. †
3	**407333**	255
2	**407334**	310
1/0	**407336**	440
2/0	**407337**	520
4/0	**407339**	670
5/0	**407340**	880

HEEL COIL CHAIN

Farm, animal, general utility, where long wide links are required.

DO NOT USE FOR OVERHEAD LIFTING

- **Low carbon steel, bright finish.**
- **Wider & longer links minimize kinking.**
- **Packed 100 ft per carton.**

TRADE	PART NUMBER	WORKING LOAD LIMIT LBS. †
130	****407343**	1350

*** Must be shipped motor freight.** **** To be deleted when stock is depleted.**

† **WARNING:** **Do not exceed working load limit**

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CHAIN

PASSING LINK CHAIN

TRADE SIZE	FINISH	PART NUMBER	WORKING LOAD LIMIT LBS. †
2/0	Galvanized	**407341**	450
4/0	Blu-Krome	**407342**	600

Farm equipment, animal restrictions, general purpose use.

DO NOT USE FOR OVERHEAD LIFTING.

- **Low carbon steel.**
- **Wide link design permits links to pass one another freely, minimizing kinking and tangling.**
- **Packed 100 ft per carton.**

JACK CHAIN

TRADE SIZE	PART NUMBER	WORKING LOAD LIMIT LBS. †
16	**407347**	10
14	**407348**	16
12	**407349**	29
10	**407350**	43
8	**407351**	60

Protected by BLU-KROME™ against rust & corrosion

Fixtures, novelty, general utility use not requiring high strength.

DO NOT USE FOR OVERHEAD LIFTING.

- **Low carbon steel.**
- **Packed 100 ft per carton.**

LOCK LINK, SINGLE LOOP CHAIN

TRADE SIZE	PART NUMBER	WORKING LOAD LIMIT LBS. †
2*	**407353**	155
1/0	**407354**	265
2/0	**407355**	340
3/0	**407356**	405
4/0	**407357**	485
5/0	**407358**	580

Protected by BLU-KROME™ against rust & corrosion

Sprocket wheel (sheared type), valve wheel chains, overhead door chains, ventilator chains, machinery chains, general utility.

DO NOT USE FOR OVERHEAD LIFTING.

- **Low carbon steel.**
- **Links are single loop weldless with wrapped or sheared ends.**
- **Packed 100 ft per carton.**

INCO DOUBLE LOOP CHAIN

TRADE SIZE	FINISH	PART NUMBER	WORKING LOAD LIMIT LBS. †
5	Blu-Krome	**407359**	55
4	Blu-Krome	**407360**	70
3	Blu-Krome	**407361**	90
2	Blu-Krome	**407362**	115
1	Blu-Krome	**407363**	155
1/0	Galvanized	**407364**	200
2/0	Blu-Krome	**407365**	255
4/0	Galvanized	**407367**	365
8/0	Galvanized	**407368**	705

Gymnasium and playground equipment, farm and animal chains, boat chains, gate chains, general purpose applications

DO NOT USE FOR OVERHEAD LIFTING.

- **Low carbon steel.**
- **Playground equipment association has adopted 1/0 inco chain as the minimum size chain for swing sets.**
- **Packed 100 ft per carton.**

SASH CHAIN

TRADE SIZE	PART NUMBER	WORKING LOAD LIMIT LBS. †
8	**407369**	75
25	**407370**	94
30	**407371**	81
35	**407372**	106
40	**407373**	131
45	**407374**	175
50	**407375**	225

Protected by BLU-KROME™ against rust & corrosion

Counter-balance chain for double hung window sashes, arc lamp chain, animal chain. Suitable for applications requiring flat metal chain operating over pulleys.

DO NOT USE FOR OVERHEAD LIFTING.

- **Low carbon steel.**
- **Flat stamped links.**
- **Packed 100 ft per carton.**
- **Sizes 30, 35 and 40 are also known as sizes 2, 3 and 4 Navy chain.**

BRASS SAFETY (PLUMBERS) CHAIN

TRADE SIZE	PART NUMBER	WORKING LOAD LIMIT LBS. †
2/0	**407376**	23
1/0	**407377**	35
1	**407378**	45

Specifically for plumbing fixtures. Suitable for many applicationsrequiring light flat metal chain.

DO NOT USE FOR OVERHEAD LIFTING.

- **Brass construction.**
- **Flat stamped links.**
- **Bright finish.**
- **Packed 100 ft per carton.**

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CHAIN & ASSEMBLIES and CABLE ACCESSORIES

STAINLESS STEEL CHAIN

- 316L stainless steel.
- Extremely corrosive resistant.
- Inhibits pitting caused by chlorides.
- Withstands corrosion attack by sodium and calcium brines, hypochlorite solutions, phosphoric acid, sulfite liquors and sulfurous acids.
- Order exact length needed.
- Priced per foot.
- Orders 70 lbs. and over must be shipped motor freight.

Food processing, chemical and marine applications. Use where non-magnetic, electrically welded, corrosion resistant chain is required.

DO NOT USE FOR OVERHEAD LIFTING

TRADE	PART NUMBER	WORKING LOAD LIMIT LBS. †
1/8	**407379**	410
9/32	**407381**	2000
5/16	**407382**	2400
3/8	**407383**	3550

BINDER CHAINS

- Meet latest DOT regulations.
- Chain is System 7 transport.
- Supplied with clevis grab hooks attached.
- Light weight chain with higher working load limits.
- 20 feet long.

Protected by YELLOW CHROMATE™ against rust & corrosion

Tying down trailer loads

DO NOT USE FOR OVERHEAD LIFTING

TRADE	PART NUMBER	WORKING LOAD LIMIT LBS. †
5/16	**407229**	4700
3/8	**407230**	6600

TOW CHAIN

- System 7 transport chain.
- Supplied with forged hooks.
- 16 feet long.

Protected by YELLOW CHROMATE™ against rust & corrosion

Towing, hauling, dragging.

DO NOT USE FOR OVERHEAD LIFTING

CHAIN SIZE	PART NUMBER	WORKING LOAD LIMIT (LBS.) †
5/16	**407226**	4700

CABLE PULLER

- Double drive ratchet wheels.
- Easy let-down releases.
- Cable is 3/16" galvanized aircraft type.
- Built-in safety handle is designed to bend if working limit is exceeded.
- Safety latches on both hooks.
- 1500 LBS. WORKING LOAD LIMIT. †
- 10-1/2 foot draw.
- Do not use to lift people, or loads over people.
- 3/4 ton lift, 1-1/2 ton pull cable puller.

Part No. 407209

LOAD BINDERS

E-Z RATCHET STYLE

Part No. 407211 - 5/16 Transport Chain & 3/8 High Test Chain

Part No. 407210 - 3/8 Transport Chain & 1/2 High Test Chain

- Alloy steel hooks, heat treated.
- Forged pawl for extra strength at ratchet wheel.
- Oversized steel links, resistance welded.
- Forged high strength eyebolts.
- Continuous take-up with safety and ease.
- 5400 LBS. WORKING LOAD LIMIT on 407211. †
- 9200 LBS. WORKING LOAD LIMIT on 407210. †

STANDARD LEVER STYLE (Forged)

Part No. 407212 - 5/16 Transport Chain

Part No. 407213 - 1/4 Proof Coil & High Test Chain

- Alloy steel hooks, heat treated.
- Knuckle saving handle design.
- Oversized steel links, resistance welded.
- High strength steel shackle.
- Heat treated drop forged handle.
- Ball and socket hook assembly provides straight-line tension.
- 5400 LBS. WORKING LOAD LIMIT on 407212. †
- 2600 LBS. WORKING LOAD LIMIT on 407213. †

FIELD I.D. TAG

- Steel tags imprint with metal stamp.
- OSHA requires that all slings be permanently marked with grade, rate capacity and reach, and serial number.
- Categories prestamped.

For all size chain and slings.

1-1/16" hole I.D.
1-1/2" x 4-1/8" x 5/32"

Part No. 521325 10

† **WARNING:** Do not exceed working load limit

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LOAD HUGGERS, TOW ROPE and LINKS

LOAD HUGGERS

NYLON RATCHET ASSEMBLY

- 5000 lb. Capacity.
- Type ra1-602.
- Heavy duty ratchet action.
- 18" fixed ends with flat hooks.

SIZE	PART NUMBER
2" x 15 ft	**521360**
2" x 20 ft	**521361**
2" x 27 ft	**521362**

WINCH STYLE CARGO STRAP

- Plated flat hook with 15000 lbs. stress.
- 12000 lbs. California rated.
- 15000 lbs. breaking strength.
- 5000 lbs.working load.
- Heavy duty weather resistant polyester

4" x 27 ft.
Part No. **521357**

WINCH

WELD ON
Part No. **521358**

PORTABLE
Part No. **521359**

TOW ROPE

These lightweight ropes and straps are easier to handle than chain. They will not rust, scratch or rattle; cannot be damaged by oil, gasoline, grease or weather; and stretch to absorb shock.

5/8" x 12-1/2 ft.
Part No. **315201**

TYPE	BREAKING STRENGTH	ACCESSORIES
Braided	6500 lbs.	Slip hooks
Polypropylene		Protector grip

1-3/4" x 15 ft.
Part No. **315202**

TYPE	BREAKING STRENGTH	ACCESSORIES
Braided	6500 lbs.	Slip hooks
Polypropyl		

CHAIN LINKS

OVAL SHAPE

CHAIN SIZE	PART NUMBER	QTY	WORKING LOAD LIMIT (LBS.) †
1/4	**52138**	2	1400
5/16	**52139**	2	2000
3/8	**52140**	2	2800
7/16	**52141**	2	3625
1/2	**52142**	2	4750
5/8	**52143**	1	7250
3/4	**52144**	1	10250
7/8	**521243**	1	12000
1	**521244**	1	15500
1-1/4	**521245**	1	24000

For temporary chain repair.

- Drop forged, heat treated carbon steel.
- Meet design requirements for Federal specification RR-C-271D Type II.
- No special tools required.
- Design factor: 4 to 1.

Protected by
LUSTERPLATE™
against rust & corrosion

PEAR SHAPE

CHAIN SIZE	PART NUMBER	QTY	WORKING LOAD LIMIT (LBS.) †
3/8	**521246**	1	1850
1/2	**521247**	1	3300
5/8	**521248**	1	5000
3/4	**521249**	1	7100
7/8	**521250**	1	9600

MASTER LINKS

CHAIN SIZE	PART NUMBER	QTY	WORKING LOAD LIMIT (LBS.) †
3/4	**521252***	1	9000

*This item will be discontinued when stock is depleted.

- Drop forged, alloy steel.
- Heat treated.
- Orange paint finish.

SECURITY COUPLING LINKS

CHAIN SIZE	PART NUMBER	QTY	WORKING LOAD LIMIT (LBS.) †
9/32	**521237***	1	3500
3/4	**521241***	1	28300

*This item will be discontinued when stock is depleted.

- Once attached; the link must be burned or cut off.
- Cannot be disassembled with punch and hammer.
- Self colored.

† **WARNING:** Do not exceed working load limit

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LINKS, CHAIN and WIRE ROPE HARDWARE

REPAIR AND LAP LINKS

For temporary chain repair and coupling of attachments.

- Low steel.

DO NOT USE FOR OVERHEAD LIFTING

Protected by BLU-KROME™ against rust & corrosion

SIZE	PART NUMBER	QTY	WORKING LOAD LIMIT (LBS.) †
1/8 x 3/4	**52224**	6	190
3/16 x 1	**52217**	6	240
1/4 x 1-1/4	**52218**	6	400
1/4 x 2	**52219**	6	400
5/16 x 1-1/2	**52220**	6	950
5/16 x 2*	**52227**	6	1000
3/8 x 1-5/8	**52221**	6	1250
3/8 x 2	**52228**	6	1250
1/2 x 2-1/2	**52222**	6	2125

COLD SHUT

For temporary chain repair and coupling of attachments.

- Mild steel.
- Use one size larger when used with chain.
- Do not reuse.

DO NOT USE FOR OVERHEAD LIFTING

Protected by BLU-KROME™ against rust & corrosion

SIZE	PART NUMBER	QTY	WORKING LOAD LIMIT (LBS.) †
3/16	**521242**	2	450
1/4	**52131**	2	750
5/16	**52132**	2	1250
3/8	**52133**	2	1900
7/16	**52134***	2	2650
1/2	**52135**	2	3500
5/8	**52136***	1	4500
3/4	**52137***	1	6900

*This item will be discontinued when stock is depleted.

QUICK LINKS

Use as a repair link, connecting link, or attaching device.

- Reusable
- Fast and easy-no tools needed.
- Nut screws into place.
- Threaded end diameter exceeds link diameter to prevent deformation or breakage of threads under stress.

Protected by LUSTERPLATE™ against rust & corrosion

SIZE	PART NUMBER	QTY	WORKING LOAD LIMIT (LBS.) †
1/8	**52211**	6	180
3/16	**52212**	6	750
1/4	**52213**	6	1250
5/16	**52214**	6	1900
3/8	**52215**	6	2650
1/2	**52216**	6	4500

ALUMINUM CABLE FERRULES & STOPS

CABLE SIZE	PART NUMBER	QTY
1/16	**521316**	10
3/32	**521317**	10
1/8	**521318**	10
3/16	**521319**	10
1/4	**521320**	10

Swage tool No. 2
Sizes 1/16 to 1/8

Part No. 521321

Swage tool No. 3
Sizes 1/8 to 1/4

Part No. 521322

18" Swage tool
Sizes 1/16 to 3/16

Part No. 521323

EYE AND EYE SWIVELS

- Drop forged carbon steel.
- Galvanized for additional corrosion resistance.
- Design factor 5 to 1.
- Meets federal spec. RR-C-271-Type VII Class 2.

SIZE	PART NUMBER	WORKING LOAD LIMIT (LBS.) †
1/4	**521277**	850
5/16	**521278**	1250
3/8	**521279**	2250
1/2	**521280**	3600
5/8	**521281**	5200
3/4	**521282**	7200
7/8	**521283**	10000
1	**521284**	12500
1-1/4	**521285**	18000

DOUBLE CLEVIS

Use with proof coil chain & high test chain.

- Forged, heat treated, tempered steel.
- Easy to install and remove.

Protected by BLU-KROME™ against rust & corrosion

CHAIN SIZE	PART NUMBER	WORKING LOAD LIMIT (LBS.) †
1/4 or 5/16	**52179**	3900
3/8	**52180**	5400
7/16 or 1/2	**52181**	9200

WIRE ROPE CLIPS

MALLEABLE IRON

- Malleable iron casting meets ASTM A-47 specification.
- Clips meet specification FF-C-450, TYPE L, CLASS 2.
- Complete with hex nuts.

Protected by LUSTERPLATE™ against rust & corrosion

SIZE	PART NUMBER	QTY
1/8	**52145**	10
3/16	**52148**	10
1/4	**52149**	10
5/16	**52150**	10
3/8	**52151**	10
1/2	**52152**	2
5/8	**52153**	2
3/4	**52154**	1
7/8	**52155**	1
1	**52156**	1

FORGED CARBON STEEL

- Galvanized for added corrosion resistance.
- Meets specification FF-C-450,type I, class 1
- Complete with heavy hex nuts.

SIZE	PART NUMBER	QTY
1/8	**521232**	2
3/16	**521233**	2
1/4	**521234**	2
5/16	**521235**	2
3/8	**52157**	2
1/2	**52158**	2
5/8	**52159**	2
3/4	**52160**	1
7/8	**52161**	1
1	**52162**	1
1-1/8	**521236**	1

WIRE ROPE THIMBLES

- Made of hot rolled mild steel.
- Meets federal specification FF-T-276b, type II.
- Galvanized for added corrosion resistance.

SIZE	PART NUMBER	QTY
1/8	**52201**	6
3/16	**52202**	6
1/4	**52203**	6
5/16	**52204**	6
3/8	**52205**	6
1/2	**52206**	6
5/8	**52207**	6
3/4	**52208**	6
7/8	**52209**	6
1	**52210**	6

† **WARNING:** Do not exceed working load limit

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WIRE ROPE, HDWE., CABLE ACC. and GRAB HOOKS

VINYL COATED WIRE ROPE (AIRCRAFT CABLE)

WIRE DIA.	COATED DIA.	CONST.	PART NUMBER	BREAKING STRENGTH (LBS.)
3/32	1/8	7 x 7	**407170**	920
1/8	3/16	7 x 7	**407171**	1700
3/16	1/4	7 x 19	**407172**	4200
1/4	5/16	7 x 19	**407173**	7000

Garage doors, boats, farm, industry, construction, 1001 uses.

- 7 x 7 class - 7 strands. Contains 7 wires each - preformed.
- 7 x 19 class - 7 strands. Contains 19 wires each - preformed.
- Extra flexible - high quality.
- Galvanized to prevent rust.
- Vinyl coating is more resistant to abrasion and weathering.
- Easily cleaned.
- Sold by the foot. - Custom cut to meet your requirements.

WIRE ROPE (AIRCRAFT CABLE)

DIA.	PART NUMBER	BREAKING STRENGTH (LBS.)
3/32	**407160**	1000
1/8	**407161**	2000
5/32	**407162**	2800
3/16	**407163**	4200
7/32	**407164**	5600
1/4	**407165**	7000
9/32	**407166**	8000
5/16	**407167**	9800
3/8	**407168**	14400

Garage doors, boats, farm, industry, construction, 1001 uses.

- 7 x 19 class - 7 strands. Contains 19 wires each - preformed.
- Extra flexible - high quality.
- Galvanized to prevent rust.
- Sold by the foot. - Custom cut to meet your requirements.

CLEVIS STYLE GRAB HOOK

CARBON STEEL

- Drop forged carbon steel.
- Not recommended for overhead use.

CHAIN SIZE	PART NUMBER	WORKING LOAD LIMIT † (LBS.)
1/4	**52121**	2600
5/16	**52122**	3900
3/8	**52123**	5400
1/2	**52125**	9200
5/8	**521216**	11500

ALLOY STEEL

Used with System 7 and 8 chain.

- Painted orange for easy identification.
- Stamped "ALLOY".

CHAIN SIZE	PART NUMBER	WORKING LOAD LIMIT † (LBS.)
1/4	**521225**	4100
5/16	**521226**	5100
3/8	**521227**	7100
7/16	**521228**	10000
1/2	**521229**	12000
5/8	**521230**	18100
3/4	**521231**	28300

SLIP HOOKS

CLEVIS TYPE

- Drop forged steel.
- Heat treated carbon or alloy steel.
- Use clevis type w/high test or low test carbon chain.
- Eye type for use with low carbon chain only.
- NOT RECOMMENDED FOR OVERHEAD USE.

	CARBON STEEL		ALLOY STEEL	
CHAIN SIZE	PART NUMBER	WORKING LOAD LIMIT † (LBS.)	PART NUMBER	WORKING LOAD LIMIT † (LBS.)
1/4	**52182**	2600	**521208***	4100
5/16	**52183**	3900	**521209***	5100
3/8	**52184**	5400	**521210***	7100
7/16	**---**	--	**521211**	10000
1/2	**52186**	9200	**521212**	13000
5/8	**521200**	11500	**521213**	20300

*Hooks have pre-drilled hole for latch kits on page A20-9.

EYE TYPE

- Drop forged carbon or alloy steel.
- Meets design requirements for Federal specification RR-C-271.

CHAIN SIZE	PART NUMBER	WORKING LOAD LIMIT † (LBS.)
1/4	**521218**	4100
5/16	**521219**	5100
3/8	**521220**	7100
1/2	**521222**	12000

SNAP HOOKS W/ SAFETY LATCHES

- Heat treated drop forged carbon steel.
- Galvanized for extra corrosion resistance.
- Used with proof coil chain.
- Design factor 5 to 1.

HOOK SIZE	PART NUMBER	EYE SIZE	WORKING LOAD LIMIT (LBS.) †
7/16	**407216**	3/4	750
9/16	**407218**	1-1/8	1000

EYE HOIST HOOKS W/ SAFETY LATCH

- Heat treated drop forged alloy steel.
- Orange.
- Used with proof coil chain.
- Working load limit 2 tons. †
- Suitable for overhead lifting.
- Eye size 1-1/8, hook size 1-1/32.
- Industry #24.
- Design factor 5 to 1.

Part No. **407214**

ANCHOR SHACKLES

- Bodies are drop forged carbon steel.
- Screw pins and round pins are alloy steel.

SCREW PIN

Meets Federal specification RR-C-271, TYPE IV, CLASS 1
Galvanized for added corrosion resistance.

SIZE.	PART NUMBER	WORKING LOAD LIMIT (TONS)†
3/16	**521264**	1/3
1/4	**52192**	1/2
5/16	**52193**	3/4
3/8	**52194**	1
7/16	**52195**	1-1/2
1/2	**521265**	2
5/8	**521266**	3-1/4
3/4	**52146**	4-3/4
7/8	**52147**	6-1/2
1	**521267**	8-1/2
1-1/8	**521268**	9-1/2
1-1/4	**521269**	12
1-1/2	**521270**	17

† **WARNING:** Do not exceed working load limit

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TURNBUCKLES, EYE BOLTS and J-BOLTS

STEEL TURNBUCKLES

- **Drop forged carbon steel.**
- **Galvanized for added corrosion resistance.**

HOOK AND EYE

Meets Federal specifications FF-T-791, TYPE L, FORM L, CLASS 6

DIAMETER x TAKE-UP	PART NUMBER	WORKING LOAD LIMIT (LBS.)†
1/4 x 4	**521304**	400
5/16 x 4-1/2	**521305**	700
3/8 x 6	**521306**	1000
1/2 x 6	**521307**	1500
1/2 x 9	**521308**	1500
1/2 x 12	**521309**	1500

EYE AND EYE

Meets Federal specifications FF-T-791, TYPE L, FORM L, CLASS 4

DIAMETER x TAKE-UP	PART NUMBER	WORKING LOAD LIMIT (LBS.)†
5/16 x 4-1/2	**521287**	800
3/8 x 6	**521288**	1200
1/2 x 6	**521289**	2200
1/2 x 9	**521290**	2200
1/2 x 12	**521291**	2200
5/8 x 6	**521292**	3500
3/4 x 6	**521294**	5200

ALUMINUM TURNBUCKLES

- **Aluminum bodies.**
- **Lusterplated steel hook and eyes.**

HOOK AND EYE

Meets Federal specifications FF-T-791, TYPE L, FORM L, CLASS 6

DIAMETER x TAKE-UP	PART NUMBER	QTY
5/16 x 2-5/8	**521313**	5
3/8 x 3	**521314**	5
3/8 x 6	**521315**	5

LAG SCREW THREAD EYE BOLTS

- **Gimlet point.**
- **Low carbon steel.**

Protected by LUSTERPLATE™ against rust & corrosion

SIZE DIA. x LENGTH	PART NUMBER	QTY
3/16 x 3	**706628**	10
1/4 x 3-3/4	**706629**	10
1/4 x 5	**706630**	10
5/16 x 4	**706631**	10
5/16 x 5	**706632**	10
5/16 x 6	**706633**	10
3/8 x 4-1/2	**706634**	5
3/8 x 6	**706635**	5
3/8 x 8	**706636**	5
7/16 x 5-1/4	**706637**	5

SCREW EYES

TRADE SIZE	PART NUMBER	WIRE DIA. INCHES	OVERALL LENGTH INCHES	QTY
14	**521326**	.080	15/16	50
12	**521327**	.105	1-1/8	50
10	**521328**	.135	1-5/16	50
.158	**521329**	.158	1-9/16	50
6	**521330**	.192	1-13/16	25
4	**521331**	.225	2-1/16	25

FORGED EYE BOLTS

- **Drop forged carbon steel.**
- **Galvanized for superior corrosion protection.**
- **USS coarse threads.**

DIAMETER x TAKE-UP	PART NUMBER	WORKING LOAD LIMIT (LBS.)†	QTY
1/4-20 x 2	**706615**	550	2
1/4-20 x 4	**706616**	550	2
5/16-18 x 2-1/4	**706617**	850	2
5/16-18 x 4-1/4	**706618**	850	2
3/8-16 x 2-1/2	**706619**	1250	2
3/8-16 x 4-1/2	**706620**	1250	2
3/8-16 x 6	**706621**	1250	2
1/2-13 x 3-1/4	**706622**	2250	2
1/2-13 x 6	**706623**	2250	1
5/8-11 x 4	**706624**	3600	1
5/8-11 x 6	**706625**	3600	1
3/4-10 x 4-1/2	**706626**	5200	1
3/4-10 x 6	**706627**	5200	1

LIFTING EYE BOLTS

- **65000 psi minimum tensile strength.**
- **Meets ASTM A489 specs and ANSI B18.15.**
- **USS coarse threads.**
- **Heat treated C-1030 steel.**
- **DESIGNED FOR OVERHEAD LIFTING.**

Protected by BLACK OXIDE FINISH™ against rust & corrosion

SIZE DIA. x LENGTH	PART NUMBER	RATED CAPACITY (LBS.)†	QTY
1/4 x 1	**706638**	500	2
5/16 x 1-1/8	**706639**	900	2
3/8 x 1-1/4	**706640**	1300	2
1/2 x 1-1/2	**706641**	2400	2
5/8 x 1-3/4	**706642**	4000	2
3/4 x 2	**706643**	5000	1
7/8 x 2-1/4	**706644**	7000	1
1 x 2-1/2	**706645**	9000	1

CAUTION: ANGULAR LIFTS SHOULD BE AVOIDED

BENT EYE BOLTS WITH HEX NUTS

- **Low carbon steel.**
- **USS Coarse threads.**

SIZE DIA. x LENGTH	PART NUMBER	QTY
1/4 x 2	**507120**	25
1/4 x 2-1/2	**507121**	25
1/4 x 3	**507122**	25
1/4 x 4	**507123**	25
5/16 x 3-1/4	**507124**	25
5/16 x 4	**507125**	25
5/16 x 5	**507128**	25
3/8 x 4	**507126**	25
3/8 x 6	**507127**	25

Sizes: 1/4" x 2" through 3/8" x 6"
Part No. 507005
27 pieces • 6 items
12047 plastic tray

507120 507123 507125
507122 507124 507126
Numbers in assortment

J-BOLTS WITH HEX NUTS

- **Low carbon steel.**
- **USS Coarse threads.**

SIZE DIAMETER x LENGTH	PART NUMBER	QTY
3/16 x 1-78	**706600**	10
7/32 x 2-1/8	**706601**	10
1/4 x 2-5/16	**706602**	10
1/4 x 4	**706603**	10
1/4 x 5	**706604**	10
1/4 x 6	**706605**	10
5/16 x 3	**706606**	10
5/16 x 5	**706608**	10
5/16 x 6	**706609**	10
5/16 x 7	**706610**	5
3/8 x 3-3/4	**706611**	10
3/8 x 5	**706612**	10
3/8 x 7	**706613**	5
1/2 x 6	**706614**	5

† **WARNING:** Do not exceed working load limit

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HOOKS, SNAPS and LATCH KITS

"INFINITY" S-HOOKS

More secure and easier to use than traditional"S" or "8"-hooks!

Connect chain, cable assemblies, & other components quickly and securely!

- Increases safety!
- Quick connector.
- Easy on & off.
- No tools needed.
- Secure.
- Tangle-free storage.
- Reusable.
- Save time & labor.

INFINITE POSSIBILITIES!!

PART NUMBER	WIRE DIAMETER (INCHES)	LENGTH (INCHES)	QTY
507119	.120	2.56	25

IT'S A SNAP

- Attach chain or other component
- "Snap" into place! Stays secure!
- "Snap" out to remove!

UNIVERSAL SAFETY LATCH KITS

Used on sling, eye, hoist and snap hooks.

- Universal kits fit Campbell as well as competitive hooks, including Crosby and Midland, that are drilled for latches.
- Spring spacer adapts latch to hooks with narrow cam.
- Bolt and nut permit fast, easy installation.

PART NUMBER	HOOK SIZE	INCH SIZE	QTY
521390	2-22	1/4	2
521391	3-23	5/16	2
521392	4-24	--	2
521393	5-25	3/8	2
521394	7-27	--	2

PART NUMBER	HOOK SIZE	INCH SIZE	QTY
521395	9-29	1/2	1
521396	11-31	5/8	1
521397	12-32	--	1
521398	34	--	1

S HOOKS

- Low carbon steel.
- USS Coarse threads.

* Style may vary. See picture in lidchart.

OVERALL LENGTH	PART NUMBER	WIRE DIA./GAUGE	QTY
3/4	**507129**	.091	25
7/8	**507135**	.093	25
1	**507130**	.120	25
1-1/16	**507136**	.080	25
1-3/32	**507137**	.105	25
1-1/4	**507131**	.148	25
1-5/16	**507138**	.120	25
1-1/2	**507132**	.177	25
1-9/16	**507139***	.135	25
1-3/4	**507133**	.192	25
2	**507140***	.177	25
2	**507134**	.250	25
2-1/4	**507142**	.250	25
2-1/2	**507143**	.307	25
2-3/4	**507141**	.188	25
3	**507148**	.307	10

Part No. 507004
105 pieces • 6 items
12047 plastic tray

507135 507138 507140
507137 507139 507141

Numbers in assortment

CEILING HOOKS

Light fixtures, suspended ceilings.
Used with wire rope, weldless chain, rubber rope, nylon rope.

- Low carbon steel wire.

TRADE SIZE	PART NUMBER	WIRE DIA. INCHES	OVERALL LENGTH INCHES	QTY
14	**521332**	.080	1-5/16	50
12	**521333**	.105	1-11/16	50
10	**521334**	.135	2-1/16	50
.158	**521335**	.158	2-9/16	50
6	**521336**	.192	3-3/8	25
4	**521337**	.225	3-7/8	25

Protected by LUSTERPLATE™ against rust & corrosion

SNAP PEAR HOOKS

USE WITH LOW CARBON CHAIN ONLY.

- Low carbon steel.
- Fast, easy attachment for permanent or temporary connection.

PART NO. BRITE ZINC	TRADE SIZE (INCHES)	DIAMETER (INCHES)	DIAMETER (MM)	DIMENSIONS (INCHES) A	B	C	X	WORKING LOAD LIMITS (LBS)	PKG
52240	1/4	0.225	6.0	2.362	0.689	0.295	0.276	260	10 /ctn
52241	5/16	0.305	8.0	3.150	0.945	0.413	0.413	500	10 /ctn
52242	3/8	0.345	9.0	3.543	1.063	0.492	0.433	550	10 /ctn

SNAPS

SWIVEL EYE BOLT SNAP

- Nickel plated steel.
- Stainless steel spring.

A EYE SIZE	PART NUMBER	B OVERALL LENGTH	C SNAP OPENING	QTY
1/2	**407175**	2-15/16	5/16	2
5/8	**407176**	3-1/2	3/8	2
3/4	**407177**	3-11/16	3/8	2
1	**407178**	4-1/4	1/2	2

FIXED EYE SNAP HOOK

- Nickel plated steel.

A EYE SIZE	PART NUMBER	B OVERALL LENGTH	C SNAP OPENING	QTY
5/8	**407187**	3-1/2	9/16	2

SWIVEL EYE TRIGGER SNAP

- Nickel plated steel.

A EYE SIZE	PART NUMBER	B OVERALL LENGTH	C SNAP OPENING	QTY
1/2	**407183**	2-1/2	3/8	2

DOUBLE END BOLT SNAP

- Nickel plated steel.
- Stainless steel spring.

A EYE SIZE	PART NUMBER	B OVERALL LENGTH	QTY
3/8	**407179**	4	2
7/16	**407180**	4-5/8	2

BRONZE QUICK SNAP SWIVEL EYE

- Excellent for outdoor use.
- Rust free.

A EYE SIZE	PART NUMBER	B OVERALL LENGTH	C SNAP OPENING	QTY
5/8	**407185**	3-5/16	5/16	2
3/4	**407186**	4-1/2	9/16	2

OPEN END BOLT SNAP

- Nickel plated cast malleable iron.
- Stainless steel spring.
- Eye can be closed with hammer.

A EYE SIZE	PART NUMBER	B OVERALL LENGTH	C SNAP OPENING	QTY
3/8	**407181**	3-1/2	13/32	2
1/2	**407182**	4	7/16	2

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ROPE & ROPE HOOKS

NYLON ROPE

Used with pulleys, winches, tie-downs.

- Solid braided nylon.
- Color - natural.
- Will not mildew.

DIAMETER	PART NUMBER	EST. BREAK STRENGTH (LBS)*	SUGGESTED WORKING LOAD (LBS)*	QTY
3/16	**521363**	850	85-128	1000
1/4	**521364**	1200	120-180	500
5/16	**521365**	1775	178-266	175
3/8	**521366**	2100	210-315	150

POLYPROPYLENE ROPE

Used for barriers, tents, anchors, tie-downs, utility rope.

- Strong and lightweight. Resists mildew, chemicals & marine organisms.
- Floats.
- Color - transportation yellow.
- Diamond braided monofilament construction.

DIAMETER	PART NUMBER	EST. BREAK STRENGTH (LBS)*	SUGGESTED WORKING LOAD (LBS)*	QTY
3/8	**521367**	2000	200	500
1/2	**521368**	3000	300	500

***Estimated break strengths and working loads only. Whenever life, limb, or property are involved, ropes should be thoroughly tested.**

POLISHED COTTON TWINE

General purpose.

No. 60
1/2 lb ball
(approx 300 ft.)

Part No. 521369

CHALK & MASON TWINE

Chalk lines, mason lines, tying fish and net line, outline, canvas lacing.

No. 21
1/2 lb ball
(approx 400 ft.)

Part No. 521370

RUBBER ROPE

Make your own tie downs.

- Fast and easy - just cut desired length and fasten steel hook.
- Durable - manufactured of Dupont Neoprene®.
- Easily adjustable length.
- Stretchable - uniform tension prevents tarp damage.

RUBBER ROPE KIT

Contains 7/16" x 50' roll, 10 hooks

Part No. 918110

RUBBER ROPE

7/16" x 150' roll, hooks not included

Part No. 91811

EYE HOOKS

Lusterplated

Part No. 918112 50

ROPE RATCHET™

Firmly secures boxes, crates, tarps, pallets, and assorted cargo in place.

- Quickly secure items TIGHTLY, without slipping.
- Releases with thumb lever.
- No complicated knots to tie, un-tie.
- Will not stretch like elastic cords.
- Made of tough, weather resistant nylon for years of hard use Unaffected by weather.
- 4 different sizes available.
- Will work with comparable size rope or cord.
- Complete with hooks and rope.
- Easy to use, just hook ratchet and cord hook in place and pull free end of cord. Ratchet automatically locks cord in place so it will not slip back. To loosen just press the release lever.

SIZE	PART NUMBER	MAX. LOAD
1/8 x 6 ft.	**521377**	75 lbs.
1/4 x 10 ft.	**521378**	150 lbs.
3/8 x 10 ft.	**521379**	250 lbs.
1/2 x 10 ft.	**521374**	500 lbs.

ROPE HOOKS

Protected by
LUSTERPLATE™
against rust & corrosion

ROPE BINDING

- Manufactured of high quality steel.
- Pre-drilled holes for easy mounting.

PART NUMBER	OVERALL LENGTH A	HOOK OPENING B	HOOK LENGTH C	WIRE SIZE D	WIDTH E	THKS F	HOLE DIA. G	QTY
418245	3-3/4	1	1-5/8	3/8	9/16	3/16	1/4	6
418246	4-7/8	1-1/8	1-3/4	3/8	19/32	13/64	5/16	6

SNAP-BACK

- Swings out of the way automatically when not in use.
- Full 180° pivot allows easy mounting, maximum efficiency, ease of use.
- Constructed of solid steel.

PART NUMBER	OVERALL LENGTH A	HOOK OPENING	HOOK LENGTH B	WIRE SIZE	HOLE DIA.	QTY
418247	2-3/4	3/4	1-3/8	5/16	1/4	3

RECESSED

- Pan recessed 3/8 to allow mounting direct to truck body or trailer body cross members.
- For use in 3/8 plywood.
- Zinc plated steel.
- 3 mounting holes for added strength.

Part No. 418217 3

A20

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NYLON SLINGS and ADJUSTABLE STRAPS

HEAVY DUTY INDUSTRIAL NYLON SLINGS

Used as vertical, choker and basket type hitches.

- **Resistance to alkalis.**
- **Contains red warning yarns.**
- **Subject to damage by sharp edges.**
- **Meets OSHA regulations; 1910 .184 :ANSI: B-39**

FLAT EYE SLINGS

2-ply

WIDTH X LENGTH	PART NUMBER	RATED VERTICAL	CAPACITIES IN LBS. CHOKER	BASKET
2"x 3 ft.	**521342**	6400	4800	12800
2"x 6 ft.	**521343**	6400	4800	12800
2"x 8 ft.	**521344**	6400	4800	12800
2"x 10 ft.	**521345**	6400	4800	12800
3"x 8 ft.	**521346**	8600	6500	17200
3"x 10 ft.	**521347**	8600	6500	17200

1-ply

WIDTH X LENGTH	PART NUMBER	RATED VERTICAL	CAPACITIES IN LBS. CHOKER	BASKET
1"x 8 ft.	**521338**	1600	1200	3200
1"x 10ft.	**521339**	1600	1200	3200
2"x 8 ft.	**521340**	3200	2400	6400
2"x 10 ft.	**521341**	3200	2400	6400

TRIANGLE-CHOKER - STEEL ATTACHMENTS

1-ply

WIDTH X LENGTH	PART NUMBER	RATED VERTICAL	CAPACITIES IN LBS. CHOKER	BASKET
2"x 8 ft.	**521352**	3200	2400	6400
2"x 10 ft.	**521353**	3200	2400	6400

TWISTED EYE SLING

1-ply

WIDTH X LENGTH	PART NUMBER	RATED VERTICAL	CAPACITIES IN LBS. CHOKER	BASKET
1"x 8 ft.	**521348**	1600	1200	3200
1"x 10 ft.	**521349**	1600	1200	3200
2"x 8 ft.	**521350**	3200	2400	6400
2"x 10 ft.	**521351**	3200	2400	6400

ENDLESS

2-ply

WIDTH X LENGTH	PART NUMBER	RATED VERTICAL	CAPACITIES IN LBS. CHOKER	BASKET
2"x 3 ft.	**521354**	9600	7700	19200
2"x 6 ft.	**521355**	9600	7700	19200
2"x 10 ft.	**521356**	9600	7700	19200

HEAVY DUTY TARP STRAPS

- **Heavy duty molded EDPM rubber, with double thick reinforced ends.**
- **Weather resistant for longer life.**
- **"Live" wire, lusterplated "S" hooks.**

PART NUMBER	RUBBER LENGTH (INCHES)	STRETCHES (INCHES)	QTY
918101	9	19	10
918102	15	26	10
918103	20	34	10
918104	31	48	10
918105	41	65	10

Part No. 918100
14 pieces • 5 items

918101 **918104**
918102 **918105**
918103

Numbers in assortment

POLYETHYLENE TARPAULIN

Covers and protects motors, equipment, seed, fertilizers, dirt,construction materials, boats, recreational equipment, truck loads. Used by farms, nurseries, truck and fleet operations, marinas, construction companies, municipalities, schools, and RV's.

- **100% waterproof and mildew proof.**
- **Ultra-violet retardant.**
- **Strong woven 8 x 10 nylon strand grid per square inch.**
- **Tear resistant.**
- **Washable.**
- **Aluminum grommets, reinforced hemmed edges.**

CUT SIZE	PART NUMBER
8' x 10'	**918125**
10' x 12'	**918126**
10' x 16'	**918127**
12' x 16'	**918128**

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PILLOW BLOCKS and EQUIPMENT PINS

BALL BEARING PILLOW BLOCKS

Provides support & mounting versatility for power transmission shafts.

TECHNICAL DATA:

PART NUMBER	SHAFT DIA.	BOLT USED
407150	3/4	3/8
	20mm	10mm
407151	1	3/8
	25mm	10mm
407152	1-1/4	1/2
	35mm	14mm
407153	1-1/2	1/2
	40mm	14mm
407154	1-3/4	1/2
	45mm	14mm
407155	2	5/8
	55mm	16mm

LIFT ARM BUSHINGS

- **Allows use of unmatched equipment categories without changing lift arm pins..**

ID	PART NUMBER	QTY	OD	OVERALL LENGTH	CATEGORY
7/8	**606136**	2	1-1/8	1-3/4	2 - 1
1-1/8	**606137**	2	1-7/16	1-3/4	3 - 2

LIFT ARM PINS

- **Forged from high strength steel.**
- **Minimum yield strength 60000 psi.**

Protected by LUSTERPLATE™ against rust & corrosion

DIA.	PART NUMBER	QTY	THREAD	OVERALL LENGTH	CATEGORY
5/8	**606124**	2	5/8–18	4	0
7/8	**606125**	2	7/8–14	5-1/4	1
1-1/8	**606126**	2	1-1/8–12	6-1/4	2
1-1/8	**606127**	2	7/8–14	5-1/4	1 to 2
1-7/16	**606128**	1	1-1/8–12	6-1/2	2 to 3

PTO LOCK PINS

Power take off pins on farm equipment.

- **Quick connect and disconnect with a position lock.**
- **Minimum yield strength 50,000 psi.**

Protected by LUSTERPLATE™ against rust & corrosion

PIN DIA. (A)	USABLE LENGTH (B)	ROUND HANDLE PART NO.	SQUARE HANDLE PART NO.
1/4	1-3/8	**606140**	---
1/4	1-3/4	**606141**	---
1/4	2-1/4	---	**606129**
1/4	2-1/2	**606142**	**606130**
5/16	1-3/8	**606143**	---
5/16	1-3/4	**606144**	---
5/16	2-1/4	---	**606131**
5/16	2-1/2	---	**606132**
3/8	1-3/8	**606145**	---
3/8	1-3/4	**606146**	---
3/8	2-1/4	---	**606133**
3/8	2-1/2	**606147**	**606134**

HITCH PINS

- **Manufactured of high strength heat treated, stress relieved alloy steel.**
- **Minimum yield strength 100,000 psi.**

Protected by LUSTERPLATE™ against rust & corrosion

SNAP LOCK HITCH PINS

Stays locked.

DIA. (A)	PART NUMBER	USABLE LENGTH (B)
1/2	**606114**	3-1/2
5/8	**606115**	4
3/4	**606116**	4

HAIR PIN HITCH PINS

- **Large full size handle.**
- **Hair pin cotter included-provides positive lock.**

DIA. (A)	PART NUMBER	USABLE LENGTH (B)	RPL HAIRPIN
1/2	**606100**	3-1/2	51866
5/8	**606101**	4-1/2	51869
5/8	**606102**	6	51869
3/4	**606103**	4-1/2	51869
3/4	**606104**	6	51869
7/8	**606105**	4-1/2	51869
7/8	**606106**	6	51869
1	**606107**	4-1/2	51869
1	**606108**	6	51869

TENSION LOCK HITCH PINS

Spring holds tension lock where you put it.

DIA. (A)	PART NUMBER	USABLE LENGTH (B)	QTY
3/8	**606150**	2-3/4	2
1/2	**606151**	3-1/2	2
5/8	**606152**	3-1/2	2
3/4	**606153**	3-1/2	2
3/4	**606154**	6	2
13/16	**606155**	6-1/4	2
7/8	**606156**	3-1/2	2
7/8	**606157**	6	2
1	**606158**	3-1/2	2
1	**606159**	6	2

LYNCH PIN HITCH PINS

- **Includes Lynch pin.**

DIA. (A)	PART NUMBER	USABLE LENGTH (B)	QTY
1/2	**606160**	4	2
1/2	**606161**	5-3/4	2
5/8	**606162**	4	2
5/8	**606163**	5-3/4	2
3/4	**606164**	4	2
3/4	**606165**	6-1/4	2
7/8	**606166**	7	2
1	**606167**	7	2

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EQUIPMENT PINS, ROLLER CHAIN and CHAIN PLIERS

LYNCH PINS

- Forged for maximum strength - won't bend or break.
- Minimum yield strength 50,000 psi.
- Self locking ring allows the pin to be held securely in place.
- Ring provides easy grip for a quick removal.

Protected by LUSTERPLATE™ against rust & corrosion

STANDARD PINS

PIN DIA. (A)	USABLE LENGTH (B)	PART NO. W/O CHAIN	PART NO. W/CHAIN
3/16	1-1/4	**606120**	**606109**
1/4	1-1/4	**606121**	**606110**
5/16	1-1/4	**606123**	**606111**
7/16	1-3/8	**606122**	**606112**

Part No. 501601
150 pieces • 9 items
12051 steel tray

51794	51863	606121
51796	51866	606122
51857	51869	606123

Numbers in assortment

HEAVY SERIES ROLLER CHAIN

- Pre-lubricated.
- Meets ANSI specifications.
- Interchange with ANSI chains already in use.
- Packed 10 feet per box.

ANSI NO.	PART NUMBER	PITCH P	AVERAGE ULTIMATE STRENGTH LBS
60H	**407131**	3/4	8500
80H	**407132**	1	14500
100H	**407133**	1-1/4	24000
120H	**407134**	1-1/2	34000

REPAIR LINKS

CONNECTING LINKS PART NUMBER	OFFSET LINKS PART NUMBER	QTY
407135	**407139**	2
407136	**407140**	2
407137	**407141**	2
407138	**407142**	1

DRIVE CHAIN

- Pre-lubricated.
- Meets ANSI specifications.
- Interchange with ANSI chains already in use.
- Packed 10 feet per box.

ANSI NO.	PART NUMBER	PITCH P	AVERAGE ULTIMATE STRENGTH LBS
A2040	**407188**	1	3700
A2050	**407189**	1-1/4	6100
A2060	**407190**	1-1/2	8500

REPAIR LINKS

CONNECTING LINKS PART NUMBER	OFFSET LINKS PART NUMBER	QTY
407191	**407194**	5
407192	**407195**	5
407193	**407196**	5

CHAIN BREAKER

Disconnects any chain quickly & easily.

- Takes chains apart without the use of hammers or punches.

FOR CHAINS	PART NUMBER
# 25 TO # 60	**407122**
# 60 TO # 100	**407123**
# 120 TO # 160	**407121**

SINGLE STRAND, RIVETED ROLLER CHAIN

For chain driven power transmissions, snowmobiles, motorcycles, bicycles, go-carts, aqua-cats, home snowplows, printing presses, mining, industrial, farm and agricultural equipment.

- Heat treated steel pre-lubricated, longer lasting.
- Meets ANSI specifications. Interchangeable with chains in use.
- Packed 10 feet per box. Includes connecting link.

Protected by LUSTERPLATE™ against rust & corrosion

*Chain is rollerless. Dimension shown is bushing diameter.

ANSI NO.	PART NUMBER	PITCH P	AVERAGE ULTIMATE STRENGTH LBS.
*35	**407101**	3/8	2300
41	**407127**	1/2	2400
40	**407102**	1/2	3800
50	**407103**	5/8	6600
60	**407104**	3/4	9400
80	**407105**	1	15400
100	**407100**	1-1/4	24000

ROLLER CHAIN REPAIR PARTS

- Offset links, for odd numbered pitches.
- Spring clip connecting links for No. 60 and smaller chain.
- Cotter pin connecting links for No. 80 and larger chain.

ANSI NO.	ROLLER LINK PART NUMBER	QTY	OFFSET LINK PART NUMBER	QTY	CONNECTING LINK PART NUMBER	QTY
*35	**407106**	12	**407111**	6	**407116**	12
41	**407128**	12	**407129**	6	**407130**	12
40	**407107**	12	**407112**	6	**407117**	12
50	**407108**	12	**407113**	6	**407118**	12
60	**407109**	12	**407114**	6	**407119**	12
80	**407110**	6	**407115**	3	**407120**	12
100	**407126**	3	**407124**	2	**407125**	6

Part No. 407002
63 pieces • 21 items
12017 steel tray

407106	407111	407116	407124	407130
407107	407112	407117	407125	
407108	407113	407118	407126	
407109	407114	407119	407128	
407110	407115	407120	407129	

Numbers in assortment

METRIC ROLLER CHAIN SEE SECTION A16.

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BALL JOINTS and CLEVIS YOKES

CLEVIS SHOP ASSORTMENT

- **All the necessary pieces for complete assembly.**

THREAD INTERNAL & EXTERNAL SAE	1/4-28	5/16-24	3/8-24	1/2-20
Spherical bearings ball joint	**52171**	**52172**	**52173**	**52163**
Non-adjust spring loaded ball joint	**52165**	**52166**	**---**	**---**
Clevis yoke ends	**52174**	**52175**	**52176**	**52178**
Clevis pin	**52112**	**52113**	**52115**	**52118**
Hitch pin cotter	**51791 (.080 x 1-9/16)**			

Part No. 501451
56 pieces • 15 items
12071 steel tray

51791	**52118**	**52171**	**52175**
52112	**52163**	**52172**	**52176**
52113	**52165**	**52173**	**52178**
52115	**52166**	**52174**	

Numbers in assortment

CLEVIS YOKE ENDS

- **Drop forged.**
- **Adjustable.**
- **Lusterplated.**

TAP SIZE (T)	PART NUMBER	LENGTH (A)	HOLE DIA. (B)	RECOMMENDED* CLEVIS PIN SIZE	CLEVIS PIN PART NUMBER
1/4-28	**52174**	2	1/4	1/4 x 1	**521127**
5/16-24	**52175**	2-1/4	5/16	5/16 x 1	**52113**
3/8-24	**52176**	2-1/2	3/8	3/8 x 1-1/8	**52115**
7/16-20	**52177**	2-7/8	7/16	7/16 x 1-1/4	**521136**
1/2-20	**52178**	3	1/2	1/2 x 1-1/2	**52118**
5/8-18	**52199**	4-15/16	5/8	5/8 x 1-3/4	**521144**
3/4-16	**52120†**	6-1/16	3/4	3/4 x 2	**521146**

*** Not included † Plain finish**

BALL JOINT ASSEMBLIES

Used for throttle linkage applications on all types of vehicles and equipment.

- **SAE threads.**
- **Right hand threads.**
- **Male & female threads same size.**

SPHERICAL BEARING BALL JOINT

THREAD SIZE	PART NUMBER
1/4-28	**52171**
5/16-24	**52172**
3/8-24	**52173**
1/2-20	**52163**

NON-ADJUSTABLE SPRING LOADED BALL JOINT

THREAD SIZE	PART NUMBER
1/4-28	**52165**
5/16-24	**52166**

ROD END BALL JOINTS

– MALE THREADS –

PART NUMBER	THREAD SIZE	THREAD
52250	1/4-28	R
52251	1/4-28	L
52252	5/16-24	R
52253	5/16-24	L
52254	3/8-24	R
52255	3/8-24	L
52256	1/2-20	R
52257	1/2-20	L

– FEMALE THREADS –

PART NUMBER	THREAD SIZE	THREAD
52258	1/4-28	R
52259	1/4-28	L
52260	5/16-24	R
52261	5/16-24	L
52262	3/8-24	R
52263	3/8-24	L
52264	1/2-20	R
52265	1/2-20	L

Bearing Raceway - Locked in by annular groove-trunion design. Made of fiber reinforced nylon.
Spherical Ball - Precision made from selected low carbon steel-case hardened - file hard. Plated plus dichromate treated for corrosion resistance.
Outer Member (Housing) - Low carbon steel, plated plus dichromate treated for corrosion resistance.

SEE NEXT PAGE: For a master assortment for golf courses, as well as landscape & farm equipment maintenance.

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AGRICULTURAL EQUIPMENT MAINTENANCE

AGRICULTURAL EQUIPMENT MAINTENANCE ASSORTMENT

Complete coverage for specialty products most often needed in the maintenance and repair of equipment used by golf courses, landscapers & in agriculture.

Includes: 4 assortments, slide rack & stand
Part No. 501764

TO COVER YOUR MAINTENANCE NEEDS, THIS ASSORTMENT CONTAINS:

CLEVIS SHOP ASSORTMENT
Ball joint assemblies, rod end, ball joints & clevis yoke ends
Part No. 501451

SEAMLESS COPPER STARTER LUGS
Popular sizes for 8 ga. thru 1 ga.
Part No. 210748

RETAINING RINGS & E-CLIPS
31 sizes of e-rings and internal & external retaining rings
Part No. 501389

ABRASIVES & GRINDING
Contains all you need to do any type of grinding or surface preparation
Part No. 501662

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ANCHORS

FACILITY MAINTENANCE ASSORTMENT

Complete coverage for specialty maintenance needs in schools, hospitals, office complexes, apartments and hotels.

- **A perfect add on to basic coverage provided by standard fasteners and electrical hardware.**

TO COVER YOUR MAINTENANCE NEEDS, THIS ASSORTMENT CONTAINS:

WALL ANCHORS
Solutions for every situation
Part No. **501759**

SPAX SCREWS
Self-drilling in almost all materials
Part No. **501686M**

TAMPERPROOF MACHINE SCREWS
Stops vandalism & loss
Part No. **501642**

TAPCON® FASTENERS
The only masonry anchor that cuts into concrete, brick & cement block
Part No. **501580**

Includes: 4 assortments, slide rack & stand
Part No. **501763**

WALL ANCHOR ASSORTMENT

Used in plastic, wallboard, wood, masonry, concrete block, metal & tile.

- **New expanded coverage.**
- **Includes nylon screw & ribbed plastic anchors, vinyl screw anchors, toggle bolts, Super Togglers®, Rawl Zip-It™ anchors, E-Z togglers, Alligator® anchors, metal screws and lag screws.**
- **Your complete anchor solution in a single tray - all popular styles and sizes.**

Part No. 501759
600 pieces • 24 items
12017 steel tray

51371	408502	505871	507102	507147	507385
51374	408503	505880	507103	507200	507386
51377	408504	505887	507145	507208	507387
53380	408526	505893	507146	507209	507392

Numbers in assortment

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ANCHORS

NYLON SCREW ANCHORS

- Easier and faster to install.
- Long life, less inventory.
- 6 areas of positive contact.
- Maximum lengthwise sure-hold grip. Won't turn in hole.
- Excellent vertical holding power, to 450 lbs.
- Use indoors or outdoors.
- When using a Rawl Plug, length requirements are the work thickness plus the anchor length.

SIZE RAWL PLUG ONLY	PART NUMBER	DRILL SIZE	QTY
6-8 x 3/45	**408501**	3/16	100
8-10 x 7/8	**408502**	3/16	100
10-12 x 1	**408503**	1/4	100
14-16 x 1-1/2	**408504**	5/16	50

ANCHOR KITS

For installing signs, shelves, cabinets, pictures, conduit straps in plaster, wallboard, wood and masonry.

- Kits contain all you need anchors, screws and one masonry drill bit in a plastic tray.
- Combination style slotted or phillips pan head sheet metal screws.

KIT PART NUMBER	KIT CONTAINS ANCHOR SIZE	QTY	SCREW SIZE	QTY	MASONRY BIT
408505	6-8 x 3/4	100	6 x 1	100	3/16
	(408501)		(505864)		(813658)
408506	8-10 x 7/8	100	8 x 1	100	3/16
	(408502)		(505871)		(813658)
408507	10-12 x 1	100	10 x 1	100	1/4
	(408503)		(505880)		(813659)
408508	14-16 x 1-3/8	50	14 x 1-1/4	50	5/16
	(408504)		(505893)		(813660)

RIBBED PLASTIC ANCHORS

Used in plaster, wood, wallboard, sheet rock, drywall, brick block, concrete, etc.

- Serrated Tabs on each side expand to prevent rotation.
- Tabs also provide additional holding strength.
- Ribbed body prevents anchor pull-out.
- Manufactured from polyproplene.
- Used with wood screws, sheet metal screws, or drywall screws (order separately).

PART NUMBER	QTY	SCREW SIZE	ANCHOR LENGTH	DRILL SIZE
408525	100	4-6-8	7/8	3/16
408526	50	8-10-12	1-1/4	1/4
408527	50	12-14-16	1-1/2	5/16

SCREW & ANCHOR KITS

- Easily removable and reusable.
- Vibration and shock proof.
- Resists chemicals, alkalies and fungus.
- 3 head styles cover all industrial and maintenance applications.

ANCHOR SIZE (INCHES)	PART NUMBER	DRILL SIZE (INCHES)	HOLDING POWER (LBS.)	STYLE HEAD	QTY
3/16 x 1	**51311**	3/16	249	Round	100
3/16 x 1-1/2	**51312**	3/16	297	Round	100
1/4 x 1	**51313**	1/4	261	Round	100
1/4 x 1-1/2	**51314**	1/4	320	Round	100
3/16 x 1	**51315**	3/16	249	Flat	100
1/4 x 1	**51316**	1/4	261	Flat	100
1/4 x 1-1/2	**51317**	1/4	320	Flat	100
3/16 x 1	**51318**	3/16	237	Mushroom	100
1/4 x 3/4	**51319**	1/4	212	Mushroom	100
1/4 x 1	**51320**	1/4	261	Mushroom	100

VINYL SCREW ANCHORS

Color coded by diameter to eliminate confusion

SCREW SIZE	LENGTH (INCHES)	PART NUMBER	DRILL SIZE COLOR	SAFE WORK PLASTER	CONCRETE	LOAD/ LBS.*	QTY
1-2-3	1	**51365**	Yellow	5/32	1/8	62	100
4-5-6	1	**51366**	White	13/64	3/156	85	100
7-8-9	1	**51367**	Red	15/64	1/4	136	100
	1-1/2	**51368**	Red	15/64	1/4	136	100
10-11-12	1	**51369**	Green	9/32	1/4	223	100
& 3/16	1-1/4	**51370**	Green	9/32	1/4	223	100
	1-1/2	**51371**	Green	9/32	1/4	223	100
	2	**51372**	Green	9/32	1/4	223	100
13-14-15	1	**51373**	Blue	5/16	5/16	267	100
& 1/4 Lag	1-1/2	**51374**	Blue	5/16	5/16	267	100
	2	**51375**	Blue	5/16	5/16	267	100
	2-1/4	**51376**	Blue	5/16	5/16	267	100

SCREW SIZE	LENGTH (INCHES)	PART NUMBER	DRILL SIZE COLOR	SAFE WORK PLASTER	CONCRETE	LOAD/ LBS.*	QTY
16-18 & 5/16	1-1/2	**51377**	Orange	--	3/8	392	100
Lag	2	**51378**	Orange	--	3/8	392	100
	2-1/2	**51379**	Orange	--	3/8	392	100
20-22-24	2	**51380**	Gray	--	7/16	537	50
& 3/8 Lag	2-1/2	**51381**	Gray	--	7/16	537	50
	3	**51382**	Gray	--	7/16	537	50
7/16 &	2-1/2	**51383**	Black	--	5/8	658	25
1/2 Lag	3-1/2	**51384**	Black	--	5/8	658	25

***Tested holding power is ten times "Safe Working Load".**

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OUR *UNI-TAP®* and HOLLOW WALL ANCHORS

UNI-TAP®

A unique nylon fastener that can be used in a variety of substrates. UNI-TAP® eliminates ice build-up, a common occurrence on the head of metal fasteners in refrigerated trucks and equipment.

- **Low cost, tamper resistant, vibration resistant, non-corrosive, sanitary, FDA approved.**
- **Withstands temperatures from -60° F to 425° F.**
- **High shear and tensile strength. Can withstand the impact of hammer installation and still hold firmly in place.**

To Install: Drill a .281 size hole (K or 9/32 drill bit)
Insert ***UNI-TAP®***

UNI-TAP® WORKS IN:

- **Wood**
- **Concrete**
- **Block**
- **Brick**
- **Plastic**
- **Plexi-glass**
- **Metal**
- **Foam Insulation**
- **Sanitary Wall Systems**

USE *UNI-TAP®* FOR:

- **Trailer liners, Truck panels, Refrigerated trucks, Reefers, Cold storage facilities, Food processing plants, Restaurants, Food preparation facilities**
- **Electrical control panels and boxes**
- **Telecommunications**
- **Building and housing construction, wall and roof insulation**
- **Plumbing and heating installations**
- **Display signs**

Part No. 501641
180 pieces • 5 items
12061 steel tray

507395 507397 507399
507396 507398

Numbers in assortment

PART NUMBER	SIZE	GRIP RANGE	HOLLOW MATERIAL SHEAR (LBS.)	PULL OUT CEMENT BLOCK (LBS.)	PULL OUT HOLLOW WALL (LBS.)	HEAD STYLE	QTY
507395	1/4x1	3/16 to 1/2	250	150	130	Truss	100
507396	1/4x1-5/8	3/8 to 1-1/8	253	158	130	Truss	100
507397	1/4x2-1/8	7/8 to 1-5/8	274	154	130	Truss	50
507398	1/4x2-5/8	1-3/8 to 2-1/8	238	163	130	Truss	50
507399	1/4x3-1/8	1-7/8 to 2-5/8	228	150	130	Truss	50

TOGGLER® TOGGLE BOLTS

When the application is critical use Toggler® Toggle Bolts, the strongest anchor available.

Toggler® Toggle Bolts for maximum strength & precision alignment in:

- Hollow Block
- Hollow Brick
- Drywall
- Cinder Block
- Stucco
- Paneling
- Concrete Block
- Plaster
- Fiberglass
- Cement Board
- Boat Decks
- Composite Panels

Four easy steps to total anchoring security!

1. Drill appropriate sized hole. Hold metal channel flat alongside plastic straps and slide channel through hole.
2. With one hand, pull ring or hold ends of straps between thumb & forefinger. Pull toward you until metal channel rests flush behind wall. Slide plastic cap along straps until flange of cap is flush with wall.
3. Place thumb between plastic straps. Push side ti side snapping off straps flush with wall.
4. Insert bolt through item to be attached and tighten until flush with fixture. Minimum clearance behind wall: 1-7/8".

- **Easy to use - pre-installs without bolt.**
- **Strongest toggle bolt available - size for size.**
- **Accurate - rugged pre-installation mechanism centers metal channel in small hole, before bolt insertion.**
- **Quick - can be used with a screw gun.**
- **Cost effective - turn 2 person job into 1 person job.**
- **Get job done faster - save 6 minutes per anchor compared with old-fashioned methods.**
- **Convenient - enables removal of bolt/fixture without anchor falling behind wall.**
- **Most reliable - will not damage or break through wall even when vibrated.**
- **Ideal for heavy loads in hollow walls, ceilings and floors.**
- **Grip range 3/8" to 3-5/8" wall thickness.**
- **Toggle is zinc plated, straps and face plate are plastic.**
- **Screw length = 1/2" + wall + fixture thickness.**
- **Screws not included.**

3/16" & 1/4" Snap Toggle

3/8" & 1/2" Toggler

PART NUMBER	QTY	SIZE	TENSILE PULL-OUT VALUES: LBS. AND (KG) 5/8" (16mm) DRYWALL	CONCRETE BLOCK	1/2" (13mm) STEEL PLATE	HOLE SIZE	GRIP RANGE
507388	10	3/16-24	356 (162)	714 (325)	918 (417)	1/2	3/8 - 3-5/8
507389	10	1/4-20	306 (139)	925 (420)	1,283 (583)	1/2	
507390	5	3/8-16	576 (262)	1,167 (530)	1,425 (648)	3/4	3/8 - 2-1/2
507391	5	1/2-13	N/A	2,038 (926)	2,392 (1,087)	3/4	

Tests are ultimate load, industry safety standards recommend 1/4 of the values for actual application. Age and condition of wall material will cause tensile values to vary.

LIGHT & MEDIUM DUTY ANCHORS

Used in plaster, wallboard, wood, masonry, concrete block, metal, and tile.

- **Includes: nylon anchors, sheet metal screws, toggle wings and bolts.**

Part No. 501599
520 pieces • 15 items
12051 steel tray (with dividers)

27111 408501 507101 507106
27119 408502 507102 507116
27128 408503 507103 507117
27146 408504 507105

Numbers in assortment

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HOLLOW WALL ANCHORS

TOGGLE WINGS & BOLTS

Ideal for use in hollow walls, ceilings, plaster, tile, wood, concrete block, metal.

- Automatic spring-action toggles.
- Exclusive tensioning spring prevents loosening by vibration or shock.
- Round head fully threaded bolts.

Protected by LUSTERPLATE™ against rust & corrosion

TOGGLE BOLTS

SIZE	DRILL SIZE	PART NUMBER	QTY
1/8 x 2	3/8	**507116**	50
1/8 x 3	3/8	**507101**	50
1/8 x 4	3/8	**507117**	50
3/16 x 3	1/2	**507102**	50
3/16 x 4	1/2	**507103**	40
3/16 x 6	1/2	**507104**	40
1/4 x 3	5/8	**507105**	40
1/4 x 4	5/8	**507106**	40
1/4 x 6	5/8	**507107**	30
3/8 x 4	7/8	**507108**	20
3/8 x 6	7/8	**507109**	20

TOGGLE WINGS ONLY

SIZE	PART NUMBER	QTY
1/8 (6-32)	**507110**	25
3/16 (10-24)	**507111**	25
1/4-20	**507112**	25
5/16-18	**507113**	10
3/8-16	**507114**	10
1/2-13	**507115**	5

Part No. 507001
45 pieces • 6 items
12042 plastic tray

507102 507106 507108
507104 507107 507109

Numbers in assortment

SUPER TOGGLER® (TOGGLER™)

Used in drywall, wood, concrete, paneling, masonry, tile, and hollow doors.

PART NUMBER	GRIP RANGE (INCHES)	ACCEPTS SCREW SIZES	QTY
507145	1/8-1/4	6 to #14	50
507146	3/8-1/2	6 to #14	50
507147	5/8-3/4	6 to #14	50

- Works almost anywhere.
- One piece assembly.
- Will not rust. Cannot overtighten.
- Use with wood or sheet metal screws.
- Screws can be removed without removing anchor.
- All sizes install in a 5/16" diameter hole.
- Can be installed with a screw gun.

Part No. 507144
Contains a 5/16" drill, keydriver & anchors.
79 pieces • 5 items
12047 plastic tray

507145 813517
507146 814319
507147

Numbers in assortment

WALL GRIPS

Securely fastens mirrors, pictures, cabinets, curtains, drapes, bathroom fixtures to hollow walls of plaster, wallboard gypsum or cinderblock.

SIZE (INCHES)	BODY (INCHES)	PART NUMBER	DRILL SIZE (INCHES)	WALL THICKNESS (INCHES)	QTY
1/8-XS	1/4	**507232**	5/16	0-1/4	25
1/8-S	1/4	**507226**	5/16	1/8-1/2	25
1/8-L	1/4	**507227**	5/16	5/8-7/8	25
3/16-S	3/8	**507228**	7/16	1/8-5/8	25
3/16-L	3/8	**507229**	7/16	5/8-1-1/4	25
1/4-S	7/16	**507230**	1/2	1/8-5/8	25
1/4-L	7/16	**507231**	1/2	5/8-1-1/4	25

Part No. 507225
25 pieces • 5 items
12034 plastic tray

507226 507229
507227 507230
507228

Numbers in assortment

- Fixtures can be removed or replaced without disturbing the wall grip.

"WALL DOG"™ ANCHORS

The Wall-Dog™ is the industry's first all steel one-piece screw anchor, which features high-profile threads for easy fastening into wallboard and other masonry base materials. It is deep cutting and when removed the Wall-Dog leaves a much smaller hole than toggles or other systems. For fastening into wallboard or wood, no pre-drilling is required. Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled 3/16"ANSI hole.

- Installs in wallboard, plywood, concrete, hollow or grout filled block, brick and plaster.
- Patented design provides for smooth entry, clean cutting and a powerful hold.
- Thread design prevents spinning and stripping.
- Heat treated point penetrates metal and wood studs.
- Two finished heads, oval & pan.
- Two colors, chrome and white head.
- Self-drills own small hole in 1/2" & 5/8" thick wallboard.
- Installs quickly and easily with a Phillips® screwdriver.
- Case hardened steel.
- 3/16" diameter x 1-1/4" long.
- Corkscrew like threads provide a smooth entry and powerful hold.

PART NUMBER OVAL HEAD	PART NUMBER PAN HEAD	HEAD COLOR	QTY
507421	**507423**	Chrome	25
507422	**507424**	White	25

Part No. 507401
3/16" masonry drill bit
101 pieces • 5 items
12047 plastic tray

507421 507424
507422 813658
507423

Numbers in assortment

MASTER GRIPS ASSORTMENT

Includes: both styles of Hollow Wall Grips.

Part No. 501600
195 pieces • 9 items
12051 steel tray

507226 507229 507232
507227 507230 507236
507228 507231 507238

Numbers in assortment

DRIVE GRIPS

Securely fastens mirrors, pictures, cabinets, curtains, drapes, bathroom fixtures to hollow walls of plaster, wallboard gypsum or cinderblock.

- Fixtures can be removed or replaced without disturbing the wall grip.
- No pre-drilling.

SIZE (INCHES)	PART NUMBER	WALL THICKNESS (INCHES)	QTY
1/8-DS	**507236**	1/8 to 1/2	25
1/8-DL	**507238**	1/8 to 3/4	25

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HOLLOW WALL and SOLID WALL ANCHORS

RAWL ZIP-IT™ ANCHORS

Anchors lightweight electrical fixtures to wallboard without pre-drilling.

- Fast and easy installation – No pre-drilling.
- High holding power – Screw is removable.
- Nylon is electrically non-conductive for safe installation.
- Nylon anchors will not cut hidden cables.
- Zip-It' Drills its own hole & drives into wallboard in one motion.
- Use with sheet metal or drywall screws.
- Available in Du Pont ZYTEL, Nylon or Zinc.

U.S. and foreign Patents Pending.

PART NUMBER	WALLBOARD THICKNESS (INCHES)	TYPE OF MATERIAL	SCREW SIZE	QTY
507208	3/8 to 5/8	Nylon	No. 6	25
507200	3/8 to 1	Nylon	No. 8	25
507209	3/8 to 1	Steel/Zinc	No. 8	25

RAWL LEGS™ ANCHORS

Anchors lightweight electrical fixtures, phones and accessories to wallboard without pre-drilling.

- Fast and easy installation and removal.
- Steel zinc plated.
- Once removed, anchor leaves a small slit in wallboard versus gaping holes left by other anchors.
- Insertion of screw engages preformed tabs in each leg to expand outwards into base of material.
- Use with No. 6 or 8 screw.
- Pierce point for easy insertion.
- Square flat head sits flush against surface.

Part No. 507224 25

Installation Procedures
(Minimum screw length is 3/4" plus fixture thickness).

Place tip of anchor against face of wallboard and tap in with hammer until the flange is sealed flush against wallboard.

Locate the fixture and insert a #6 or #8 sheet metal screw through the fixture hole into the installed anchor. Tighten the screw until the fixture is securely seated against the base material & the anchor is fully expanded.

To remove:
Remove the screw and take down the fixture, then insert the screw into the anchor one turn. Pull on the screw to slide the anchor out of the slit in the face of the wallboard.

UTILITY HOOK

For hanging pictures, mirrors, plaques, degrees, permits, and licenses.

- Sturdy metal construction.
- Can be used with an anchor, using screws from #6-32 to 1/4" diameter.

Part No. 507249 25

* Will be deleted when supplies are exhausted.

E-Z TOGGLE

Electrical fixtures, cabinets, mirrors, signs, shelving, heating and air conditioning, plumbing fixtures, telecommunication equipment, smoke detectors, curtain rods and closet organizers.

- Self drilling - no hole preparation necessary; pre-drills own hole in gypsum wallboard/drywall.
- Faster than toggle bolts.
- Replaces plastic plugs and ordinary toggles.
- Heavy duty - strong enough to use in ceiling.
- Deep thread design provides strong grip in 3/8", 1/2" and 5/8" gypsum wallboard/drywall.
- Comes with #8 x 2-1/8 pan head Phillipsscrews.
- Installs quickly with a #2 phillips screwdriver.
- Zinc plated anchors & screws.

PERFORMANCE DATA

DRYWALL THICKNESS	PULLOUT AVG. LB.	SHEAR AVG. LB.
3/8	70	200
1/2	85	230
5/8	150	300

Part No. 507392 10

E-Z INSTALLATION

1. Place #2 phillips screwdriver into recess of E-Z Toggle. Press into drywall while turning the anchor clockwise until it is sealed flush with wall and arrows on head are parallel to stud.
2. Place fixture in position over installed E-Z Toggle. Insert screw and push through E-Z Toggle to engage clamp.
3. Continue turning screw until tight. The clamp will move back against the drywall as the screw is turned.

ALLIGATOR® SOLID WALL ANCHORS

The grip that won't let go. Alligator anchors are ideal for use in a wide variety of materials

- Concrete
- Masonry
- Stucco
- Brick
- Ceramic Tile
- Flakeboard
- Cinder Block
- Plaster
- Aerated Concrete
- Wood
- Stone
- Drywall

ANCHOR DIAMETER	PART NUMBER	QTY	USE SCREW SIZE
3/16	**507385**	25	#4 - #10
1/4	**507386**	25	#6 - #14
5/16	**507387**	25	#6 - 5/16

TENSILE TEST RESULTS
(Ultimate results in pounds in 4,000 psi concrete)

ANCHOR DIAMETER	ALLIGATOR	NAIL-IN ANCHOR	MASONRY SCREW	METAL SLEEVE ANCHOR
3/16	2,316	200	600	--
1/4	2,633	265	1,240	1,300
5/16	3,083	--	--	1,700

Toggler Alligator Anchor Applications

Electrical Equipment	Brackets	Door Jambs	Lighting Fixtures
Handrails	Shelving	Antenna	Window Frames
Telephone Equipment	Alarms	Framing	Circuit Breakers
Plumbing Fixtures	Cabinets	Partitions	Stonefront Gates
Fire Extinguishers	Awnings	Signs	RTA Furniture

Replaces Conventional Metal Anchors

- Fast -Install through the fixture with a screw gun.
- Versatile - works in any building material.
- Works with different screw sizes for highest holding power without cracking wall.
- Stronger than metal anchors 2 times the diameter.
- "Molding" action bonds anchor to wall.
- Vibration-proof - specially formulated corrosion-proof polymer absorbs shock.
- Use wood screws, sheet metal, or lag screws.
- Anti-rotation fins hold anchor in place. No other anchor has this feature.

Easy installation with a screwdriver or a screw gun

Drill hole same dia. as anchor.

Push in anchor and tap flush.

Insert screw and tighten.

Anti-rotation fins prevent spinning while Alligator anchor extrudes along screw in solid walls or locks open in hollow walls.

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MASONRY ANCHORS

RAWL ZAMAC NAILIN

Use in concrete, block, brick or stone.

- Body is made of Zinc (Zamac #7) with plated steel nail to resist corrosion.
- Tamperproof.
- One piece assembly.
- No layout or hole-spotting required.
- GSA Specification, FF-S-325, Group V, Type 2, Class 3.
- Mushroom Head.

SIZE (INCHES)	PART NUMBER	DRILL SIZE (INCHES)	EMBED. DEPTH (INCHES)	PULLOUT LOAD TESTS* TENSION LOAD (LBS)	QTY
1/4 x 1-1/2	**314102**	1/4	1-3/8	1,150	50
1/4 x 2	**314103**	1/4	1-7/8	1,300	50

***NOTE: Test done in concrete having minimum compressive strength of 4,100 PSI.**

RAWL HAMMER DRIVE PINS

The Rawl Hammer Drive Pin is an all-purpose, lightweight steel nail drive fastener for direct fastening in concrete, block or brick.

– SETTING TOOLS –

HEAVY DUTY
Part No. **314131**

STANDARD DUTY
Part No. **314130**

Part No. 314001
100 pieces • 5 items
12049 plastic tray

314125 314127 314129
314126 314128

Numbers in assortment

- No hole-drilling required.
- Heat-treated, prevents bending or breaking.
- Install with 2 lb. hammer.
- Deeper embedment provides greater holding power.
- Not recommended for brittle or dense masonry.

HEAD DIA. & LENGTH (INCHES)	PART NUMBER	QTY
1/4 x 3/4	**314125**	25
1/4 x 1	**314126**	25
1/4 x 1-1/4	**314127**	25
1/4 x 1-1/2	**314128**	25
1/4 x 2	**314129**	25

TAPCON® FASTENERS

The only masonry anchor that cuts into concrete, brick and cement block.

- Blue Stalgard coating for rust protection.
- Replaces expansion anchors, powder-actuated fasteners, plugs and screws.
- Exceptional pull-out strength - as strong or stronger than any anchor its size.
- Two step operation: drill hole and drive the anchor; save time and money.
- Tapcon, anchors are reversible - easily removed to adjust for shimming or leveling.

SLOTTED HEX

PHILLIPS FLAT

TAPCON® ANCHORS SUPERIOR DESIGN

HEAD - Slotted hex waher head and Phillips flat head styles available.

THREADS - Specially notched high-low design taps threads into concrete. High threads cut deeply, easily into masonry. Low threads provide stability as anchor is driven.

POINT - Guides the anchor directly into the pre-drilled hole. The nail design allows the fastener to drill into wood.

PART NUMBER SLOTTED HEX	QTY	PART NUMBER PHILLIPS FLAT	QTY	SIZE (INCHES)	DRILL SIZE (INCHES)	USE DRILL NO.*
507356	25	**507363**	25	3/16 x 1-1/4	5/32 x 3-1/2	**507375**
507357	25	**507364**	25	3/16 x 1-3/4	5/32 x 3-1/2	**507375**
507358	25	**507365**	25	3/16 x 2-1/4	5/32 x 4-1/2	**507376**
507359	25	**507366**	25	3/16 x 2-3/4	5/32 x 4-1/2	**507376**
507360	25	**507367**	25	3/16 x 3-1/4	5/32 x 5-1/2	**507377**
507361	25	**507368**	25	3/16 x 3-3/4	5/32 x 5-1/2	**507377**
507362	25	**507369**	25	3/16 x 4	5/32 x 5-1/2	**507377**
507336	25	**507340**	25	1/4 x 1-1/4	3/16 x 3-1/2	**507344**
507337	25	**507341**	25	1/4 x 1-3/4	3/16 x 3-1/2	**507344**
507338	25	**507342**	25	1/4 x 2-1/4	3/16 x 4-1/2	**507345**
507339	25	**507343**	25	1/4 x 2-3/4	3/16 x 4-1/2	**507345**
507371	25	**507372**	25	1/4 x 3-1/4	3/16 x 5-1/2	**507348**
507354	25	**507373**	25	1/4 x 3-3/4	3/16 x 5-1/2	**507348**
507355	25	**507374**	25	1/4 x 4	3/16 x 5-1/2	**507348**

***NOTE: To use Tapcon fasteners, you must pre-drill hole with special carbide tipped masonry drills listed above.**

ASSORTMENTS AVAILABLE!

2 Step Installation Tool Kit
Part No. 507346
Drill the hole and drive the anchor with the same tool.

Master Assortment
Part No. 501580
230 pieces • 10 items
12051 steel tray

507336 507338 507340 507342 507354
507337 507339 507341 507343 507355

Numbers in assortment

Master Assortment w/ Tools
Part No. 501581
199 pieces • 14 items
12051 steel tray
Includes drills, screws and installation kit.

507336 507339 507342 507345 507354
507337 507340 507343 507346 507355
507338 507341 507344 507348

Numbers in assortment

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MASONRY ANCHORS

MAXI-STUD MASONRY ANCHORS

Developed for use where maximum holding power is required.

- **Anchorage occurs at the bottom of the hole assuring a complete 360° contact.**
- **Special lance design provides non-rotational grip regardless of oversize hole conditions.**
- **Thread diameter = Hole diameter.**
- **No Hole-Spotting, No layout, No excessive hole drilling.**
- **Exclusive apertures instantly expand the stainless steel collar on first turn of the nut.**
- **Vibration proof holding power equal to the full value of the bolt or the concrete.**

PART NUMBER	SIZE	THREAD LENGTH	HOLE SIZE	MINIMUM DEPTH	QTY
51340	1/4 x 1-3/4	3/4	1/4	1-1/8	100
51341	1/4 x 2-1/4	3/4	1/4	1-1/8	100
51342	1/4 x 3-1/4	3/4	1/4	1-1/8	100
51343	3/8 x 2-1/4	7/8	3/8	1-5/8	50
51344	3/8 x 2-3/4	1-1/8	3/8	1-5/8	50
51345	3/8 x 3	1-1/8	3/8	1-5/8	50
51346	3/8 x 5	1-1/8	3/8	1-5/8	50
51347	1/2 x 2-3/4	1-1/8	1/2	2-1/4	25
51348	1/2 x 3-3/4	1-1/4	1/2	2-1/4	25
51349	1/2 x 5-1/2	1-1/4	1/2	2-1/4	25
51350	5/8 x 3-1/2	1-1/2	5/8	2-3/4	20
51351	5/8 x 4-1/2	1-1/2	5/8	2-3/4	20
51352	5/8 x 6	1-1/2	5/8	2-3/4	20
51353	5/8 x 8-1/2	1-1/2	5/8	2-3/4	20
51354	3/4 x 4-1/4	1-1/2	3/4	3-1/4	10
51355	3/4 x 5-1/2	1-1/2	3/4	3-1/4	10
51356	3/4 x 7	1-1/2	3/4	3-1/4	10
51357	3/4 x 8-1/2	1-1/2	3/4	3-1/4	10

TECHNICAL INFORMATION

AVERAGE PULLOUT & SHEAR STRENGTH MEASUREMENTS					
RECOMMENDED SAFE WORKING LOADS IN 3500 PSI CONCRETE			RECOMMENDED SAFE WORKING LOADS IN 2000 PSI CONCRETE		ULTIMATE AVERAGE HOLDING POWER IN 5000 PSI CONCRETE
DIA	TENSION	SHEAR	TENSION	SHEAR	TENSION
1/4”	695	460	235	325	2800
3/8”	960	1215	800	850	5100
1/2”	1710	2335	950	1875	7500
5/8”	2150	3500	1550	3000	9500
3/4”	3375	5250	2100	4175	14000

TITEN™ HEAVY DUTY THREADED ANCHORS

The Cutting Edge In Anchors

Used in concrete, grout filled concrete block, and solid block.

- **Cut removal hassles: Easy to remove, ideal for temporary anchoring.**
- **Cut inspection hassles: No need to verify setting or installation torque, anchor is head-stamped with length for easy inspection.**
- **Higher load capacity & vibration resistance: Threads along the length of the anchor transfer the load to the base material. Ratchet teeth on the bottom of the hex-washer head keep the anchor from loosening in vibratory conditions.**
- **Specialized heat treating process: Creates superior surface hardness at the tip to facilitate cutting, while at the same time not compromising ductility within the anchor body.**
- **Less spacing and edge distance required: The anchor does not exert expansion forces on the base material.**
- **Easy post-installation inspection: The head is stamped with the manufacturers “≠” sign and the anchor length in inches.**
- **Installs with 50% less torque: Testing shows that when compared with a major competitor, the Titen HD requires 50% less torque to be installed in concrete. The serrated teeth on the lead threads facilitate cutting, allowing the remainder of the threads to follow with very little friction. This enables the user to install the anchor using wrenches or cordless tools.**
- **Hex washer head: Requires no separate washer and provides a clean installed appearance.**
- **Removable: Ideal for temporary anchoring (e.g. formwork, bracing) or applications where fixtures may need to be moved. Re-use of the anchor to achieve listed load values is not recommended.**
- **Made from carbon steel zinc plated.**
- **Recommended for use in dry interior applications.**
- **Ideal for anchoring racking, conveyers, and dock bumpers.**
- **Cut installation time: Drive it and you’re done. No setting or torquing required.**
- **Cut drill bit inventory: Requires NO SPECIAL DRILL BITS. Installs in standard sized holes.**
- **Cut down on tools: Just a socket or impact wrench is all you need for installation once the hole is drilled.**

PART NUMBER	SIZE DIA. & LENGTH (INCHES)	DRILL BIT DIA.	WRENCH SIZE	QTY
507451	3/8 x 2-1/2*	3/8	9/16	10
507452	3/8 x 3	3/8	9/16	10
507453	3/8 x 4	3/8	9/16	10
507456	1/2 x 3	1/2	3/4	10
507457	1/2 x 4	1/2	3/4	10
507458	1/2 x 5	1/2	3/4	10
507459	1/2 x 6	1/2	3/4	10
507461	5/8 x 4	5/8	15/16	10
507462	5/8 x 5	5/8	15/16	10
507463	5/8 x 6	5/8	15/16	10

*** To be discontinued when stock is depleted.**

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MASONRY ANCHORS

STUD BOLT ANCHORS

Designed for medium and heavy fastening in solid material.

- **The anchor is equal in strength to the bolt and or material in which it is installed.**
- **Pre-assembled and ready to use.**
- **Drilled hole and anchor diameter are the same.**
- **Eliminates hole layout time.**
- **No special tool required.**

– SLOTTED FLAT HEAD STYLE –

HOLE SIZE (INCHES)	ANCHOR LENGTH (INCHES)	PART NUMBER	QTY
1/4	2	**507294**	25
1/4	3	**507295**	20
1/4	4	**507296**	20

Drill hole in concrete. Maximum depth of drilled hole could be minimum recommended depth.

Drive stud bolt anchor into drilled hole through fixture so that nut is flush with fixture.

– HEX NUT STYLE –

HOLE SIZE (INCHES)	ANCHOR LENGTH (INCHES)	PART NUMBER	QTY
3/8	1-7/8	**507276**	25
3/8	3	**507277**	25
1/2	2-1/4	**507278**	25
1/2	3	**507279**	25
5/8	2-1/4	**507280**	10
5/8	3	**507281**	10

Tighten nut until wrench resistance is felt. Anchorage is complete.

MACHINE SCREW ANCHORS

- **A popular expansion shield made of lead sleeve and threaded metal cone of rustproof alloy.**
- **Cannot be installed incorrectly.**
- **In solid masonry, lead sleeve expands into irregularities of holes.**
- **For use with machine screws and bolts.**

– MACHINE SCREW ANCHORS – SIZE (INCHES)	LENGTH (INCHES)	PART NUMBER	QTY
10-24	11/16	**507240**	12
1/4-20	7/8	**507241**	12
3/8-16	1-5/16	**507242**	12
1/2-13	1-9/16	**507243**	12

– SETTING TOOLS – SIZE (INCHES)	PART NUMBER
10-24	**507244**
1/4-20	**507245**
3/8-16	**507246**
1/2-13	**507247**

DROP-IN ANCHORS

Designed for flush mount applications in solid base materials.

- **Internally threaded.**
- **Deformation controlled expansion anchor.**
- **Preassembled expander plug.**
- **Carbon steel.**
- **Positive setting.**
- **Use drill diameter same as size as hole diameter.**

Drill hole.

Insert anchor tap with hammer. Use setting tool to drive expander plug.

Place fixture over anchor. Insert and tighten fastener.

Protected by LUSTERPLATE™ against rust & corrosion

– ANCHOR –

– TOOL –

PART NUMBER	QTY	ANCHOR SIZE I.D.xTHREADxLENGTH	HOLE SIZE	EMBEDMENT DEPTH	MAX. LOAD LBS.	SETTING TOOL NUMBER
507475	20	1/4-20 x 1	3/8	1	460	**507480**
507476	20	3/8-16 x 1-1/2	1/2	1-1/2	990	**507481**
507477	10	1/2-13 x 2	5/8	2	1525	**507482**
507478	10	5/8-11 x 2-1/2	7/8	2-1/2	2170	**507483**
507479	5	3/4-10 x 3-1/8	1	3	2690	**507484**

DOUBLE EXPANSION ANCHORS

SIZE (INCHES)	ANCHOR LENGTH (INCHES)	PART NUMBER	HOLE SIZE (INCHES)	HOLDING POWER (LBS.)	QTY
1/4	1-3/8	**507251**	1/2	200	10
5/16	1-3/4	**507252**	5/8	300	10
3/8	2-1/16	**507253**	3/4	450	10
1/2	2-1/2	**507254**	7/8	1,000	6
5/8	3	**507255**	1	1,500	6
3/4	4	**507256**	1-1/4	2,000	6

Part No. 507250
23 pieces • 5 items
12047 plastic tray

507251 507253 507255
507252 507254

Numbers in assortment

- **Increasing holding power of wall materials.**
- **Heavy duty expansion shield which distributes load on the full length of side casting.**
- **For use with machine bolts.**

LAG SCREW SHIELDS

Provides secure anchorage of lag screws in mortar, stone and other types of solid masonry.

- **A precision die-cast expansion shield of rustproof alloy.**
- **Heavy external corrugations assure powerful gripping action.**

SIZE (INCHES)	ANCHOR LENGTH (INCHES)	"SHORT" PART NUMBER	HOLE SIZE (INCHES)	QTY
1/4	1	**507261**	1/2	20
5/16	1-1/4	**507262**	1/2	20
3/8	1-3/4	**507263**	5/8	20
1/2	2	**507264**	3/4	20

SIZE (INCHES)	ANCHOR LENGTH (INCHES)	"LONG" PART NUMBER	HOLE SIZE (INCHES)	QTY
1/4	1-1/2	**507266**	1/2	20
5/16	1-3/4	**507267**	1/2	20
3/8	2-7/16	**507268**	5/8	20
1/2	3-1/2	**507269**	3/4	20

Long Lag Sheilds
Part No. 507265
24 pieces • 4 items
12047 plastic tray

507266 507268
507267 507269

Numbers in assortment

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MASONRY ANCHORS

HANGERMATE® THREADED ROD ANCHORING SYSTEM

Used by plumbers, electricans HVAC/R, fire sprinklers, schools, maintenance departments, cable and coax companies to install threaded rod into concrete, steel and wood.

METAL APPLICATIONS

Tapped to Accept
1/4 - 20 Threads

Screw Size
1/4-20 x 1

Part No. 507405

Tapped to Accept
3/8 - 16 Threads

Screw Size
5/16-24 x 1-1/8

LISTED 6P52 PIPE HANGER

Meets NFPA 13 Support Requirements

Part No. 507407

Both anchors self-drill in metal up to .250''

WOOD APPLICATIONS

Tapped to Accept
1/4 - 20 Threads

Screw Size
5/16 x 2-1/4

Part No. 507406

CONCRETE APPLICATIONS

Tapped to Accept
3/8 - 16 Threads

Screw Size
5/16 x 2-1/4

Part No. 507408

- **Faster than beam clamps!**
- **Eliminates pounding or setting of unthreaded anchors into masonry!**
- **No more predrilling metal or wood!**
- **Easier to install than powder-actuated stud pin and coupling nut assemblies!**
- **Replaces coach screws, hanger bolts, swing connectors and ceiling flanges!**
- **Works in metal, concrete and wood to eliminate multiple fastening formats!**
- **Screws are steel with lusterplating.**
- **Plated carbon steel.**

INSTALLATION TOOLS

Drive Socket

Part No. 507409

SDS Drill Bit

Part No. 507413

Tanged Drill Bit

Part No. 507412

Drill Bit Adaptor & Hex Key

Part No. 507414

Drive Sleeve for Concrete

Part No. 507410

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