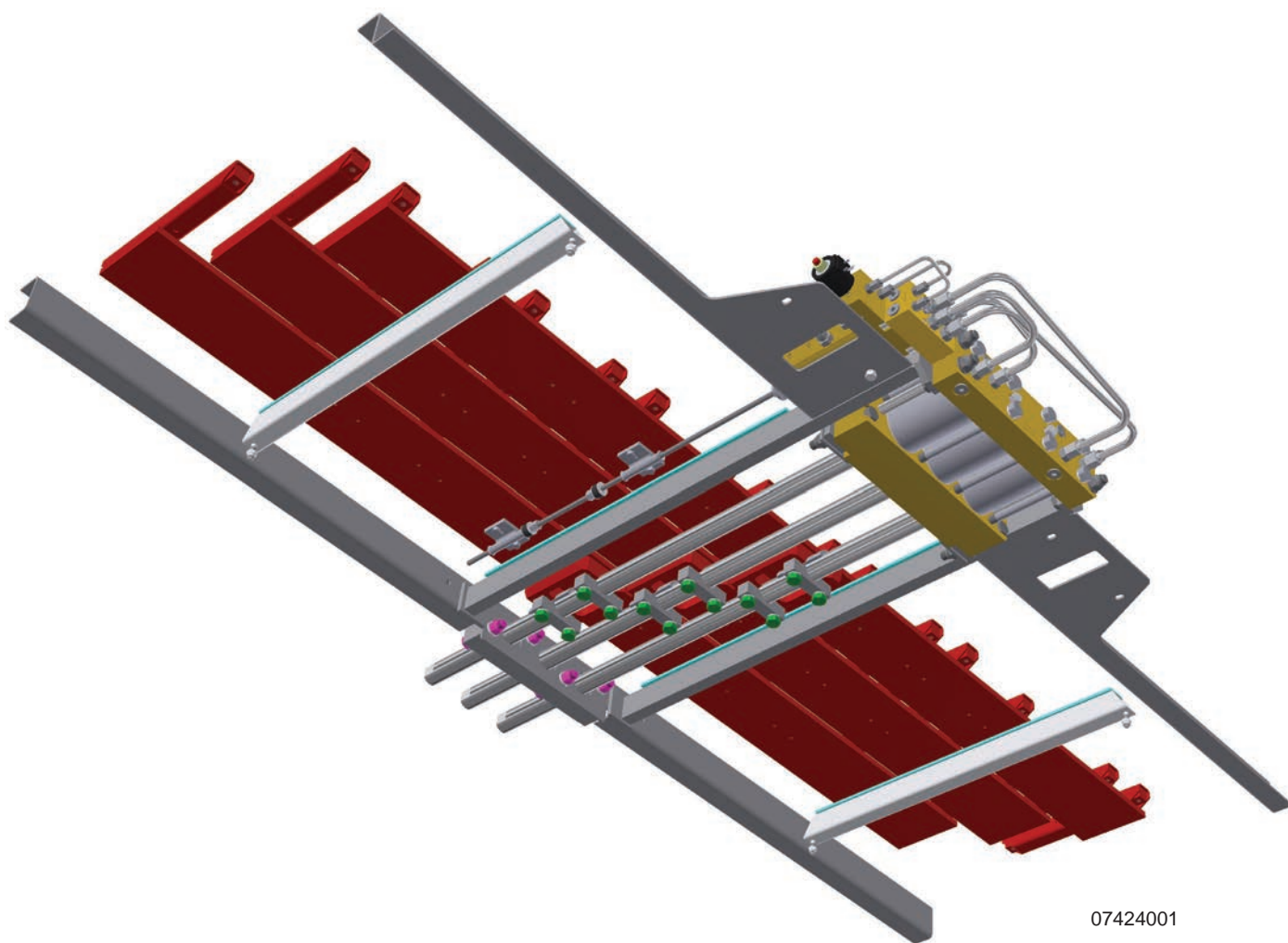


KMD 250 / KMD 300

KEITH Manufacturing Co.
www.KeithWalkingFloor.com
World Headquarters
Toll-Free: 800-547-6161
Phone: +1-541-475-3802



07424001



PARTS CATALOG

Original Instructions

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Released: 2025-05-05

DOC06381 Rev. D

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Not all parts or services available in all regions. Some components may only be sold assembled or in kits.
Contact your regional office for information on available parts and services.





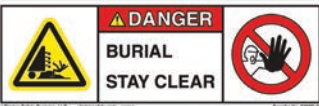



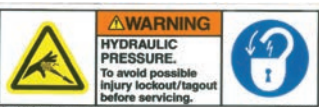







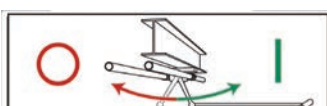
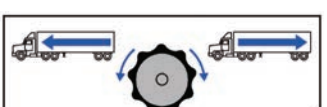
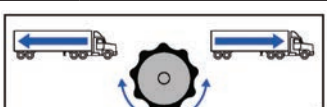
Service Information

- Use hydraulic oil or Vaseline to lubricate seals. Do NOT use grease.
- Do NOT use Teflon tape on any hydraulic components.
- When welding on drive frame, ground specifically to what you are welding on, otherwise it can short across component assemblies ruining seals and gaskets.
- KEITH sells flow meters, pressure testers for troubleshooting and several tools to aid in rebuilding components and drives.

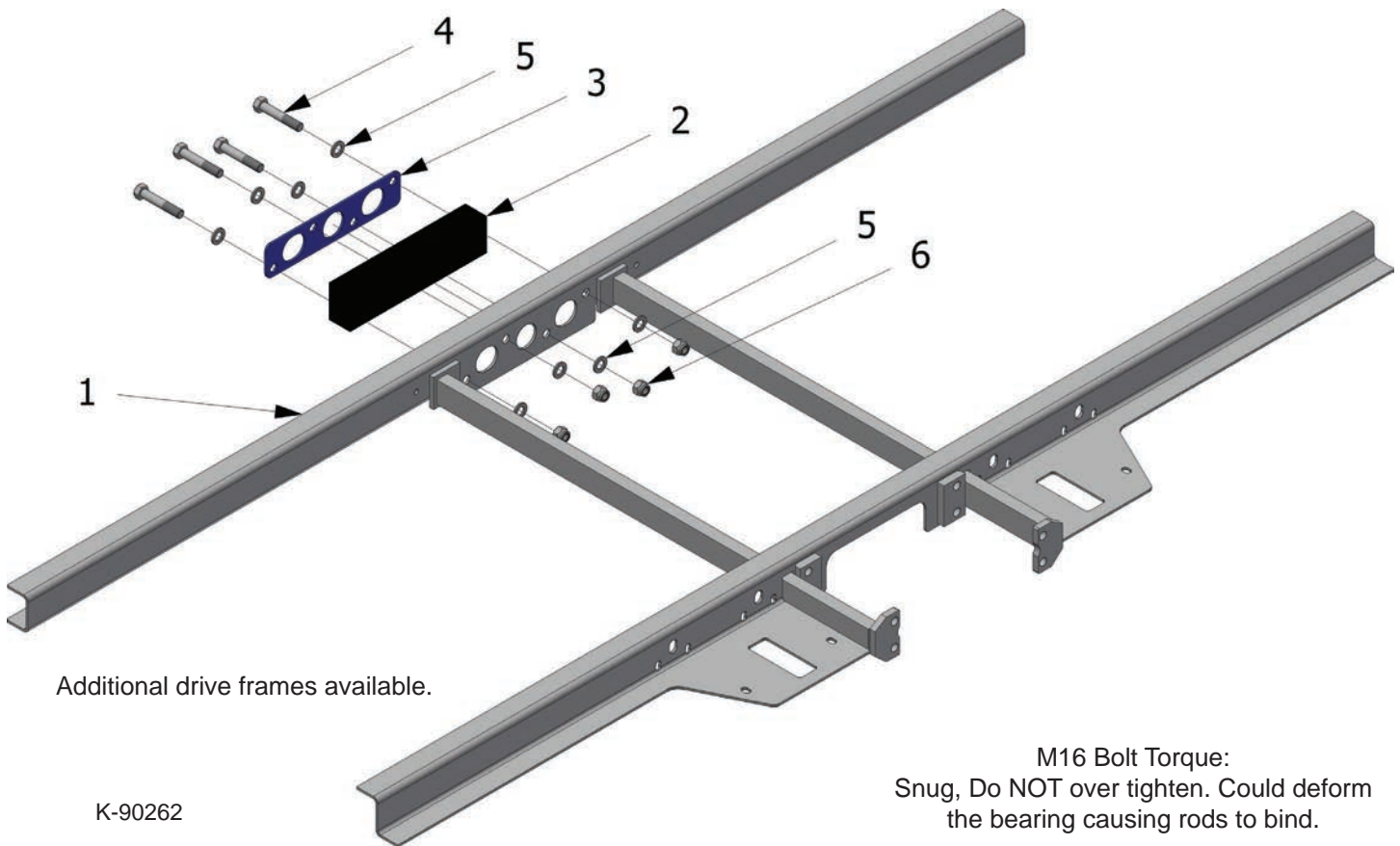
Please have the following information readily available before contacting KEITH for support:

- Model Number (Located on the Serial Plate of the drive unit)
- Serial Number (Located on the Serial Plate on the drive unit)
- Quantity & Length of floor slats
- Vehicle make and unit installer

Safety Decals

		Safety Decal Placement Guide #'s		84804324	84804325
Old - 2019 (Worded)	2020 - Future (Wordless)		Decal Kit #'s	LH Kit #84804336	RH Kit #84804337
		1	84804311	1	1
		2	84804312	4	4
		3	84804313	2	2
		4	84804314	2	2
		5	84804315	2	2
		6	84804316	2	2
		7	84804317	1	1
		8	84804318	1	1
		9	84804129	1	1
Controls on Left Side of Truck/Trailer		10	84803904	1	-
		10	84803905	-	1

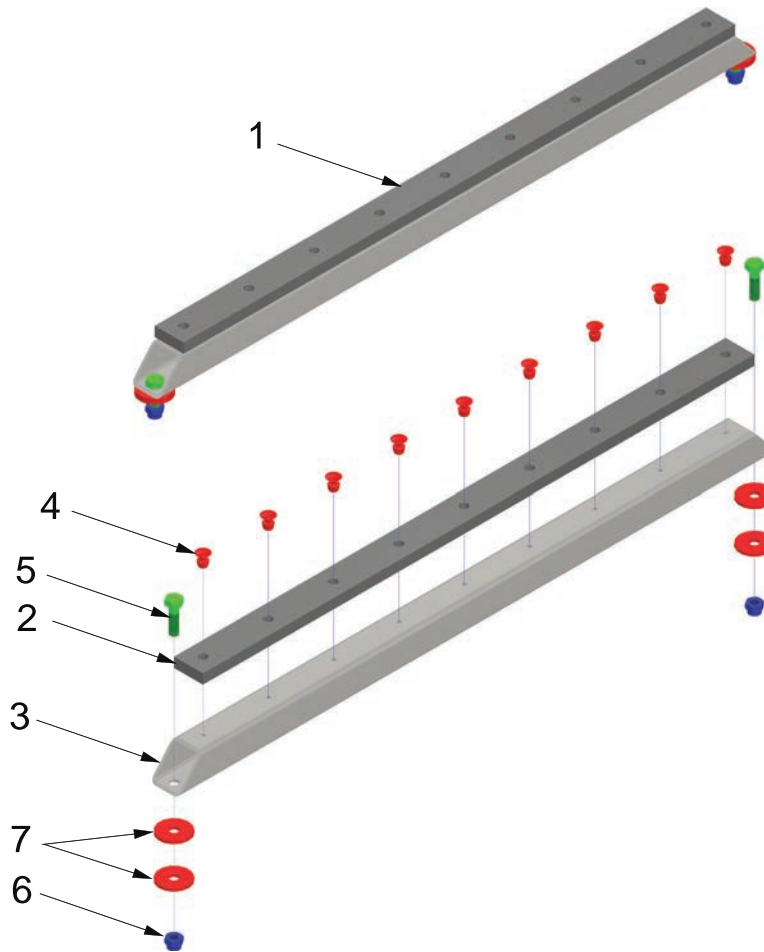
Drive Frame & Rod Bearing Block Assembly



Drive Frame & Rod Bearing Block Assembly

ID#	Qty	Part #	Part #	Part #	Description
-	(1)	09026201	-	-	Drive Frame Assembly, 3.0” Crossmember, 3.65” CC (Includes Items 1-6)
		-	09026202	-	Drive Frame Assembly, 80mm Crossmember, 97 mm CC (Includes Items 1-6)
		-	-	09026203	Drive Frame Assembly, 3.0” Crossmember, 97 mm CC (Includes Items 1-6)
1	1	05117301	-	05117301	Drive Frame, 3.0”
1	1	-	05397701	-	Drive Frame, 80mm
2	1	05120801	-	-	UHMW Rod Bearing Block, 3.65” Cylinder Centers
2	1	-	05037101		UHMW Rod Bearing Block, 97mm Cylinder Centers
3	1	05037001			Rod Bearing Cover Plate
4	4	87017600			Bolt, M16mm x 90mm
5	8	87077500			Flat Washer, 16mm
6	4	87103010			Nylock Nut, 16mm

Cross-Drive Support Assembly

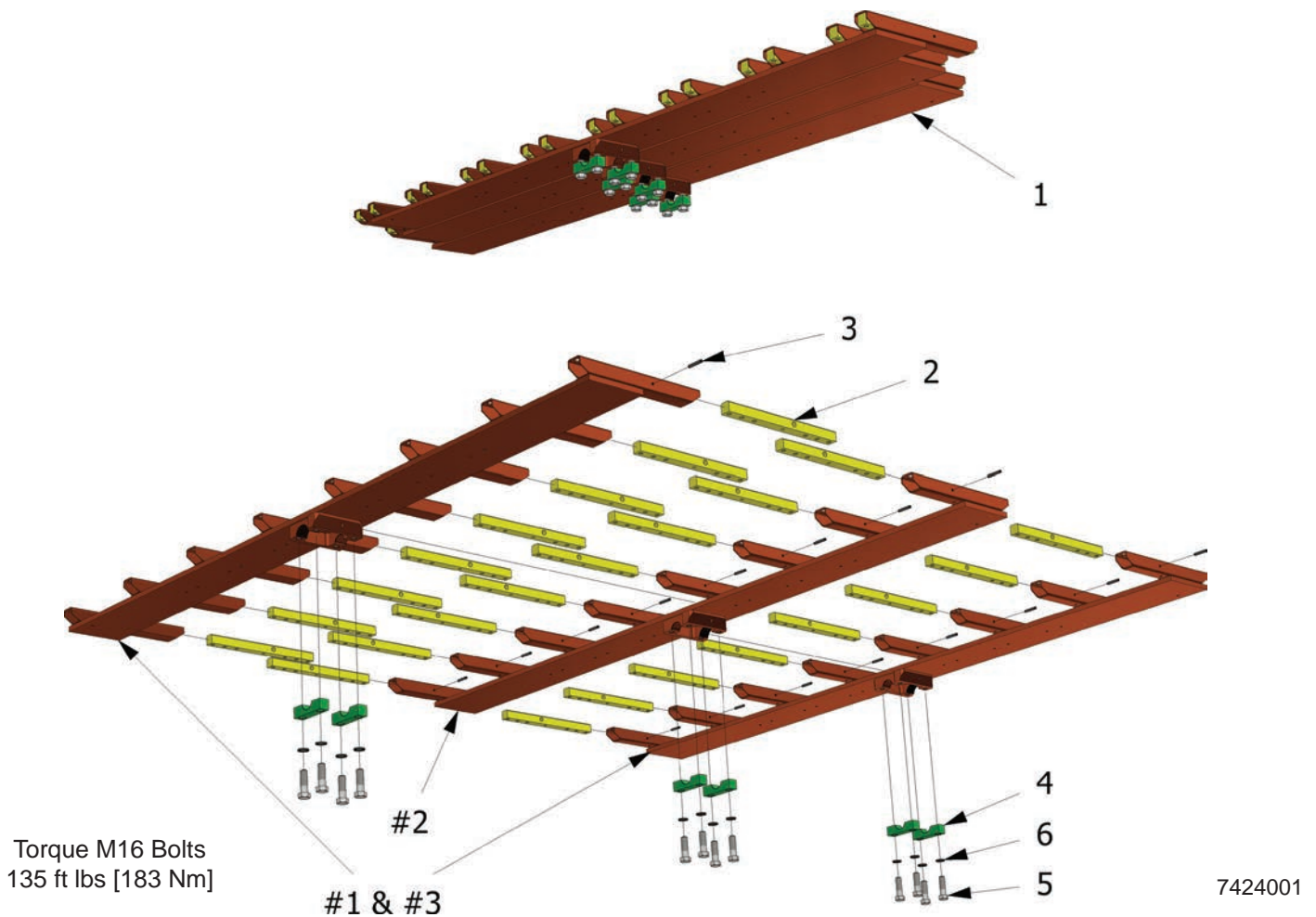


5233301

Cross Drive Support Assembly

ID#	Qty	Part #	Description
1	(2)	05233201	Cross-Drive Support Assembly (for 3" Cross-Member) (Includes Items 2-7)
2	1	05236602	Cross-Drive Support Bearing UHMW Black 3/8" KMD 3/8"X1-1/2"X28-1/2"
3	1	05473701	KMD Cross-Drive Support Tube
4	9	86528000	Rivet Pop 3/16 X 3/8 AB6-6
5	2	87008510	Bolt 10mm x 35mm
6	2	87102000	Nylock Nut 10mm
7	4	86553500	Large OD 3/8" Washer
1	(2)	10404001	Cross-Drive Support Assembly (for 80mm Cross-Member) (Includes Items 2-6)
2	1	05236601	Cross-Drive Support BRG UHMW 1/4" KMD 1/4"X1-1/2"X28-1/2"
3	1	10403901	Cross-Drive Support Tube KMD250/300
4	9	86528150	Rivet Pop 3/16 X 1/2 AB6-8
5	2	87008510	Bolt 10mm x 35mm
6	2	87102000	Nylock Nut 10mm

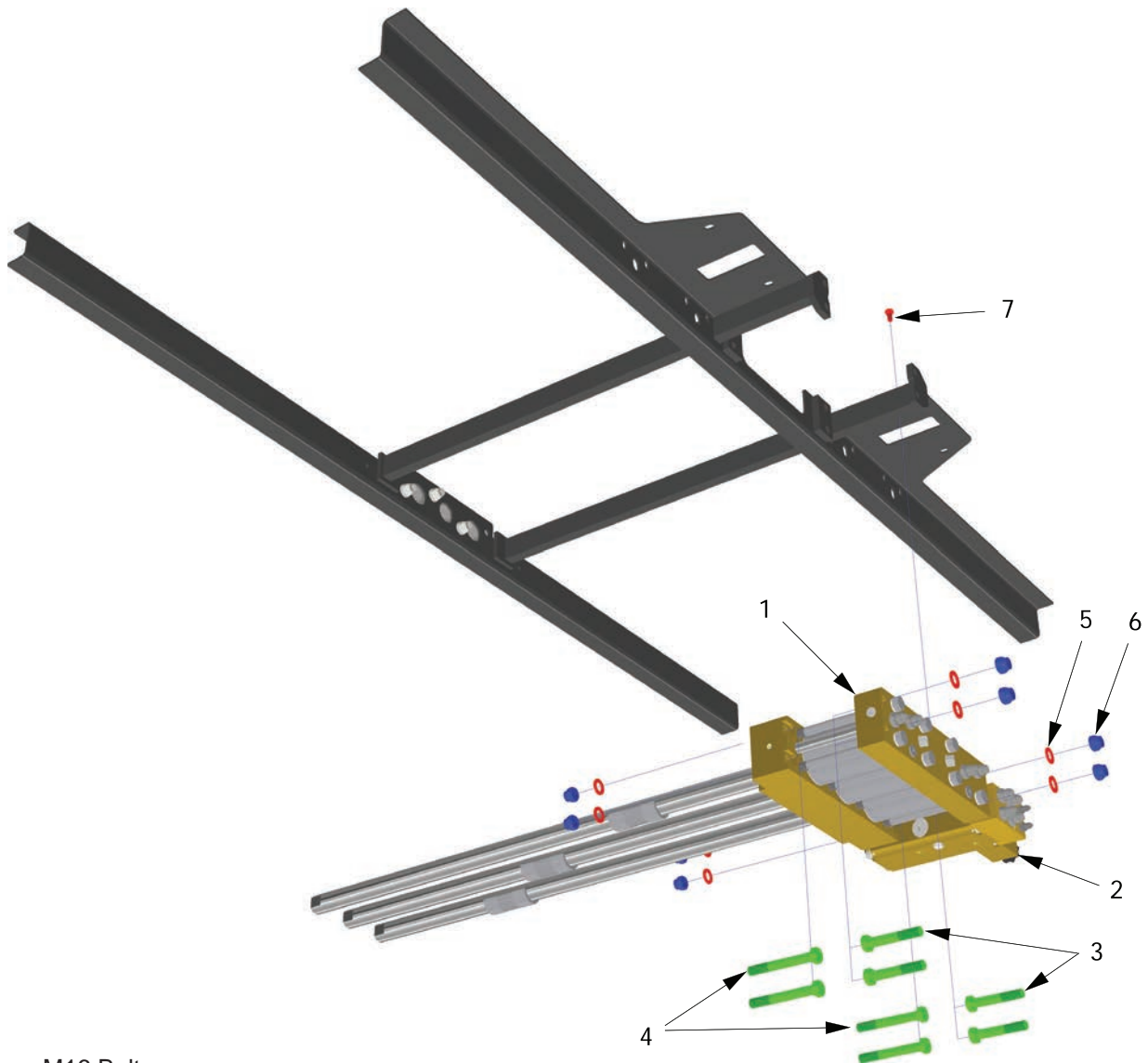
Cross-Drive Assembly



Cross Drive Assembly

ID#	Qty	Part #	Description
1	(1)	05129002	Cross-Drive Assembly (18 Slat/3.65" Cylinder Centers) (Includes Items 2-6)
		05129202	Cross-Drive Assembly (18 Slat/97mm Cylinder Centers) (Includes Items 2-6)
		05225902	Cross-Drive Assembly (21 Slat/3.65" Cylinder Centers) (Includes Items 2-6)
		05129302	Cross-Drive Assembly (21 Slat/97mm Cylinder Centers) (Includes Items 2-6)
		05194902	Cross-Drive Assembly (24 Slat/3.65" Cylinder Centers) (Includes Items 2-6)
		05150502	Cross-Drive Assembly (24 Slat/97mm Cylinder Centers) (Includes Items 2-6)
2	Varies	05037702	Drive Shoe Nut Bar
3	Varies	86651450	Roll Pin 1/4" x 1-1/2"
4	2	04433001	Lower Cross-Drive Clamp
5	4	87016520	Bolt M1 6x 55 mm
6	4	86559090	Nord-lock Washer 5/8"

Cylinder Pack Installation Hardware



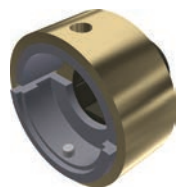
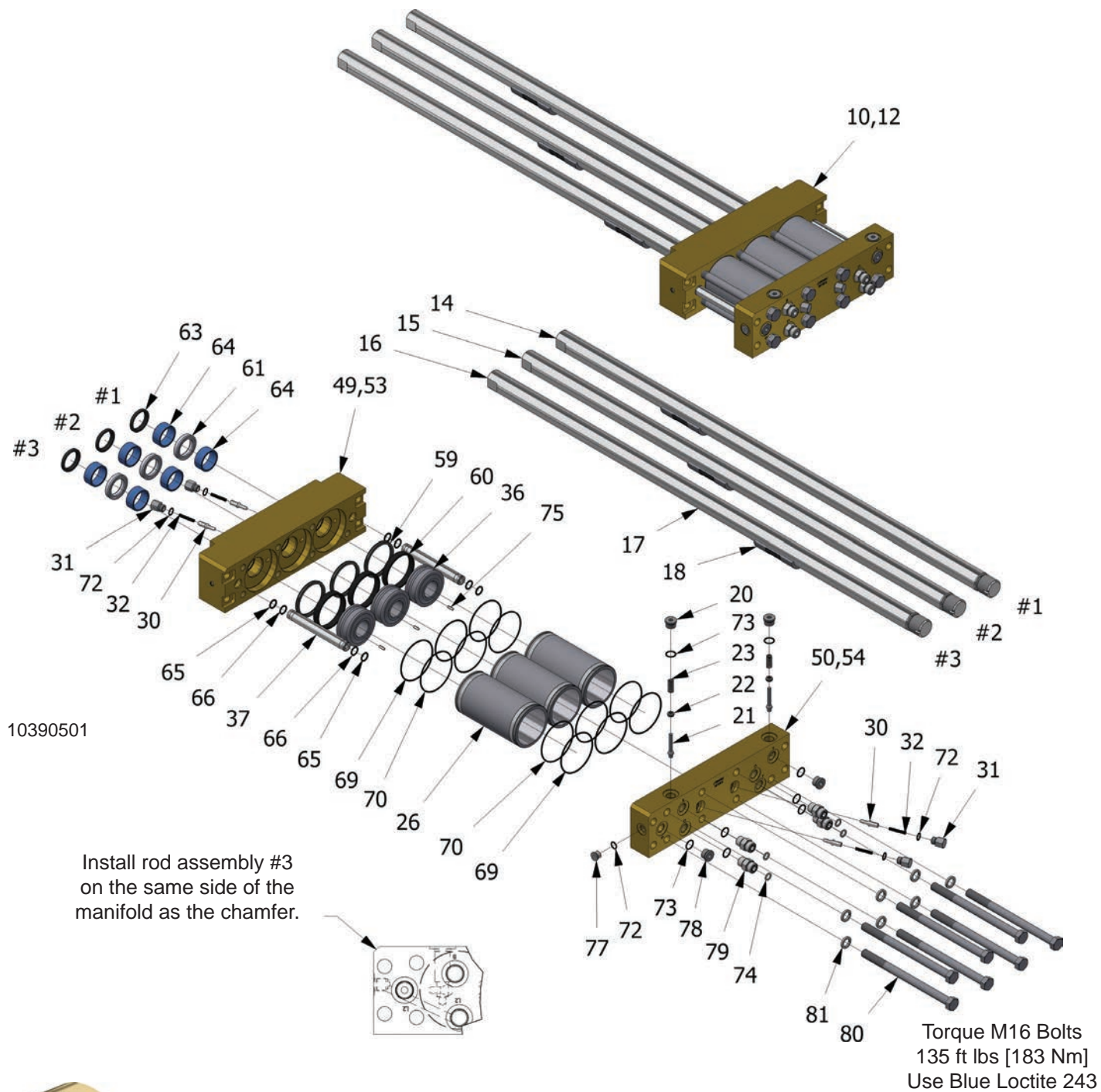
Torque M16 Bolts
135 ft lbs [183 Nm]

7424001

Cylinder Pack Installation Hardware

ID#	Qty	Part #	Description
1	(1)	-	Cylinder Pack Assembly (See Explosions)
2	(1)	-	Switching Valve Assembly (See Explosions)
3	4	87017600	Bolt 16 mm x 90 mm
4	4	87018500	Bolt 16 mm x 120 mm
5	8	87077500	Flat Washer 16 mm
6	8	87103010	Nylock Nut 16 mm
7	1	87008470	Bolt Hex 10.9 10MM-1.5 X 20MM ZN HCS (Switching Valve)

Cylinder Pack Assembly KMD 300 - ORFS



KMD300 Piston
Socket Tool
#08958401

Use hydraulic oil or Vaseline to lubricate seals.
Do NOT use grease!
Do NOT use Teflon tape!

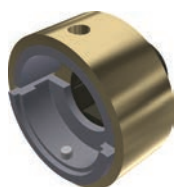
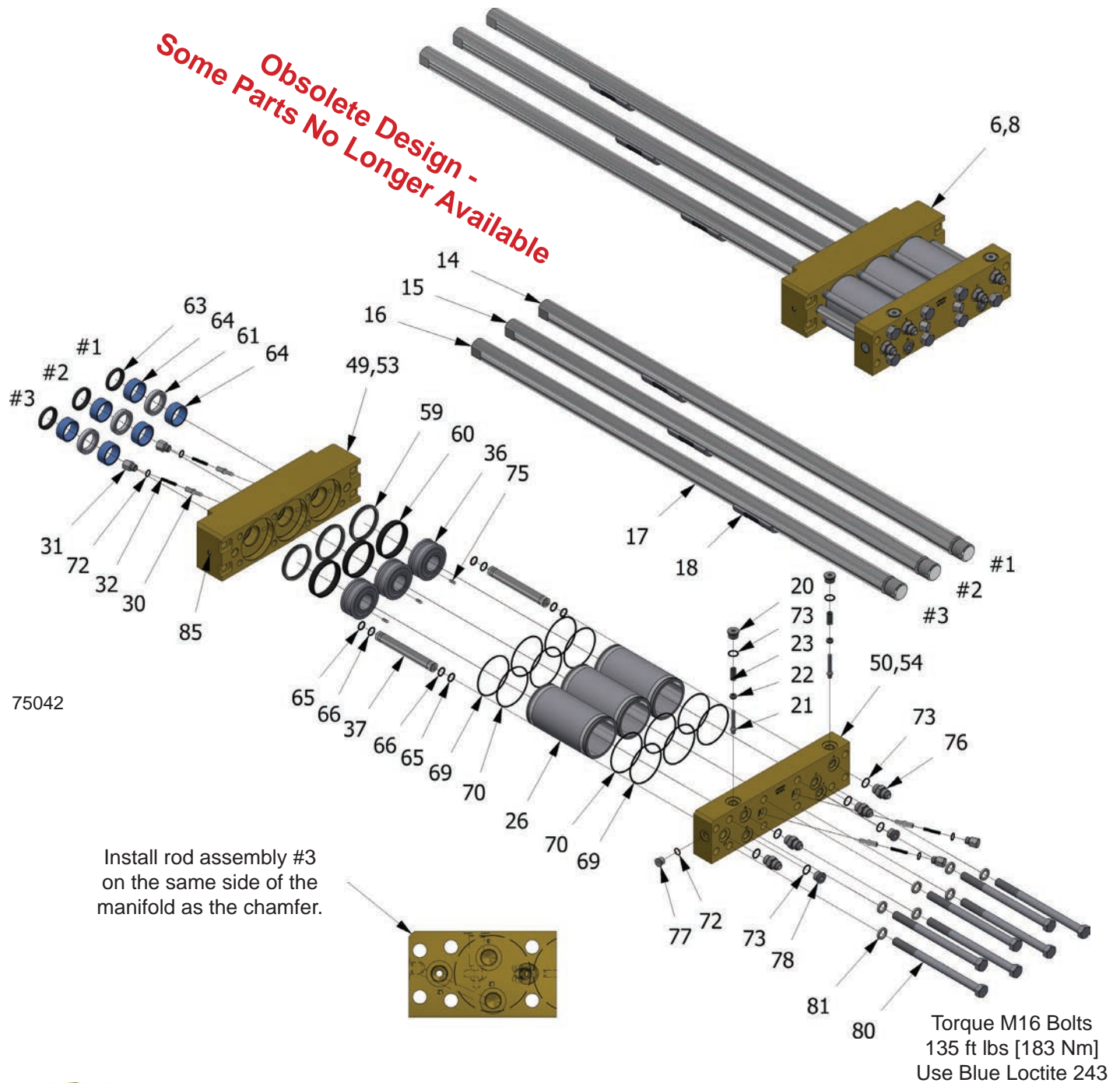


KMD Nose Cone
#05132801

Cylinder Pack Assembly KMD 300 - ORFS

ID#	Qty	3.65" SC Part #	97mm SC Part #	Description
10	(1)	10390501	-	Cylinder Pack Assembly - 3.65" SC, 5" Stroke, ORFS (Items below 14-84)
12		-	10390701	Cylinder Pack Assembly - 97 mm SC, 5" Stroke, ORFS (Items below 14-84)
14	1	05037401		Cross Drive Rod Assembly CYL #1 KMD Rod & Grooved Pad (Includes 17-18)
15	1	05037402		Cross Drive Rod Assembly CYL #2 KMD Rod & Grooved Pad (Includes 17-18)
16	1	05037403		Cross Drive Rod Assembly CYL #3 KMD Rod & Grooved Pad (Includes 17-18)
17	3	05037301		DRIVE ROD KMD MACHINE DETAIL 1-1/2" x 46-1/16
18	3	04432601		THREADED PAD 1.5" ROD KMD
19	(2)	08769001		Restrictor Valve Assembly (Includes Items 20-23 & 73)
20	1	05110601		PLUG HEX HOLLOW KMD RESTRICTOR -8 PLUG
21	1	05110701		ROD RESTRICTOR VALVE KMD
22	1	05110901		COLLAR RESTRICTOR VALVE KMD 250/300
23	1	84457000		SPRING COMPRESSION 71401 KMD
26	3	07392401		BARREL KMD 300B 5" STROKE ROD WEAR RINGS
28	(4)	08768901		Check Valve Assembly (Includes Items 30-32 & 72)
30	1	07504701		CHECK VALVE POPPET KMD250/300
31	1	06351701		HEX CAP EXTENDED -6 KMD175
32	1	84450220		SPRING COMPRESSION B3-43 KMD
36	3	07392501		PISTON ST SINGLE SEAL KMD300B
37	2	07393001		TRANSFER TUBE 3/4X6.06" KMD
49	1	07504301	-	FRONT MANIFOLD HEAD KMD300
50	1	07504501	-	REAR MANIFOLD W/ WEAR RINGS 3.65" SC 5" STROKE KMD300C
53	1	-	07817001	FRONT HEAD MANIFOLD KMD 300C 2 WEAR RINGS 97MM CC
54	1	-	07817201	REAR MANIFOLD KMD300C 2 WEAR RINGS 97MM CC
59	3	84350250		SEAL PISTON CP-334 3.0" KMD
60	3	84404600		WEAR RING KFR11 3.0 PISTON GRAY
61	3	84351001		SEAL ROD 1-1/2 PARKER KMD 4300BT25001500-375
63	3	84426001		WIPER ROD ø1.500 PARKER 4615SHD01500
64	6	84403705		WEAR RING 1.75X1.50X.750 PTFE BLUE
65	4	84376600		113 O-RING BUNA 90
66	4	84389013		113 O-RING BACKUP BUNA 90
69	6	84378452		152 O-RING BUNA 90
70	6	84389052		152 BACK-UP BUNA 90
72	5	84386800		906 O-RING BUNA 90
73	8	84387000		908 O-RING BUNA 90
74	4	84375215		016 O-RING N1490-90 #8 FACE SEAL NITRILE
75	3	86650400		PIN DRIVE LOCK 3/16" X 1/2"
77	1	84687400		06 HP50N-S HOLLOW HEX PLUG M O-RING HEX SOCKET
78	2	84687500		08 HP50N-S HOLLOW HEX PLUG M O-RING
79	4	84685683		08 F5OLO-S 8-8 STRAIGHT THREAD CONNECTOR FACE SEAL
80	7	87019300		Hex Bolt - M16 x 2 x 233
81	7	87078000		WASHER LOCK HIGH COLLAR 16mm
85	2	85101136		10MM EXPANDER PLUG (included in manifold)
-	-	05367902		Seal Kit Cylinder Pack KMD 300 - JIC & ORFS (Includes items 59-75)
-	-	08958401		Piston Socket Tool KMD300
-	-	05132801		Nose Cone Tool

Cylinder Pack Assembly KMD 300 - JIC (Post May 2016)



KMD300 Piston
Socket Tool
#08958401

Use hydraulic oil or Vaseline to lubricate seals.
Do NOT use grease!
Do NOT use Teflon tape!



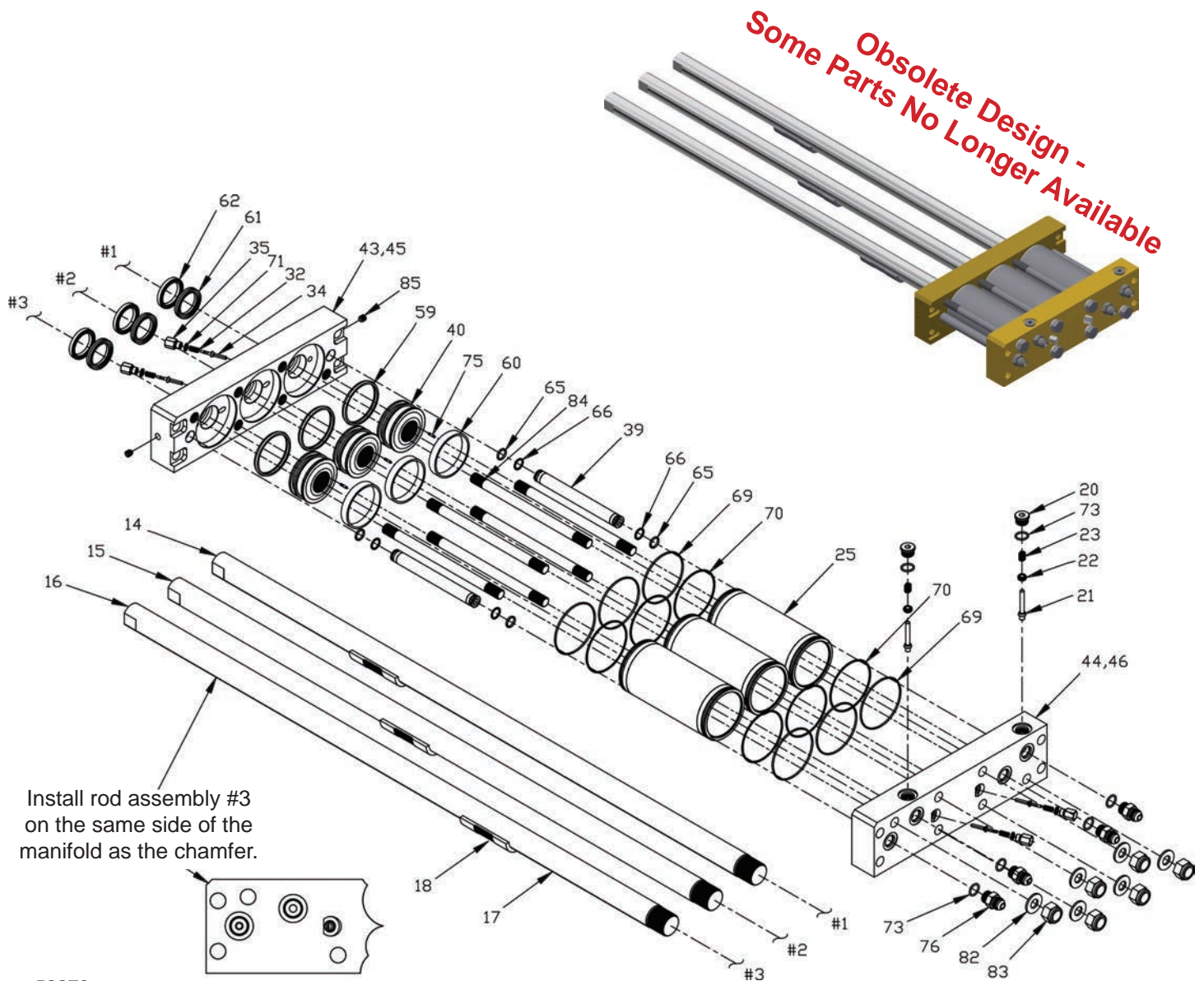
KMD Nose Cone
#05132801

Cylinder Pack Assembly KMD 300 - JIC (Post May 2016)

ID#	Qty	3.65" SC Part #	97mm SC Part #	Description
6	(1)	07504201	-	Cylinder Pack Assembly - 3.65" SC, 5" Stroke, JIC (Items below 14-84)
8		-	07816901	Cylinder Pack Assembly - 97 mm SC, 5" Stroke, JIC (Items below 14-84)
14	1	05037401		Cross Drive Rod Assembly CYL #1 KMD Rod & Grooved Pad (Includes 17-18)
15	1	05037402		Cross Drive Rod Assembly CYL #2 KMD Rod & Grooved Pad (Includes 17-18)
16	1	05037403		Cross Drive Rod Assembly CYL #3 KMD Rod & Grooved Pad (Includes 17-18)
17	3	05037301		DRIVE ROD 1-1/2X46-13/16 KMD
18	3	04432601		THREADED PAD 1.5" ROD KMD
19	(2)	08769001		Restrictor Valve Assembly (Includes Items 20-23 & 73)
20	1	05110601		PLUG HEX HOLLOW KMD RESTRICTOR -8 PLUG
21	1	05110701		ROD RESTRICTOR VALVE KMD
22	1	05110901		COLLAR RESTRICTOR VALVE KMD 250/300
23	1	84457000		SPRING COMPRESSION 71401 KMD
26	3	07392401		CYL BARREL 5" STROKE MD300
28	(4)	08768901		Check Valve Assembly (Includes Items 30-32 & 72)
30	1	07504701		Check Valve Poppet KMD 250/300
31	1	06351701		-6 EXTENDED HEX CAP
32	1	84450220		Spring B3-43
36	3	07392501		PISTON ST SINGLE SEAL KMD300B
37	2	07393001		HYD TUBE 3/4X6.06" KMD
49	1	07504301	-	FRONT HEAD MANIFOLD
50	1	07504501	-	REAR MANIFOLD W/ WEAR RINGS, 5" STROKE KMD300C
53	1	-	07817001	FRONT HEAD MANIFOLD
54	1	-	07817201	REAR MANIFOLD W/ WEAR RINGS, 5" STROKE KMD300C
59	3	84350250		SEAL PISTON CP-334 3.0" KMD
60	3	84404600		WEAR RING 3.0" PISTON R2
61	3	84351001		SEAL ROD 1-1/2 PARKER KMD 4300BT25001500-375
63	3	84426001		ROD WIPER Ø1.500 PARKER 4615SHD01500
64	6	84403705		WEAR RING 1.75 X .750 X .125
65	4	84376600		113 O-RING BUNA 90
66	4	84389013		113 BACK-UP BUNA 90
69	6	84378452		152 O-RING BUNA 90
70	6	84389052		152 BACK-UP BUNA 90
72	5	84386800		906 O-RING BUNA 90
73	8	84387000		908 O-RING BUNA 90
75	3	86650400		PIN DRIVE LOCK 3/16" X 1/2"
76	4	84684300		08 F5OX-S STRAIGHT THREAD CONNECTOR MJIC X M O-RING
77	1	84687400		06 HP5ON-S HOLLOW HEX PLUG M O-RING HEX SOCKET
78	2	84687500		08 HP5ON-S HOLLOW HEX PLUG M O-RING
80	7	87019300		Hex Bolt - M16 x 2 x 233
81	7	87078000		WASHER LOCK HIGH COLLAR 16mm
85	2	85101136		10MM EXPANDER PLUG (included in manifold)
-	-	05367902		Seal Kit Cylinder Pack KMD 300 - JIC & ORFS (Includes items 59-75)
-	-	08958401		Piston Socket Tool KMD300
-	-	05132801		Nose Cone Tool

Obsolete Design -
Some Parts No Longer Available

Cylinder Pack Assembly KMD 300 - JIC (Pre May 2016)



52279

Torque M16 Bolts
135 ft lbs [183 Nm]
Use Blue Loctite 243



KMD300 Piston
Socket Tool
#08958401



Stroke Limit Sleeve
50MM #05428201

Use hydraulic oil or Vaseline to lubricate seals.
Do NOT use grease!
Do NOT use Teflon tape!



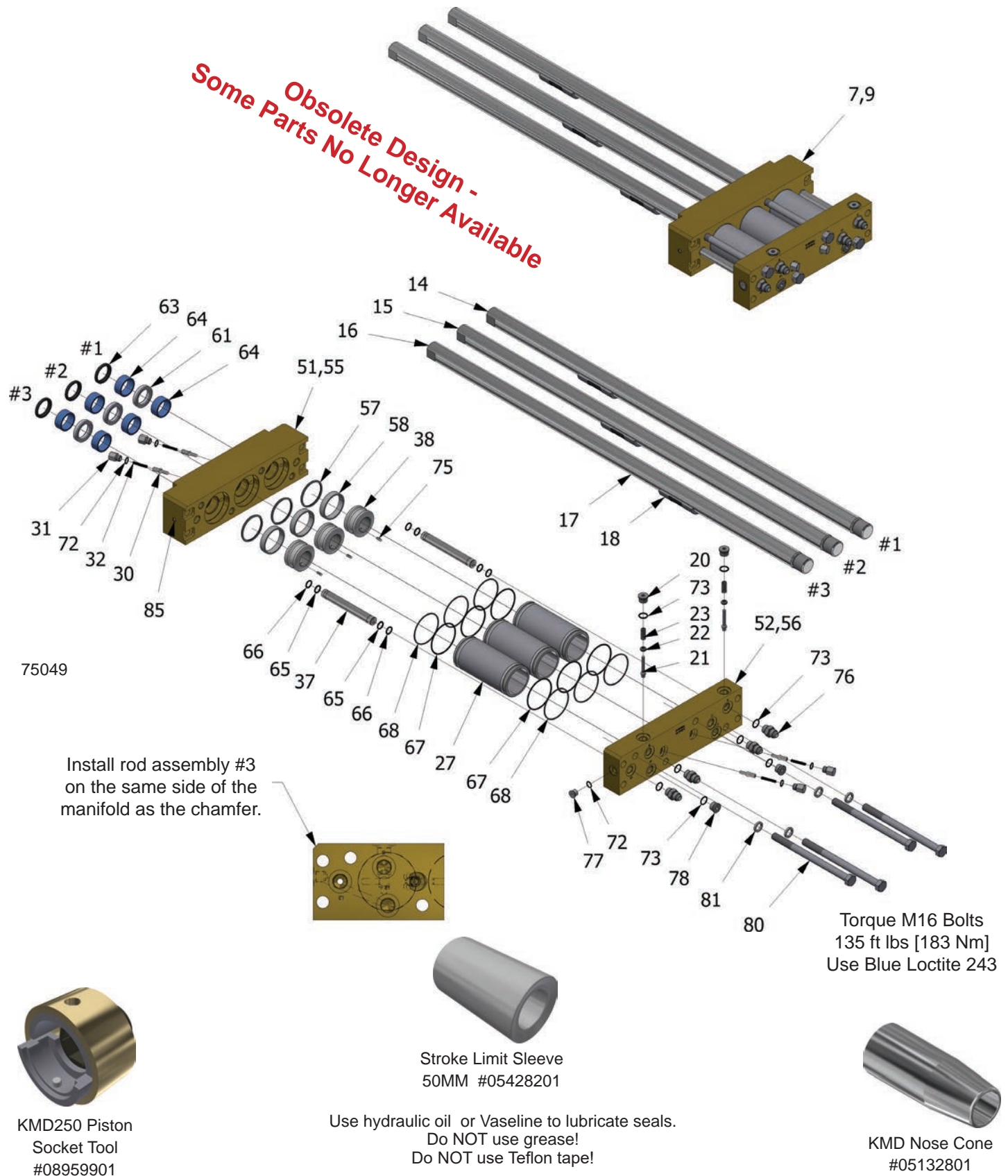
KMD Nose Cone
#05132801

Cylinder Pack Assembly KMD 300 - JIC (Pre May 2016)

ID#	Qty	3.65" SC Part #	97mm SC Part #	Description
4		05227901	-	Cylinder Pack Assembly - 3.65" SC, 6" Stroke, JIC (Items below 14-84)
2	(1)	-	05227701	Cylinder Pack Assembly - 97 mm SC, 6" Stroke, JIC (Items below 14-84)
-		-	05248801	Cylinder Pack Assembly - 97mm SC, 50mm Stroke, JIC (Items below 14-84 +85)
14	1	05037401		Cross Drive Rod Assembly CYL #1 KMD Rod & Grooved Pad (Includes 17-18)
15	1	05037402		Cross Drive Rod Assembly CYL #2 KMD Rod & Grooved Pad (Includes 17-18)
16	1	05037403		Cross Drive Rod Assembly CYL #3 KMD Rod & Grooved Pad (Includes 17-18)
17	3	05037301		DRIVE ROD 1-1/2X46-13/16 KMD
18	3	04432601		THREADED PAD 1.5" ROD KMD
19	(2)	08769001		Restrictor Valve Assembly (Includes Items 20-23 & 73)
20	1	05110601		PLUG HEX HOLLOW KMD RESTRICTOR -8 PLUG
21	1	05110701		ROD RESTRICTOR VALVE KMD
22	1	05110901		COLLAR RESTRICTOR VALVE KMD 250/300
23	1	84457000		SPRING COMPRESSION 71401 KMD
25	3	05120101		BARREL KMD 3" X 7.431"
29	(4)	05368101		Check Valve Assembly (Includes Items 32-35 & 71)
32	1	84450220		SPRING COMPRESSION B3-43 KMD
34	1	05134901		Poppet Check Valve Old 5/16 DIA
35	1	05135001		MANIFOLD CKV STRETCHED CAP KMD 250 300 -04
39	2	04535501		TUBE ASSY 3/4" X 7-1/16" PD
40	3	05128701		PISTON SINGLE SEAL 3" KMD
43	1	-	05110302	FRONT MANIFOLD KMD 300 97MM CC
44	1	-	05110401	REAR MANIFOLD KMD 300 97MM CC
45	1	05125302	-	FRONT MANIFOLD KMD 300 3.65"CC
46	1	05125401	-	REAR MANIFOLD KMD 300 3.65" CC
59	3	84350250		SEAL PISTON CP-334 3.0" KMD
60	3	84404600		WEAR RING KFRII 3.0 PISTON GRAY
61	3	84351001		SEAL ROD 1-1/2 PARKER KMD 4300BT25001500-375
62	3	84426000		WIPER ROD CYL 1-1/2" x 2-1/4" KWF KMD CANNED
65	4	84376600		113 O-RING BUNA 90
66	4	84389013		113 O-RING BACKUP BUNA 90
69	6	84378452		152 O-RING BUNA 90
70	6	84389052		152 O-RING BACKUP BUNA 90
71	4	84386600		904 O-RING BUNA 90
73	6	84387000		908 O-RING BUNA 90
75	3	86650400		PIN DRIVE LOCK 3/16" X 1/2" U DEC ZINC #F01028
76	4	84684300		08 F5OX-S STRAIGHT THREAD CONNECTOR MJIC X M O-RING
82	4	87077500		WASHER FLAT 16MM
83	4	87103010		NUT HEX NYLOCK 16MM
84	6	05037201		TIE BOLT 16MM X 10" MET
85	2	84680780		1/8 HHP-S PLUG PIPE SOCKET 1/8 7/8 TAPER (included in manifold)
86	3	-	05428201	STROKE LIMIT SLEEVE 50 mm
-	-	05367902		Seal Kit Cylinder Pack KMD 300 - JIC & ORFS (Includes items 59-75)
-	-	08958401		Piston Socket Tool KMD300
-	-	05132801		Nose Cone Tool

Obsolete Design -
Some Parts No Longer Available

Cylinder Pack Assembly KMD 250 - JIC (Post May 2016)



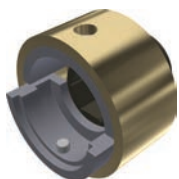
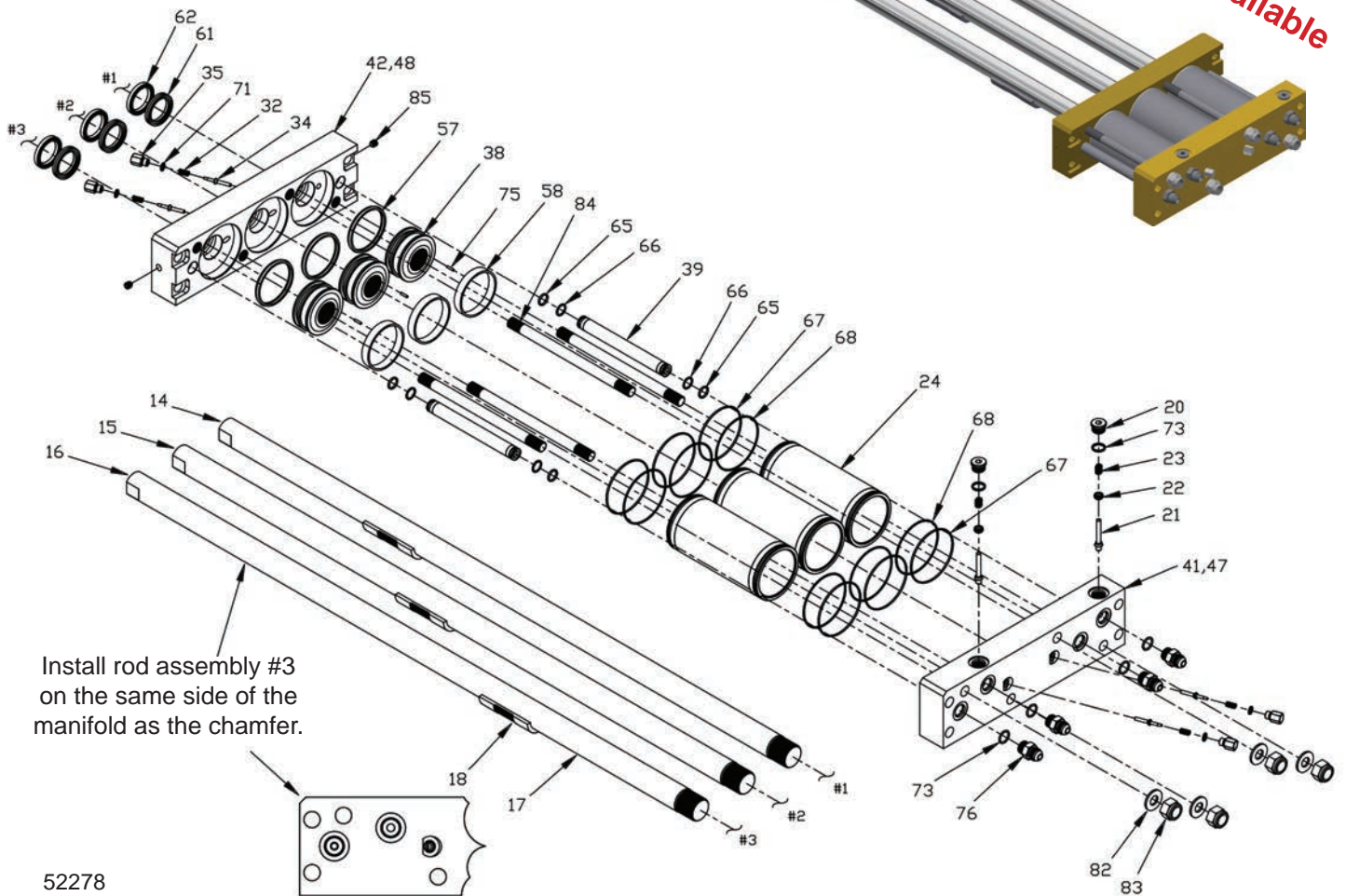
Cylinder Pack Assembly KMD 250 - JIC (Post May 2016)

ID#	Qty	3.65" SC Part #	97mm SC Part #	Description
7		07504902	-	Cylinder Pack Assembly - 3.65" SC, 5" Stroke, JIC (Items below 14-84)
9	(1)	-	07817401	Cylinder Pack Assembly - 97 mm SC, 5" Stroke, JIC (Items below 14-84)
-		-	05431001	Cylinder Pack Assembly - JIC, 50 mm Stroke (Items below 14-84, +85)
14	1	05037401		Cross Drive Rod Assembly CYL #1 KMD Rod & Grooved Pad (Includes 17-18)
15	1	05037402		Cross Drive Rod Assembly CYL #2 KMD Rod & Grooved Pad (Includes 17-18)
16	1	05037403		Cross Drive Rod Assembly CYL #3 KMD Rod & Grooved Pad (Includes 17-18)
17	3	05037301		DRIVE ROD 1-1/2X46-13/16 KMD
18	3	04432601		THREADED PAD 1.5" ROD KMD
19	(2)	08769001		Restrictor Valve Assembly (Includes Items 20-23 & 73)
20	1	05110601		PLUG HEX HOLLOW KMD RESTRICTOR -8 PLUG
21	1	05110701		ROD RESTRICTOR VALVE KMD
22	1	05110901		COLLAR RESTRICTOR VALVE KMD 250/300
23	1	84457000		SPRING COMPRESSION 71401 KMD
27	3	07401901		CYL BARREL 5" STROKE MD250
28	(4)	08768901		Check Valve Assembly (Includes Items 30-32 & 72)
30	1	07504701		Check Valve Poppet KMD 250/300
31	1	06351701		-6 EXTENDED HEX CAP
32	1	84450220		Spring B3-43
37	2	07393001		HYD TUBE 3/4X6.06" KMD
38	3	04432301		PISTON SINGLE SEAL 2.5" KMD
51	1	07505001	-	2-1/2" FRONT HEAD MANIFOLD, 2 WEAR RINGS
52	1	07505201	-	REAR MANIFOLD W/ WEAR RINGS, 5" STROKE
55	1	-	07817501	2-1/2" FRONT HEAD MANIFOLD, 2 WEAR RINGS
56	1	-	07817701	REAR MANIFOLD W/ WEAR RINGS, 5" STROKE
57	3	84350300		SEAL PISTON CP-228 2.5" CROWN
58	3	84403600		WEAR RING W125-2500-500
61	3	84351001		SEAL ROD CYL 001-115 KWF KMD
63	3	84426001		ROD WIPER Ø1.500 PARKER 4615SHD01500
64	6	84403705		WEAR RING 1.75 X .750 X .125
65	4	84376600		113 O-RING BUNA 90
66	4	84389013		113 BACK-UP BUNA 90
67	6	84378449		149 O-Ring Buna 90
68	6	84389049		8-149 RING O-RING BACK-UP PARKER PARBAK
72	5	84386800		906 O-RING BUNA 90
73	6	84387000		908 O-RING BUNA 90
75	3	86650400		PIN DRIVE LOCK 3/16" X 1/2"
76	4	84684300		08 F5OX-S STRAIGHT THREAD CONNECTOR MJIC X M O-RING
77	1	84687400		06 HP5ON-S HOLLOW HEX PLUG M O-RING HEX SOCKET
78	2	84687500		08 HP5ON-S HOLLOW HEX PLUG M O-RING
80	4	87019300		Hex Bolt - M16 x 2 x 233
81	4	87078000		WASHER LOCK HIGH COLLAR 16mm
85	1	85101136		10MM EXPANDER PLUG (included in manifold)
86	3	-	05428201	STROKE LIMIT SLEEVE 50 MM
-	-	05367801		Seal Kit Cylinder Pack KMD 250 - JIC (Includes items 57-75)
-	-	08959901		Piston Socket Tool KMD250
-	-	05132801		Nose Cone Tool

Obsolete Design -
Some Parts No Longer Available

Cylinder Pack Assembly KMD 250 - JIC (Pre May 2016)

**Obsolete Design -
Some Parts No Longer Available**



KMD250 Piston
Socket Tool
#08959901

Use hydraulic oil or Vaseline to lubricate seals.
Do NOT use grease!
Do NOT use Teflon tape!



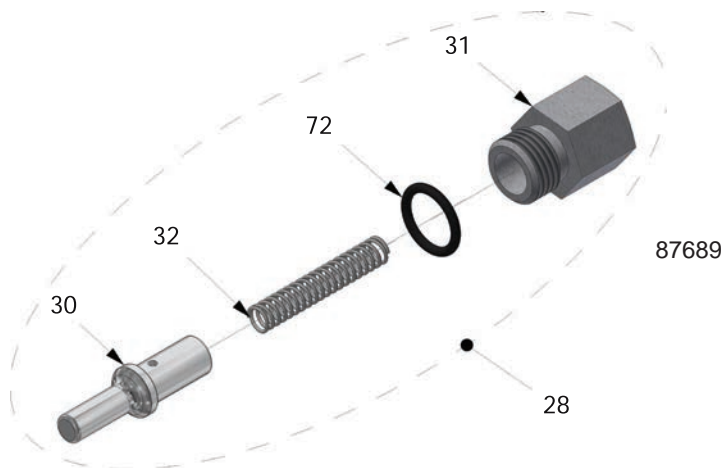
KMD Nose Cone
#05132801

Cylinder Pack Assembly KMD 250 - JIC (Pre May 2016)

ID#	Qty	3.65" SC Part #	97mm SC Part #	Description
1	(1)	-	05153801	Cylinder Pack Assembly - 97 mm SC, 6" Stroke, JIC (Items below 14-84)
3		05227801	-	Cylinder Pack Assembly - 3.65" SC, 6" Stroke, JIC (Items below 14-84)
14	1	05037401		Cross Drive Rod Assembly CYL #1 KMD Rod & Grooved Pad (Includes 17-18)
15	1	05037402		Cross Drive Rod Assembly CYL #2 KMD Rod & Grooved Pad (Includes 17-18)
16	1	05037403		Cross Drive Rod Assembly CYL #3 KMD Rod & Grooved Pad (Includes 17-18)
17	3	05037301		DRIVE ROD 1-1/2X46-13/16 KMD
18	3	04432601		THREADED PAD 1.5" ROD KMD
19	(2)	08769001		Restrictor Valve Assembly (Includes Items 20-23 & 73)
20	1	05110601		PLUG HEX HOLLOW KMD RESTRICTOR -8 PLUG
21	1	05110701		ROD RESTRICTOR VALVE KMD
22	1	05110901		COLLAR RESTRICTOR VALVE KMD 250/300
23	1	84457000		SPRING COMPRESSION 71401 KMD
24	3	04432201		BARREL KMD PONY 2.5" X 7.431"
29	(4)	05368101		Check Valve Assembly (Includes Items 32-35 & 71)
32	1	84450220		SPRING COMPRESSION B3-43 KMD
34	1	05134901		Poppet Check Valve KMD 250 300 Old 5/16 DIA
35	1	05135001		MANIFOLD CKV STRETCHED CAP KMD 250 300 -04
38	3	04432301		PISTON SINGLE SEAL 2.5" KMD
39	2	04535501		TUBE ASSY 3/4" X 7-1/16" PD
41	1	-	05036202	FRONT MANIFOLD FRONT KMD 250 97MM CC
42	1	-	05036301	REAR MANIFOLD KMD 250 97MM CC
47	1	05125201	-	REAR MANIFOLD KMD 250 3.65"CC
48	1	05125102	-	Front Manifold Head KMD250 3.65CC
57	3	84350300		SEAL PISTON CP-228 2.5" KMD 2-1/4X2-1/2X1/8 CROWN
58	3	84403600		WEAR RING W125-2500-500 KMD
61	3	84351001		ROD SEAL 1-1/2 KWF 1-1/2x2x3/8
62	3	84426000		WIPER ROD CYL 1-1/2" x 2-1/4" KWF KMD CANNED
65	4	84376600		113 O-RING BUNA 90
66	4	84389013		113 O-RING BACKUP BUNA 90
67	6	84378449		149 O-RING BUNA 90
68	6	84389049		149 O-RING BACKUP BUNA 90
71	4	84386600		904 O-RING BUNA 90
73	6	84387000		908 O-RING BUNA 90
75	3	86650400		PIN DRIVE LOCK 3/16" X 1/2" U DEC ZINC #F01028
76	4	84684300		08-08 F5OX-S Straight Thread Connector MJIC X M O-RING (6400-08-08)
82	4	87077500		WASHER FLAT 16MM
83	4	87103010		NUT HEX NYLOCK 16MM
84	4	05037201		TIE BOLT 16MM X 10" MET
85	2	84680780		1/8 HHP-S PLUG PIPE SOCKET 1/8 7/8 TAPER (included in manifold)
-	-	05367801		Seal Kit Cylinder Pack KMD 250 - JIC (Includes items 57-75)
-	-	08959901		Piston Socket Tool KMD250
-	-	05132801		Nose Cone Tool

Obsolete Design -
Some Parts No Longer Available

Check Valve Assemblies



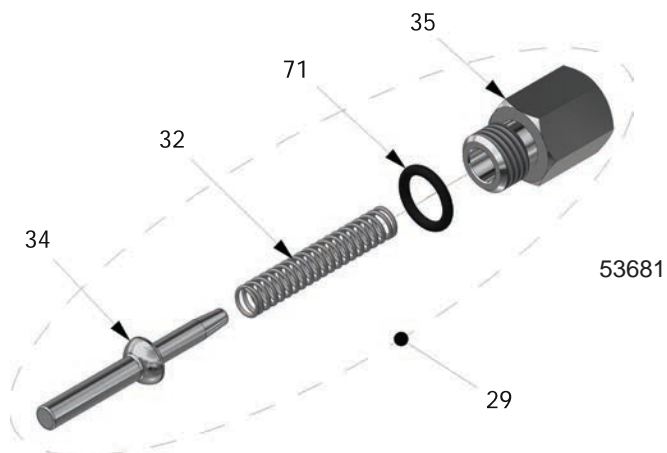
Check Valve Assembly - (Post May 2016)

ID#	Qty	Part #	Description
28	(1)	08768901	Check Valve Assembly (Includes Items 30-32 & 72)
30	1	07504701	Check Valve Poppet
31	1	06351701	Extended Hex Cap -6 (6/25/08)
32	1	84450220	Spring B3-43
72	1	84386800	906 O-Ring Buna 90

Use hydraulic oil or Vaseline to lubricate seals.

Do NOT use grease!

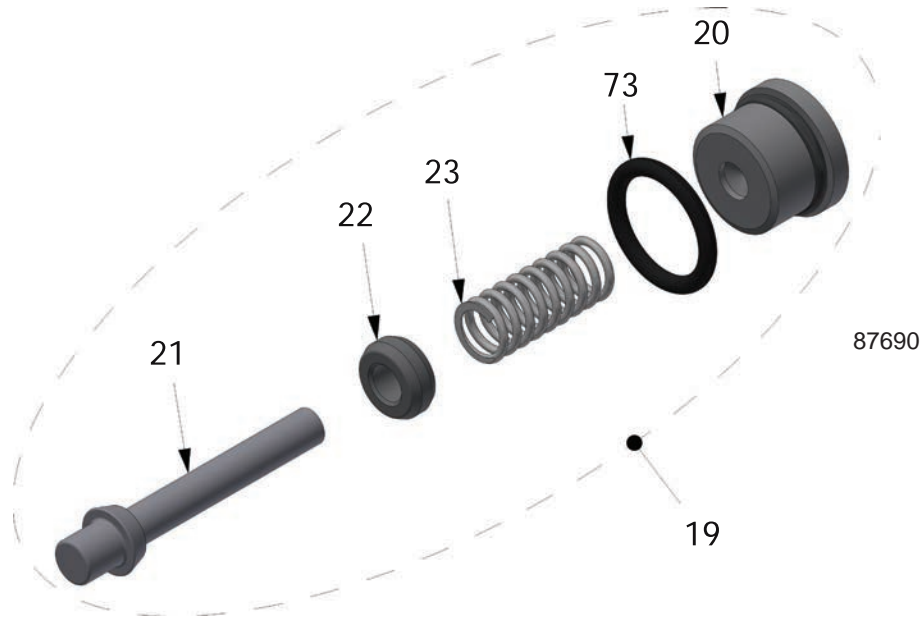
Do NOT use Teflon tape!



Check Valve Assembly - (Pre May 2016)

ID#	Qty	Part #	Description
29	(1)	05368101	Check Valve Assembly (Includes Items 32-35 & 71)
32	1	84450220	Spring B3-43
34	1	05134901	Check Valve Poppet 5/16"
35	1	05135001	MANIFOLD CKV STRETCHED CAP KMD 250 300 -04
71	1	84386600	904 O-Ring Buna 90

Restrictor Valve Assembly

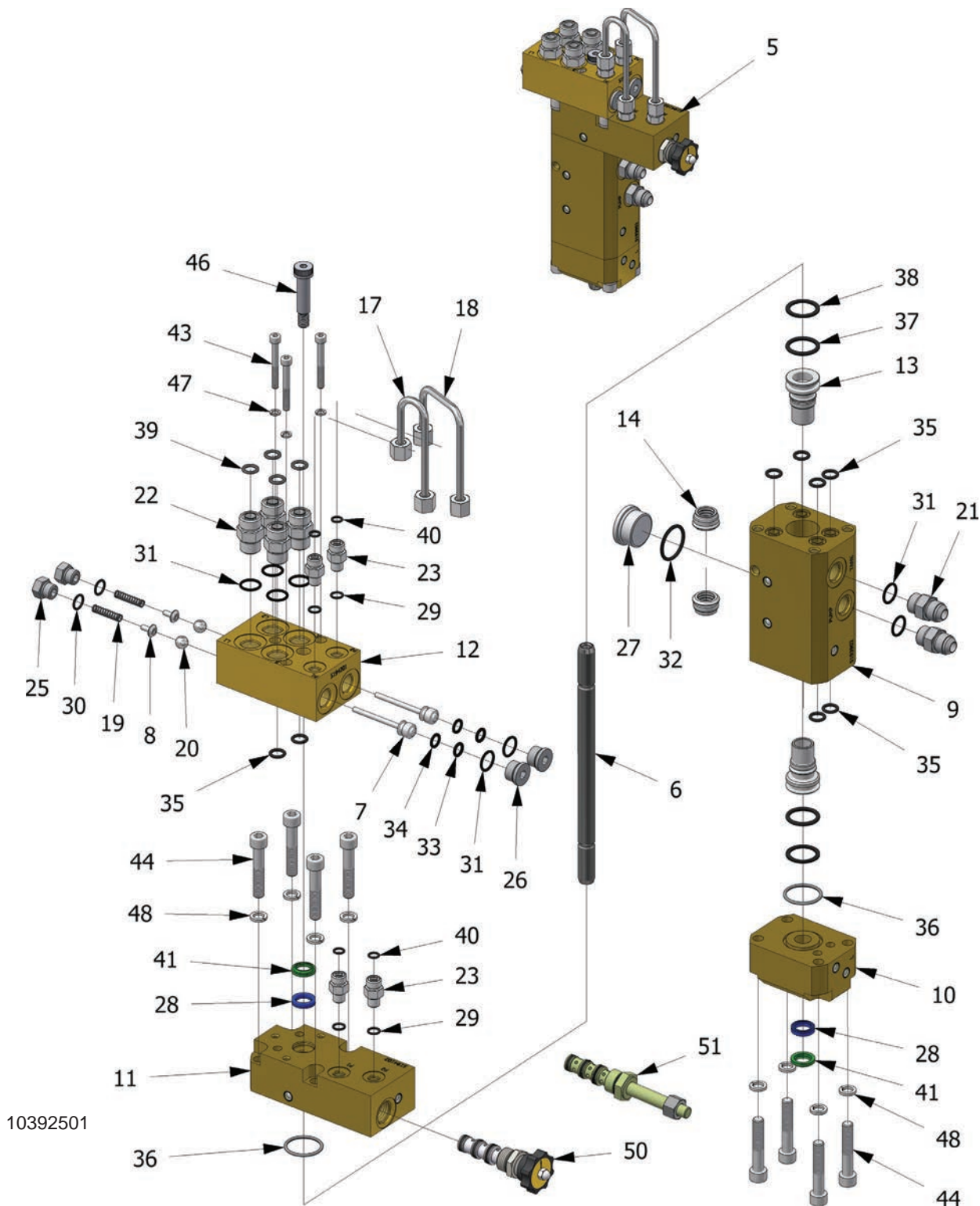


Use hydraulic oil or Vaseline to lubricate seals.
Do NOT use grease!
Do NOT use Teflon tape!

Restrictor Valve Assembly

ID#	Qty	Part #	Description
19	(1)	08769001	Restrictor Valve Assembly (Includes Items 20-23 & 73)
20	1	05110601	SAE O-Ring Hex Socket, -8, Parker
21	1	05110701	Restrictor Valve Rod
22	1	05110901	Restrictor Valve Collar
23	1	84457000	Spring 71401
73	3	84387000	908 O-RING BUNA 90

Switching Valve Assembly - ORFS



10392501

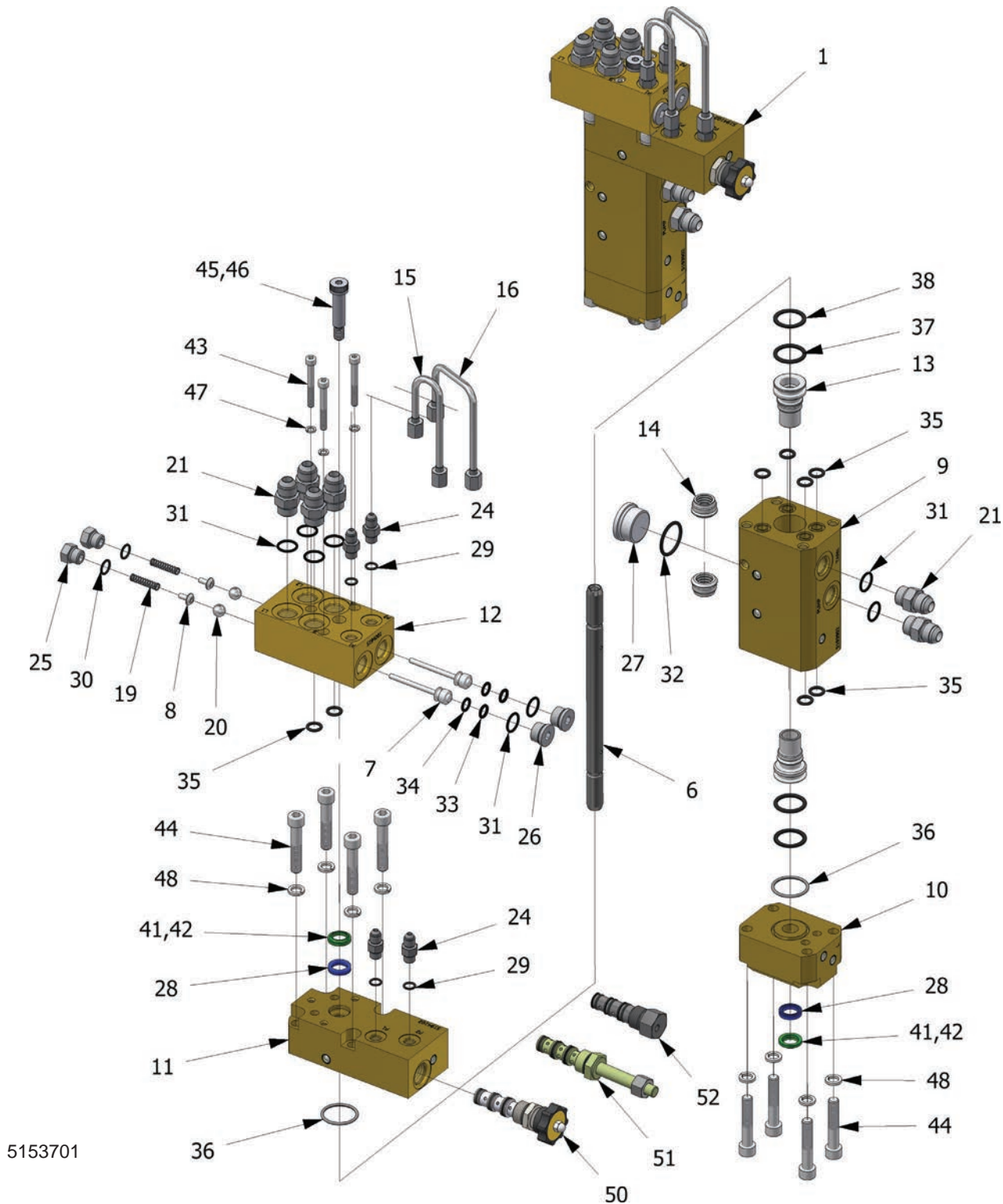
Use hydraulic oil or Vaseline to lubricate seals.
Do NOT use grease!
Do NOT use Teflon tape!

#53 Poppet
Installation Tool
05574701

Switching Valve Assembly - ORFS

ID#	Qty	Part #	Description
4	(1)	10392401	Switching Valve Assembly ORFS, Electric Control Valve (Includes 6-48 & 51)
5		10392501	Switching Valve Assembly ORFS, Manual Control Valve (Includes 6-48 & 50)
6	1	01335502	POPPET SWITCHING VALVE ROD
7	2	05110501	9/16" CHECK VALVE POPPET STRETCHED CONTROL VALVE
8	2	05110801	SPRING FOLLOWER, STRETCHED CTRL VLV, MINI DRIVE
9	1	05193902	KMD SWITCHING VALVE BODY 10 GPM
10	1	05194001	LEFT END CAP, KMD SWITCHING VALVE 10 GPM
11	1	05194102	RIGHT END CAP KMD SWITCHING VALVE W/SV10-40 10 GPM
12	1	05194201	BODY INTEGRATED CONTROL VALVE, KMD 250/300 SWITCHING VALVE
13	2	05194301	POPPET KMD SWITCHING VALVE
14	2	05194401	POPPET RING
17	1	10390901	TUBE 1/4 KMD FACE SEAL SWITCHING VALVE P1 TO P1
18	1	10391001	TUBE 1/4 KMD FACE SEAL SWITCHING VALVE P2 TO P2
19	2	84450850	SPRING SMALL I-65 KMD
20	2	84800530	BALL 15/32 CHROME ST KMD250/300
21	2	84684300	08 F5OX-S STRAIGHT THREAD CONNECTOR MJIC X M O-RING
22	4	84685683	-8 F5OLO-S 8-8 STRAIGHT THREAD CONNECTOR, FACE SEAL
23	4	84703922	-4 F5OLO-S ORFS/SAE-ORB
25	2	84686600	06 P5ON-S HEX HEAD PLUG M O-RING HEX CAP
26	2	84687500	08 HP5ON-S HOLLOW HEX PLUG M O-RING
27	1	84687900	16 HP5ON-S HOLLOW HEX PLUG M O-RING HEX SOCKET
-	-	05368001	Seal Kit Switching Valve Assembly JIC & ORFS (Includes items 28-41, 53 & 85108798)
28	2	84352200	SEAL ROD 5/8" CHECK VALVE EXTERNAL
29	4	84386600	904 O-RING BUNA 90
30	2	84386800	906 O-RING BUNA 90
31	8	84387000	908 O-RING BUNA 90
32	1	84387800	916 O-RING BUNA 90
33	2	84376000	110 O-RING BUNA 90
34	2	84388890	110 BACK-UP BUNA 90
35	8	84376200	111 O-RING BUNA 90
36	2	84378000	124 O-RING BUNA-N 90 DURO
37	2	84381600	214 O-RING Buna 90
38	2	84391400	8-214 BACK-UP BUNA 90
39	4	84375215	O-RING 2-016 #8 N1490-90 FACE SEAL NITRILE
40	4	84375200	011 O-RING BUNA 90
41	2	84426800	WIPER CHECK VALVE EXTERNAL 5/8"
43	3	87004410	BOLT SOCKET HEAD 6MMX50MM
44	8	87008537	BOLT SOCKET HEAD 10MMX55MM
46	1	87012460	M10x40mm SHOULDER BOLT
47	3	87075510	WASHER LOCK HIGH COLLAR 6mm
48	8	87076510	WASHER LOCK HIGH COLLAR 10mm
50	1	85105200	CARTRIDGE VALVE, MRV4-10
51		85108800	VALVE CART. SV10-40M-0-N-00 HF
-	-	85108798	Seal Kit for Cartridge Valves (#50 & #51)
53	1	05574701	KMD POPPET SEAL INSTALLATION TOOL

Switching Valve Assembly - JIC



5153701

Use hydraulic oil or Vaseline to lubricate seals.
Do NOT use grease!
Do NOT use Teflon tape!

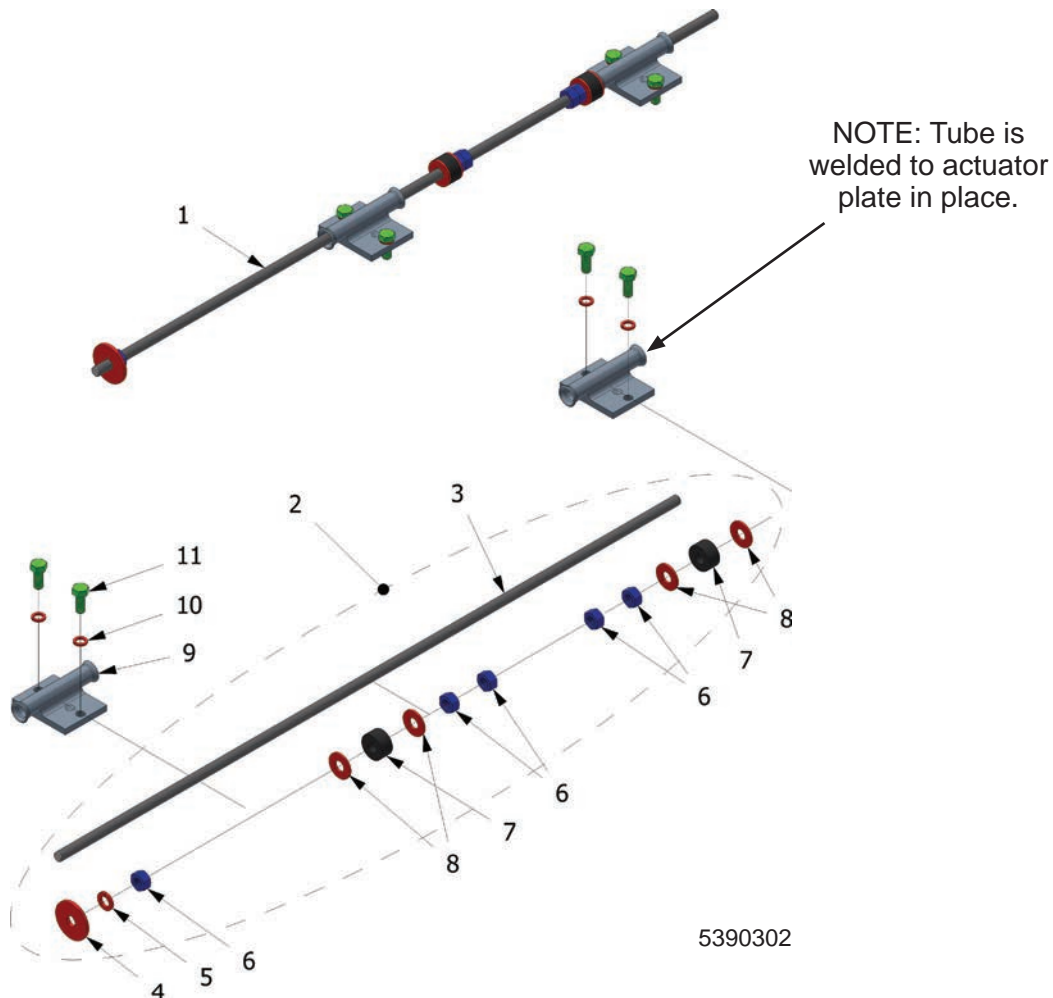


#53 Poppet
Installation Tool
05574701

Switching Valve Assembly - JIC

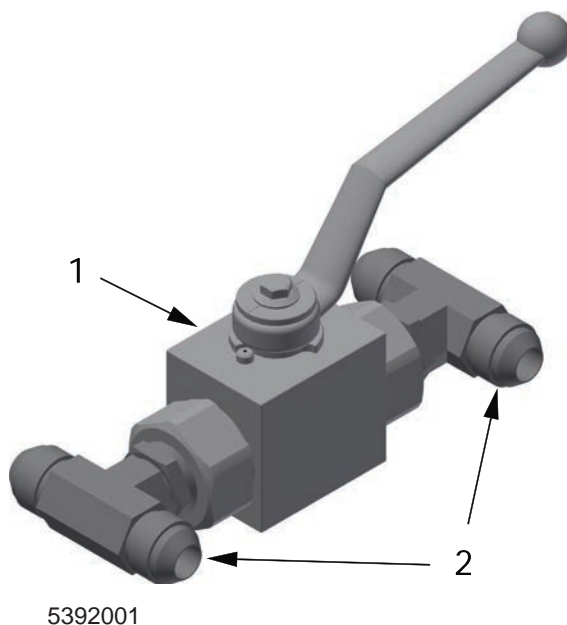
ID#	Qty	Part #	Description
1	(1)	05153701	Switching Valve Assembly, Manual Control Valve (Includes 6-48 & 50)
2		05153702	Switching Valve Assembly, Electric Control Valve (Includes 6-48 & 51)
3		05153704	Switching Valve Assembly One Way Control Valve (Includes 6-48 & 52)
6	1	01335502	POPPET SWITCHING VALVE ROD
7	2	05110501	9/16" CHECK VALVE POPPET STRETCHED CONTROL VALVE
8	2	05110801	SPRING FOLLOWER, STRETCHED CTRL VLV, MINI DRIVE
9	1	05193902	SWITCHING VALVE BODY, KMD 250/300
10	1	05194001	LEFT END CAP, SWITCHING VALVE, KMD 250/300
11	1	05194102	RIGHT END CAP, SWITCHING VALVE, KMD 250/300
12	1	05194201	INTEGRATED CONTROL VALVE BODY, KMD 250/300 SWITCHING VALVE
13	2	05194301	POPPET KMD SWITCHING VALVE
14	2	05194401	POPPET RING
15	1	05225701	PILOT LINE, P1 - P1
16	1	05227601	PILOT LINE, P2 - P2
19	2	84450850	SPRING I-65
20	2	84800530	STEEL BALL, CHROME, 15/32
21	6	84684300	08 F5OX-S STRAIGHT THREAD CONNECTOR MJIC X M O-RING
24	4	84683800	04 F5OX-S STRAIGHT THREAD CONNECTOR MJIC X M O-RING
25	2	84686600	06 P5ON-S HEX HEAD PLUG M O-RING HEX CAP
26	2	84687500	08 HP5ON-S HOLLOW HEX PLUG M O-RING
27	1	84687900	16 HP5ON-S HOLLOW HEX PLUG M O-RING HEX SOCKET
-	-	05368001	Switching Valve Seal Kit KMD 250/300 JIC & ORFS (Includes 28-42, 53 & 85108798)
28	2	84352200	SEAL ROD 5/8" CHECK VALVE EXTERNAL
29	4	84386600	904 O-RING BUNA 90
30	2	84386800	906 O-RING BUNA 90
31	8	84387000	908 O-RING BUNA 90
32	1	84387800	916 O-RING BUNA 90
33	2	84376000	110 O-RING BUNA 90
34	2	84388890	110 BACK-UP BUNA 90
35	8	84376200	111 O-RING BUNA 90
36	2	84378000	124 O-RING BUNA-N 90 DURO
37	2	84381600	214 O-RING Buna 90
38	2	84391400	8-214 BACK-UP BUNA 90
41	2	84426800	WIPER CHECK VALVE EXTERNAL 5/8" SNAP IN (Nov 2014 - Present)
42	2	84427200	WIPER CANNED 5/8" ROD 4700625 (Pre Nov 2014)
43	3	87004410	BOLT SOCKET HEAD 6MMX50MM
44	8	87008537	BOLT SOCKET HEAD 10MMX55MM
45	1	05200702	BOLT SHOULDER 12MX40M MOD KMD MODIFIED 87012460 (Pre-July 2006)
46	1	87012460	BOLT SHOULDER, 12X40mm (Post June 2006)
47	3	87075510	WASHER LOCK HIGH COLLAR 6mm
48	8	87076510	Hi-Collar Lock Washer - M10
50	1	85105200	CARTRIDGE VALVE, MRV4-10 MANUAL
51		85108800	VALVE CART. SV10-40M-0-N-00 HF
52		03673603	PLUG C-10-4 CAVITY 1 TO 4 AND 2 TO 3
-	-	85108798	Seal Kit for Cartridge Valves (#50-#52)
53	1	05574701	KMD POPPET SEAL INSTALLATION TOOL

Switching Valve Actuator Assembly

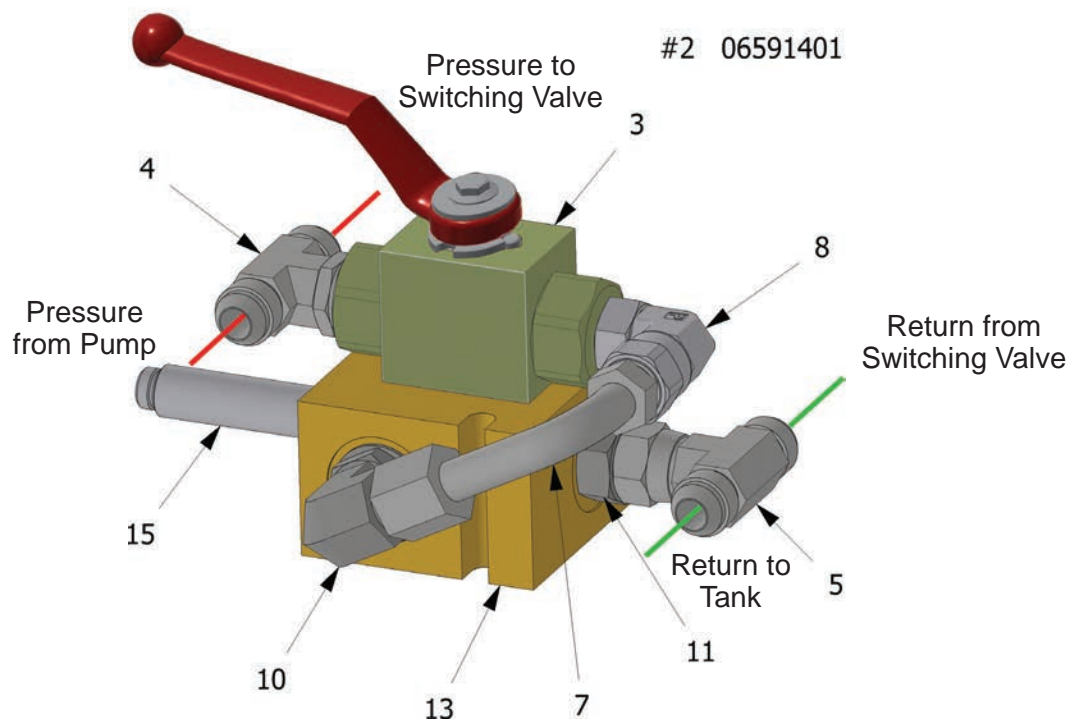


Switching Valve Actuator Assembly

ID#	Qty	Part # 3.65" CC	Part # 97mm CC	Description
1	(1)	05390301	05390302	Switching Valve Actuator Rod Assembly (Includes items 2-11)
2	(1)	08838001		Switching Valve Actuator Assembly (Includes Items 3-8)
3	1	87151005		ROD THREADED 10MM-1.5X1525 (29")
4	1	86553500		WASHER FENDER 3/8" X 1-1/2"
5	1	87076500		10mm Lock Washer
6	5	87101500		10mm Hex Nut
7	2	83217512		Grommet 1"OD X .406 ID X 1/2 NEO 60
8	4	86554001		3/8" x 1 x 0.083" Flat Washer
9	2	05198601	-	Tube Actuator Rod for 3.65" CC
		-	05171101	Tube Actuator Rod for 97mm CC
10	4	87075750		M8 Lock Washer
11	4	87005770		M8 x 1.25 x 20 Hex Bolt

Ball Valve (On/Off) Assembly JIC - Manual (Optional)**Ball Valve (On/Off) Assembly JIC - Manual**

ID#	Qty	Part #	Description
-	(1)	05392001	Ball Valve Assembly O-Ring Boss 1/2" w/Handle & Tees (Includes items 1-2)
1	1	84802480	BALL VALVE 1/2" V500HP-8 KMD 175 AE2S#8-11DB
2	2	84692020	08 S5OX-S Straight Thread Tee MJIC X MJIC X ADJ O-Ring (6803-08-08-08)

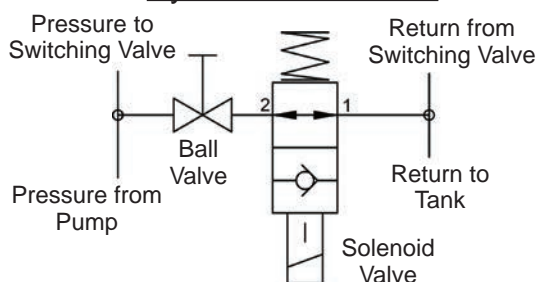
Ball Valve (On/Off) Assembly JIC - Electric (Optional)

Use hydraulic oil or Vaseline to lubricate seals.
Do NOT use grease!
Do NOT use Teflon tape!

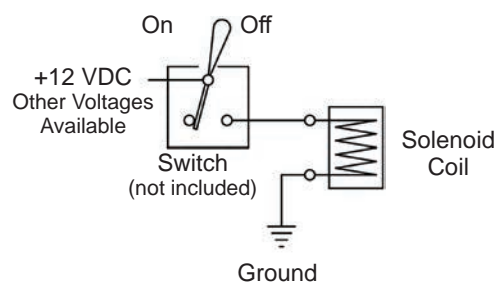
Ball Valve (On/Off) Assembly JIC - Electric

ID#	Qty	> 10 gpm Part #	Description
2	(1)	06591401	Ball Valve Assembly KMD Elec (> 10 GPM) (Includes items below)
3	1	84802480	BALL VALVE 1/2" V500HP-8 KMD 175 AE2S#8-11DB
4	1	84692020	08 S5OX-S Straight Thread Tee MJIC X MJIC X ADJ O-Ring (6803-08-08-08)
5	1	84690730	08 S6X-S Swivel Branch Tee MJIC X MJIC X FJIC (6600-08-08-08)
7	1	84683400	08 41T3 Long Swept Elbow MJIC X FJIC 90° (6701-L-08-08)
8	1	84692985	08 AOEX6-S Swivel Elbow (6809-08-08-NOW)
10	1	84691146	08-10 C5OX-S Straight Thread Elbow MJIC X ADJ O-Ring (6801-08-10)
11	1	84684400	08-10 F5OX-S Straight Thread Connector MJIC X M O-Ring (6400-08-10)
13	1	85101215	MANIFOLD 7022240 HYDRA FORCE
15	1	85109030	VALVE CART. SV12-21-0-N-00 HYDRAFORCE

Hydraulic Schematic



Wiring Diagram



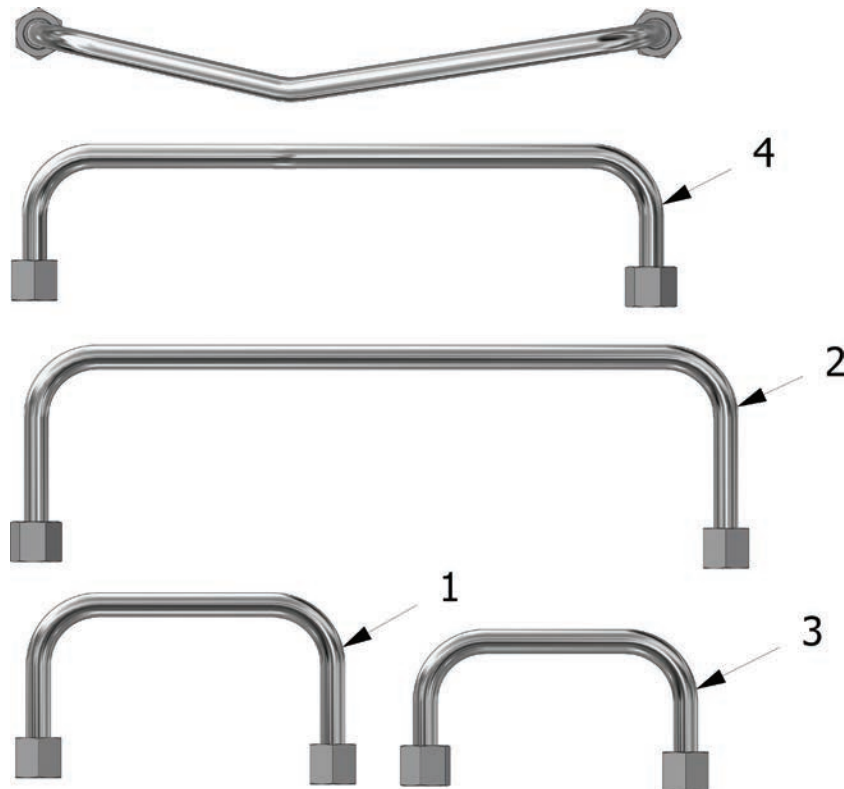
INSTALLATION

1. Remove the existing ball valve. It is mounted on the front of the drive frame, on the drivers side, between the pressure and return lines.
2. Install the electrical on/off control assembly.
3. Connect the pressure and return lines as shown.
4. Supply electrical power to the solenoid.
5. Install the switch in the electrical supply coil.
6. Run the wiring in water-tight flex conduit.

OPERATION

1. Shift the ball valve handle to the open position.
 2. Set the electrical switch to the Off position.
 3. Engage the PTO to start the hydraulic pump.
 4. Turn electrical switch to the On position to start the walking floor. (Solenoid coil must be energized for the walking floor to move.)
- To start or stop the floor using the manual ball valve on the drive.
- Set the electrical switch to the Off position.
 - Close the ball valve to start the walking floor.
 - Open the ball valve to stop the walking floor.

Inside Tubes - Left Hand Drive - ORFS

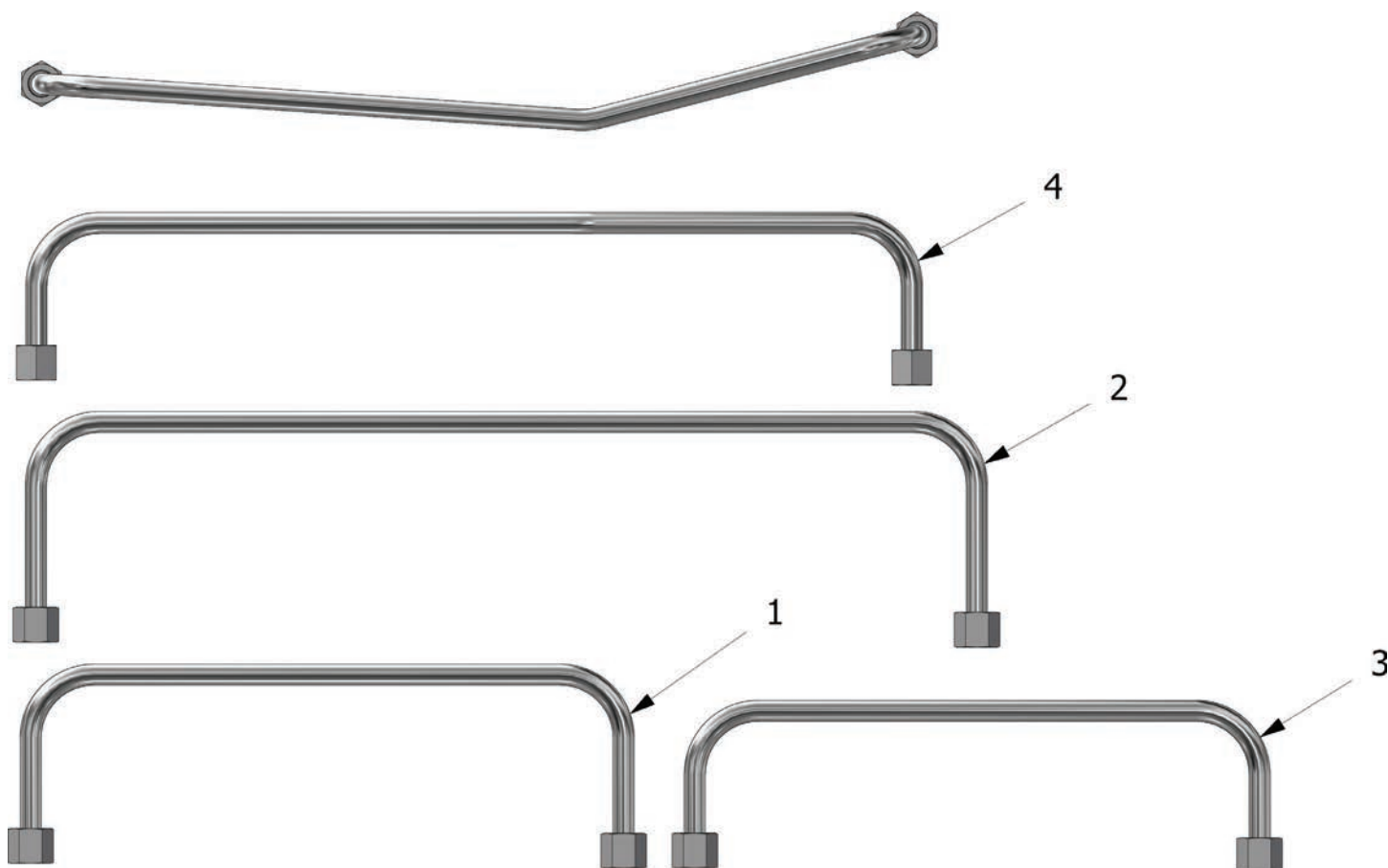


10433101

Inside Tubes - Left Hand Drive - ORFS

ID#	Qty	Part #	Description
-	(1)	10433101	Left Hand Drive Inside Tube Package - ORFS (Includes Items 1-4)
1	1	10411801	1/2" Tube, Left Hand Drive, Inside A-A
2	1	10411901	1/2" Tube, Left Hand Drive, Inside B-B
3	1	10412001	1/2" Tube, Left Hand Drive, Inside L1-L1
4	1	10412101	1/2" Tube, Left Hand Drive, Inside L2-L2

Outside Tubes - Left Hand Drive - ORFS

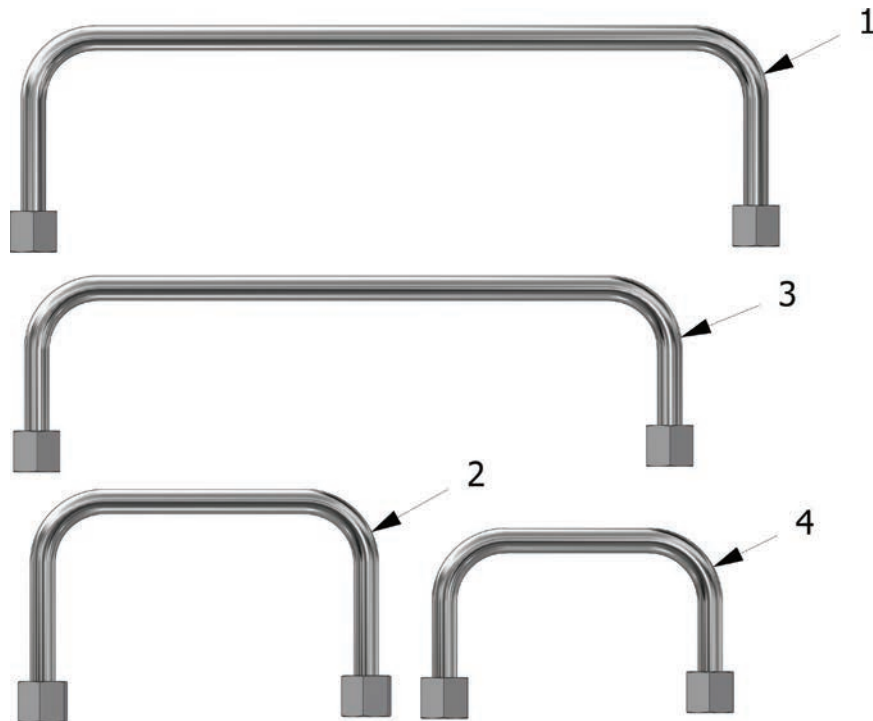


10394801

Outside Tubes - Left Hand Drive - ORFS

ID#	Qty	Part #	Description
-	(1)	10394801	Left Hand Drive Outside Tube Package - ORFS (Includes Items 1-4)
1	1	10391501	1/2" Tube, Left Hand Drive, Outside A-A
2	1	10391601	1/2" Tube, Left Hand Drive, Outside B-B
3	1	10391701	1/2" Tube, Left Hand Drive, Outside L1-L1
4	1	10391801	1/2" Tube, Left Hand Drive, Outside L2-L2

Inside Tubes - Right Hand Drive - ORFS

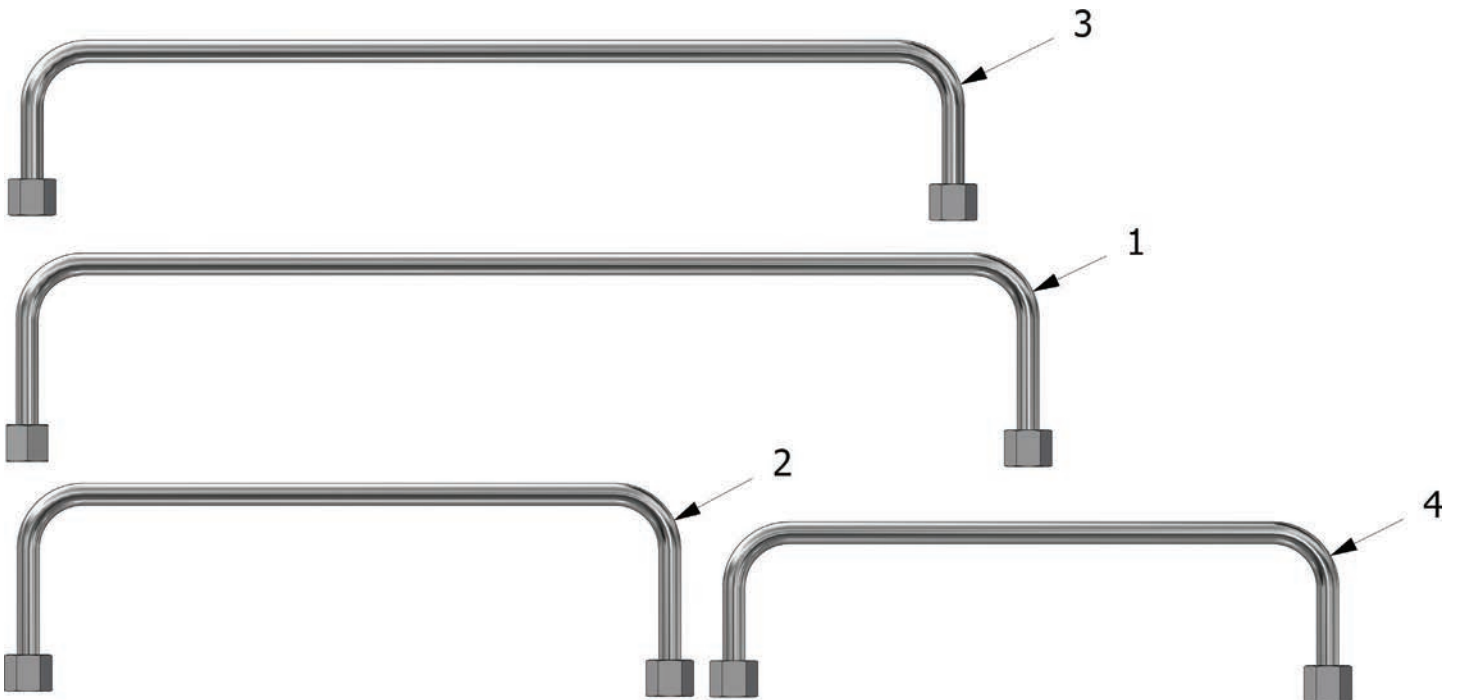


10433201

Inside Tubes - Right Hand Drive - ORFS

ID#	Qty	Part #	Description
-	(1)	10433201	Right Hand Drive Inside Tube Package - ORFS (Includes Items 1-4)
1	1	10411401	1/2" Tube, Right Hand Drive, Inside A-A
2	1	10411501	1/2" Tube, Right Hand Drive, Inside B-B
3	1	10411601	1/2" Tube, Right Hand Drive, Inside L1-L1
4	1	10411701	1/2" Tube, Right Hand Drive, Inside L2-L2

Outside Tubes - Right Hand Drive - ORFS

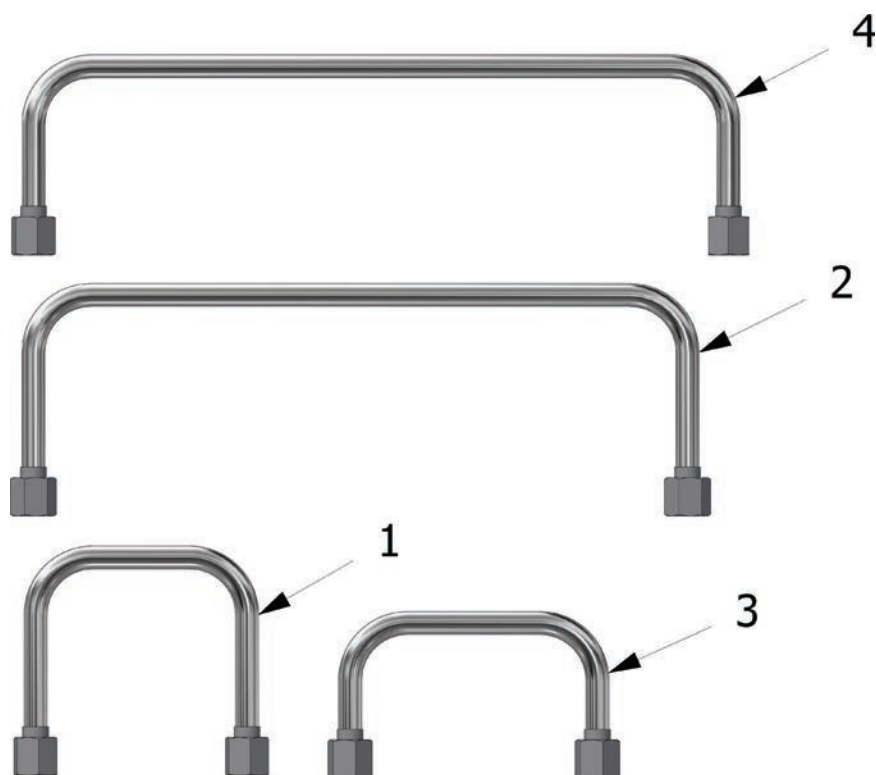


10394901

Outside Tubes - Right Hand Drive - ORFS

ID#	Qty	Part #	Description
-	(1)	10394901	Right Hand Drive Outside Tube Package - ORFS (Includes Items 1-4)
1	1	10391101	1/2" Tube, Right Hand Drive, Outside A-A
2	1	10391201	1/2" Tube, Right Hand Drive, Outside B-B
3	1	10391301	1/2" Tube, Right Hand Drive, Outside L1-L1
4	1	10391401	1/2" Tube, Right Hand Drive, Outside L2-L2

Inside Tubes - Left Hand Drive - JIC

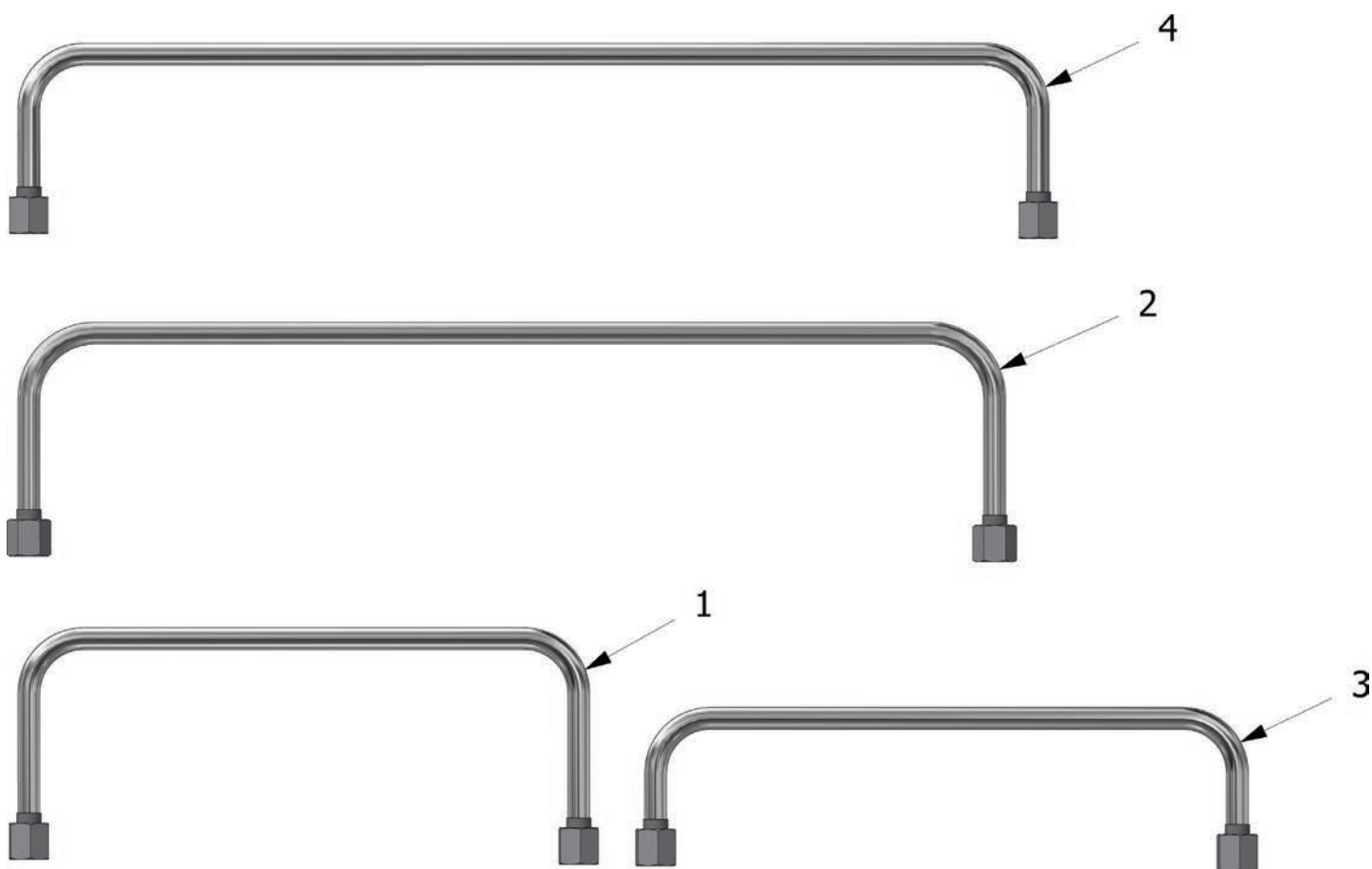


52328

Inside Tubes - Left Hand Drive - JIC

ID#	Qty	Part #	Description
-	(1)	05232801	Left Hand Drive Inside Tube Package - JIC (Includes Items 1-4)
1	1	05222801	1/2" Tube, Left Hand Drive, Inside A-A
2	1	05222901	1/2" Tube, Left Hand Drive, Inside B-B
3	1	05223001	1/2" Tube, Left Hand Drive, Inside L1-L1
4	1	05223101	1/2" Tube, Left Hand Drive, Inside L2-L2-A

Outside Tubes - Left Hand Drive - JIC

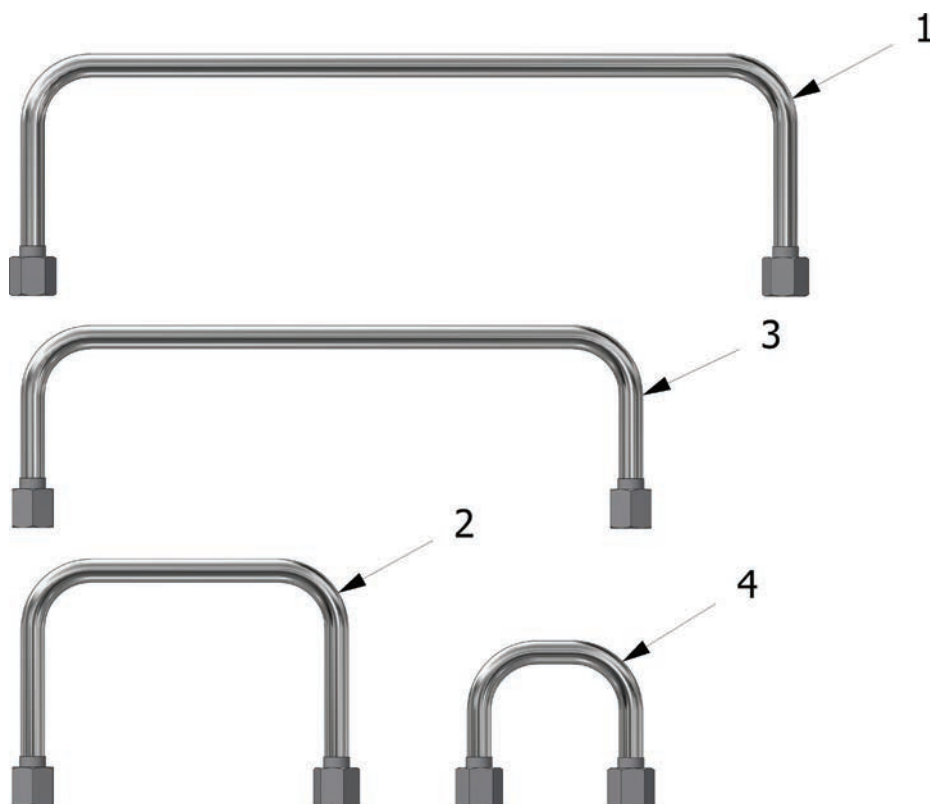


52327

Outside Tubes - Left Hand Drive - JIC

ID#	Qty	Part #	Description
-	(1)	05232701	Left Hand Drive Outside Tube Package - JIC (Includes Items 1-4)
1	1	05223201	1/2" Tube, Left Hand Drive, Outside A-A
2	1	05223301	1/2" Tube, Left Hand Drive, Outside B-B
3	1	05223401	1/2" Tube, Left Hand Drive, Outside L1-L1
4	1	05223501	1/2" Tube, Left Hand Drive, Outside L2-L2-A

Inside Tubes - Right Hand Drive - JIC

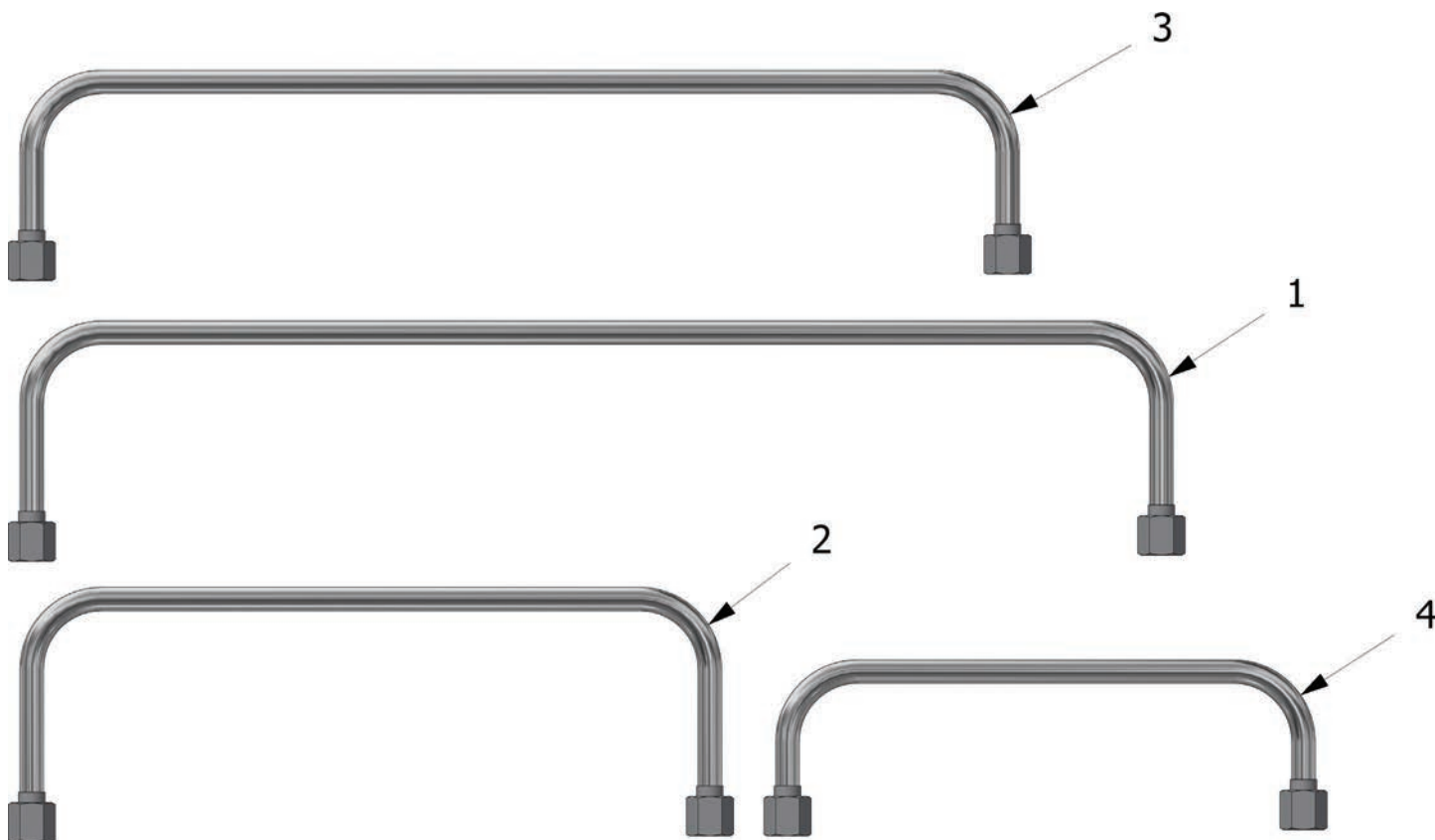


52330

Inside Tubes - Right Hand Drive - JIC

ID#	Qty	Part #	Description
-	(1)	05233001	Right Hand Drive Inside Tube Package - JIC (Includes Items 1-4)
1	1	05223601	1/2" Tube, Right Hand Drive, Inside A-A
2	1	05223701	1/2" Tube, Right Hand Drive, Inside B-B
3	1	05223801	1/2" Tube, Right Hand Drive, Inside L1-L1
4	1	05223901	1/2" Tube, Right Hand Drive, Inside L2-L2-A

Outside Tubes - Right Hand Drive - JIC

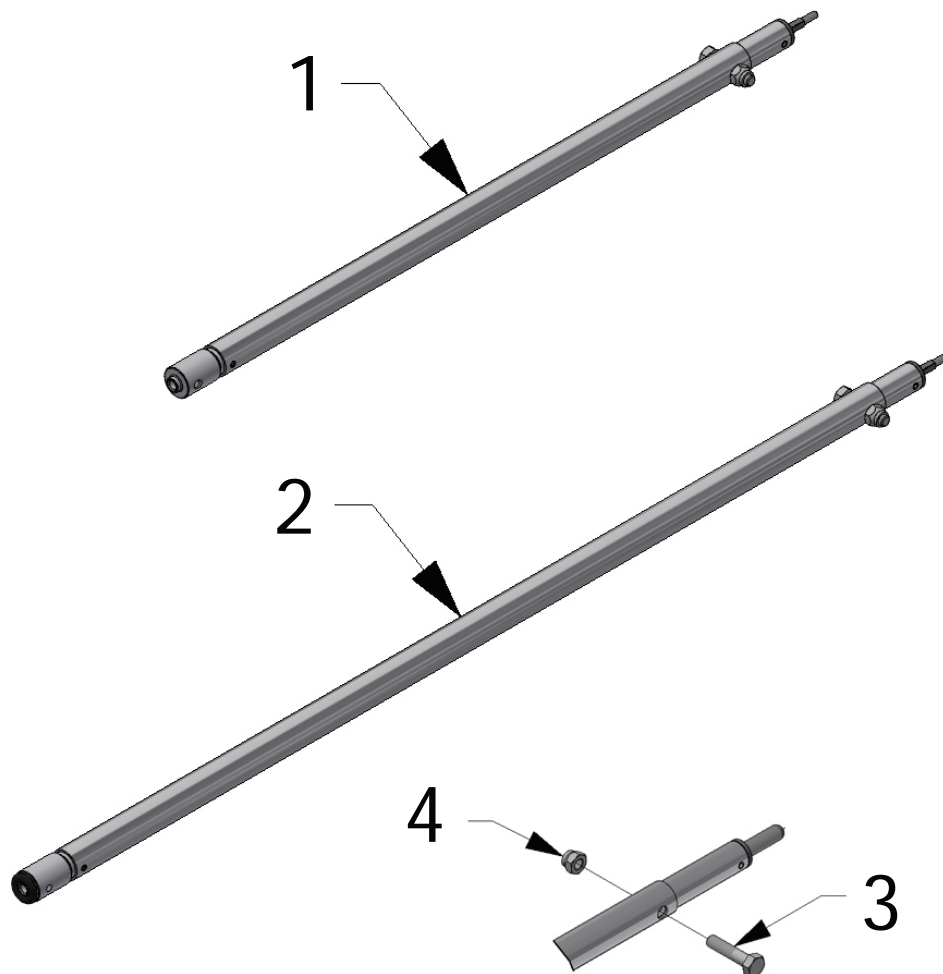


52329

Outside Tubes - Right Hand Drive - JIC

ID#	Qty	Part #	Description
-	(1)	05232901	Right Hand Drive Outside Tube Package - JIC (Includes Items 1-4)
1	1	05224001	1/2" Tube, Right Hand Drive, Outside A-A
2	1	05224101	1/2" Tube, Right Hand Drive, Outside B-B
3	1	05224201	1/2" Tube, Right Hand Drive, Outside L1-L1
4	1	05224301	1/2" Tube, Right Hand Drive, Outside L2-L2-A

Handle Assemblies



Handle Assemblies

ID#	Qty	Part #	Description
1	(1)	11263001	Telescoping 23-39" Rotary Control Valve Handle Assembly Metric (Includes items 3-4)
2		11263101	Telescoping 33-59" Rotary Control Valve Handle Assembly Metric (Includes items 3-4)
3	1	87005950	BOLT HEX 8.8 8-1.25MM X 35MM ZN
4	2	87101000	NUT HEX NYLOCK 8MM-1.25

(Final Page)