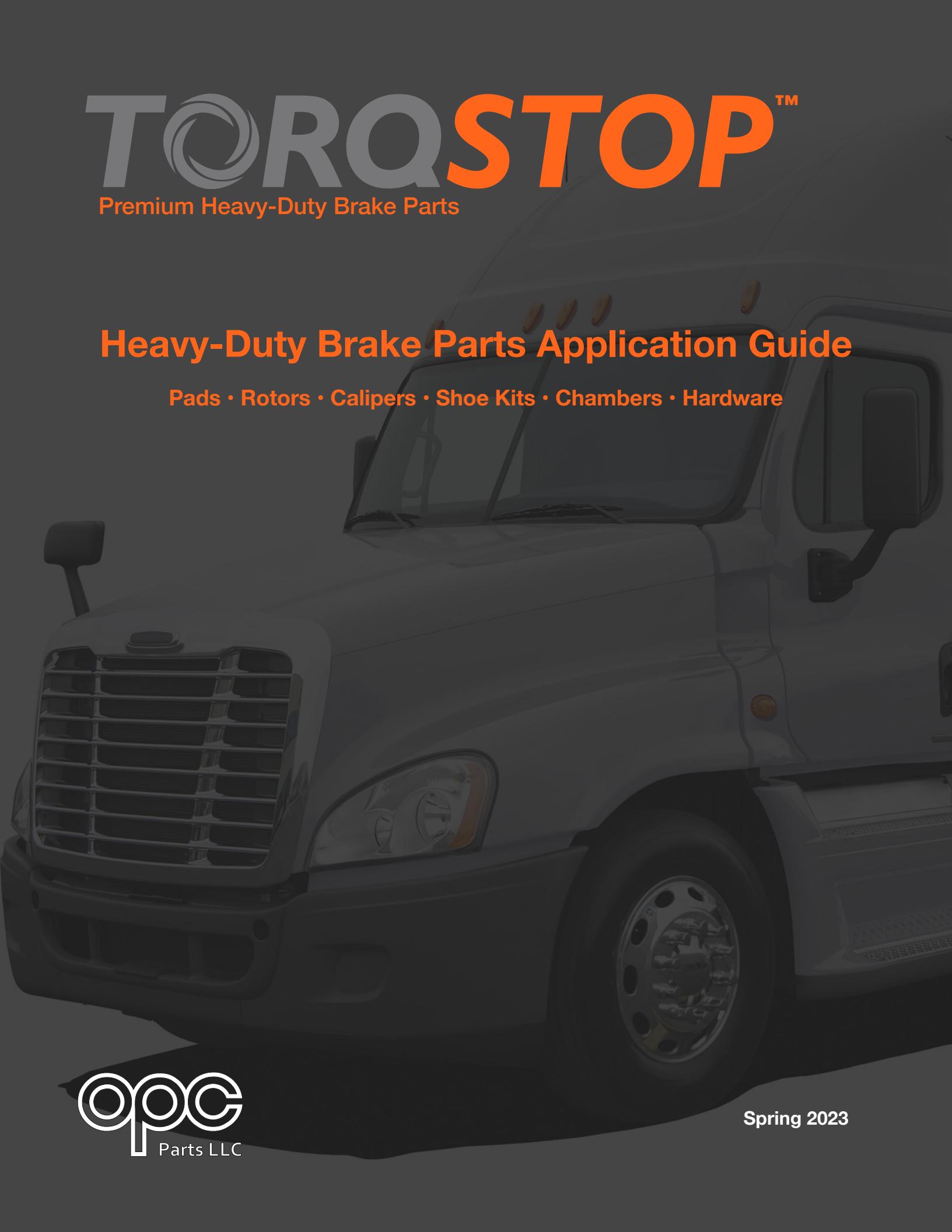




Premium Heavy-Duty Brake Parts

Heavy-Duty Brake Parts Application Guide

Pads • Rotors • Calipers • Shoe Kits • Chambers • Hardware



Spring 2023

OPC Parts, LLC Warranty Policy

Limited Warranty and Limitation of Liability.

LIMITED PRODUCT WARRANTY

OPC Parts, LLC (OPC Hereafter) warrants to the original purchaser of this product ("Purchaser") that this product will be free from defects in materials and workmanship for a period of 1 year from the date of purchase with unlimited miles of use of the product. If a defect in workmanship or materials is found in a product that has been PROPERLY INSTALLED, USED and MAINTAINED in the type of vehicle prescribed, and such product has been returned to a seller authorized to sell OPC products within such warranty period, the product will be exchanged by OPC free of charge.

This warranty is void and OPC is not responsible for any costs of repair or replacement of any products or any damages caused by a product which has been subjected to misuse, abuse, improper application, improper installation, accident or normal wear, or for any product which has been repaired or altered by persons not expressly authorized or certified in writing by OPC to do so. This warranty does not extend or apply to any product the identifying symbol of which has been removed, defaced, or changed. Any components manufactured by any supplier other than OPC which are sold herewith are covered only by the warranty made by the manufacturer of such components. In no event shall such a warranty be more extensive in any manner than the limited OPC product warranty above. OPC will not be liable for any errors, defects or omissions in the design of any product sold hereunder, irrespective of whether such errors, defects, or omissions in design result from acts or omissions of OPC seller or purchaser or of some other third party.

This warranty does not cover, and OPC will not pay for, or provide, any labor or materials which may be necessary to remove a product or install a replacement product. This warranty is limited to the exchange of the product only, when returned with the original purchase receipt in accordance with OPC's terms and conditions of sale. No person is authorized by OPC to modify or add to this warranty.

DISCLAIMER OF WARRANTY / LIMITATION OF LIABILITY

The warranty set forth above is in lieu of any other warranty, express or implied, including but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

OPC will not be liable for any loss, damage, cost or expense, including without limitation any incidental or consequential damages of any kind, including those arising from personal injury, property damage or lost profits, whether based upon breach of warranty or contract, negligence or strict product or other tort liability, arising directly or indirectly in connection with the design, manufacture, sale, use or repair of the products (either separately or in combination with any other product or material) or from any other cause, other than for the cost of replacement of the product as provided in the limited product warranty above. In no event will OPC be liable to purchaser for more than the purchase price of the product sold hereunder.

To the extent that any sales person has made any oral statements to the purchaser about the product, such statements are not warranties, should not be relied on by the purchaser, and are not part of the contract of sale. The limited product warranty above is the only warranty provided to purchaser.

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Produced in the United States of America

About Us Founded in 2022, OPC Parts is a new name on the street, but we're far from new to the aftermarket brake parts industry. Our management team has over 80 years combined experience in the aftermarket, with extensive expertise in the manufacturing and distribution of premium brake components. We are an actual manufacturer, so we have superior control over quality control and manufacturing processes for all the products we sell.

Our Products

Our Heavy-Duty product offering provides comprehensive coverage of brake components for class 6-8 air-braked vehicles, including air disc brake pads, rotors, new calipers, chambers, new S-Cam brake shoes and hardware kits.

Since not all commercial vehicles use air brakes, we also offer a full line of light and medium-duty brake components (pads, rotors, new calipers, hydraulic parts for class 1-7 hydraulically-braked vehicles, including the fast-growing “last-mile-delivery” applications.

Our Vision

“To be a leading aftermarket supplier, widely recognized for providing high-quality brake components for commercial vehicles with world-class customer service at competitive prices; delivering maximum value to our customers.”

Our Mission

“To exceed our customer’s expectations in quality, delivery, and cost, through continuous improvement and customer interaction. We will offer best-in-class cataloging, website, and product data in order to ensure our customers get the right part, on time, at the right price.”

Our Commitment

We know that a company’s greatest asset is its customers, because without customers there is no company. We view every customer as if they were our only customer. We believe strongly in integrity and transparency, and are focused on building long-term relationships, not short-term profits.



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PRODUCT CATEGORY	LOGIC	EXAMPLES
23K Air Disc Pads:	Use GAWR + FMSI, variant after decimal	23D1369
29K Air Disc Pads:	Use GAWR + FMSI, variant after decimal	29D1311, 29D1777.1
ADB Rotors	Type Code / Manufacturer Code / Durabrade Number	RHM56641, RFB76694
Calliper Assemblies (Bracket and Pins Fully Assembled)	Type Code / Manufacturer Code / assigned part number (See Below)	CRB003L, CAM002R
20K Brake Shoe Stop Box	Use GAWR + FMSI, variant after decimal	20K4707Q
23K Shoe Stop Box	Use GAWR + FMSI, variant after decimal	23K4515Q
ADB Chambers	Use TS prefix plus industry reference, no punctuation	TST16, TST2024
S-Cam Chambers	Use SC prefix plus industry reference, no punctuation	SC16, SC2024, SC3030LS
Accessories	Use prefix K (for "KIT") / Manufacturer Code / assigned number	KB001, KW002

ROTOR, CALIPER & ACCESSORY	MANUFACTURER CODES
Bendix / Knorr	B
Meritor	M
Wabco	W
Haldex	X
SAF - Holland	S
Hendrickson	H
ROTOR TYPE CODE	ROTOR P/N PREFIX
U-Shaped	RU
Hat Style	RH
Flat	RF
CALIPER TYPE CODE	CALIPER P/N PREFIX
Radial / Vertical Mount Assemblies	CR
Axial Mount Assemblies	CA
BENDIX CALIPER SUFFIX	CALIPER P/N SUFFIX
"A" Type (Passenger, or Right Side)	R
"B" Type (Driver, or Left Side)	L

Air Brake Pads with Hardware

Features and Benefits

Backing Plates:

- Welded Mesh Backing Plate provides superior friction attachment to prevent shearing under high-torque applications
- High-Strength cast-iron backing plate construction is 1.5mm thinner, yet is more rigid than traditional stamped steel backing plates. This allows for more even pad wear and 7% more usable friction for longer pad life.
- Backing plates are protected with premium AkzoNobel anti-corrosion powder coating, and withstand 3+ cycles of the GM9540P Accelerated Corrosion Testing Cycle.

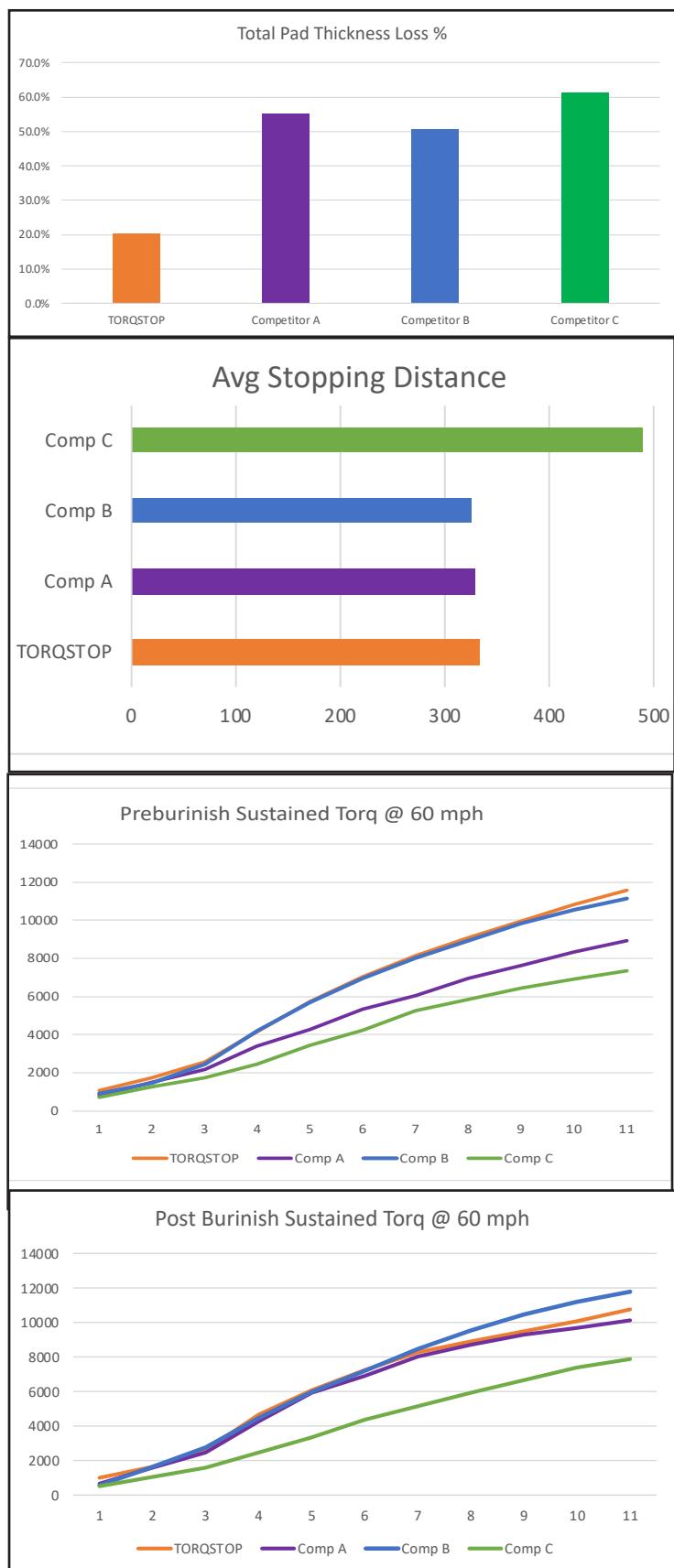


Features and Benefits

TorqStop™ Premium Air Disc Brake Pads provide performance and wear characteristics that equal or exceed that of top OEM and premium aftermarket brands.

In side-by-side dyno testing*, TorqStop™ 23K1369 pads achieved 150 – 200% better wear characteristics than competitive pads, without increasing stopping distance.**

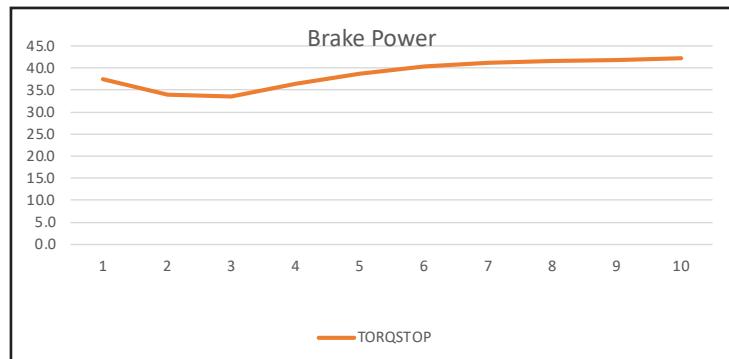
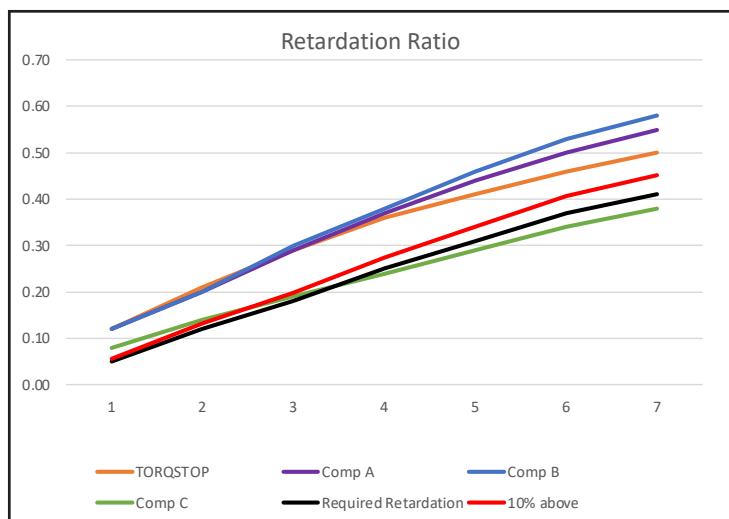
Not only do TorqStop™ pads last significantly longer, they offer exceptional performance. Our Pads provide optimal sustained torque at 60 MPH for reliable stopping power with negligible fade from right out of the box.



Features and Benefits

TorqStop™ brake pad's retardation ratio aligns most closely with FMVSS121 specifications versus its competitors. FROM THE DRIVER'S SEAT, this means that TorqStop™ pads deliver more consistent, linear braking output in relation to increases in pedal pressure. This provides enhanced driver control, pedal feel, and feedback. Some competitive pads tend to increase retardation more quickly with increases in pedal pressure, which creates an over-sensitive pedal feel which can lead to over-braking, unwanted ABS events, or loss of control. Also, worth noting is one of the competitive pads in our comparison study failed to meet the FMVSS 121 requirement for retardation.

As shown in this illustration, TorqStop™ Brake Pads provide reliable stopping power even after multiple stops in close succession. Pedal pressure varies minimally (less than 9 lbf/sq in) during a 10 brake stop test. This indicates very low fade and consistent pedal input stop after stop.



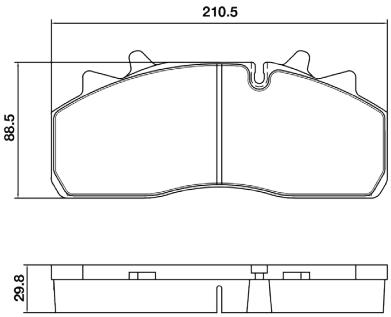
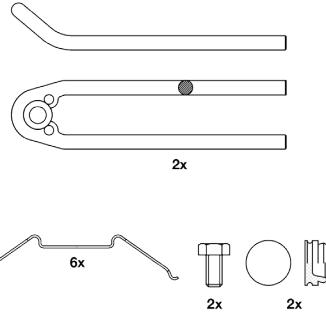
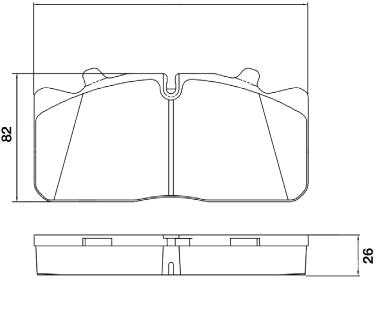
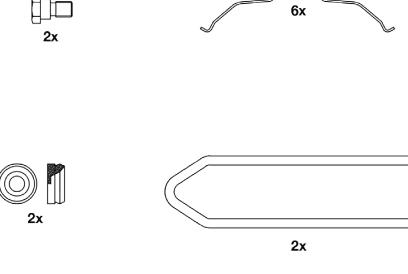
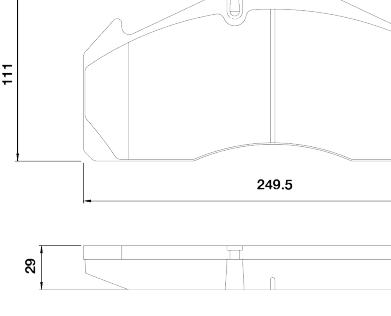
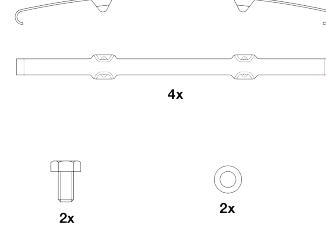
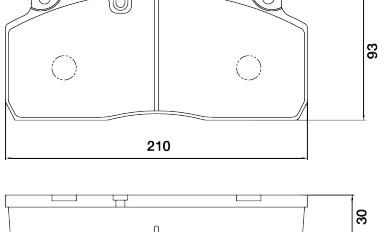
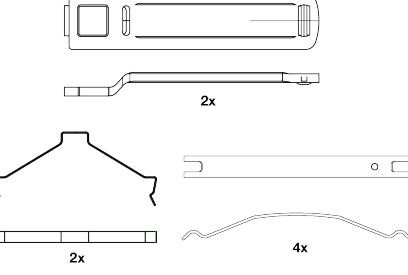
Identification

FMSI NO.	TORQSTOP™ PART NO.	GAWR	ILLUSTRATION (Dimensions in millimeters)
D1203-8323	23D1203	23k	
	29D1203	29k	
D1310-8425	23D1310	23k	
	29D1310	29k	
D1311-8426	23D1311	29k	
	29D1311	29k	
D1312-8427	23D1312	23k	
	29D1312	29k	

Identification

FMSI NO.	TORQSTOP™ PART NO.	GAWR	ILLUSTRATION (Dimensions in millimeters)
D1323-8435	23D1323	23k	
	29D1323	29k	
D1369-8479	23D1369	23k	
	29D1369	29k	
D1370-8470	23D1370	23k	
	29D1370	29k	
D1407-8515	23D1407	23k	
	29D1407	29k	

Identification

FMSI NO.	TORQSTOP™ PART NO.	GAWR	ILLUSTRATION (Dimensions in millimeters)
D1438-8556	23D1438	23k	
	29D1438	29k	
D1518-8727	23D1518	23k	
	29D1518	29k	
D1560-8771	23D1560	23k	
	29D1560	29k	
D1583-8795	23D1583	23k	
	29D1583	29k	

Identification

FMSI NO.	TORQSTOP™ PART NO.	GAWR	ILLUSTRATION (Dimensions in millimeters)
D1708-8931	23D1708	23k	
	29D1708	29k	
D1777	23D1777.2	23k	
	29D1777.2	29k	
D1777-9007	23D1777.1	23k	
	29D1777.1	29k	
D2061-9294	23D2061	23k	
	29D2061	29k	

Identification

FMSI NO.	TORQSTOP™ PART NO.	GAWR	ILLUSTRATION (Dimensions in millimeters)
D2252-9490	23D2252	23k	
	29D2252	29k	

Applications

TORQSTOP™ PART NO.	GAWR	MAKE	CALIPER MODEL	FMSI NO.	WVA NO.
23D1203	23k	Knorr Bremse	SB7, SN7	D1203-8323	29087
29D1203	29k				
23D1310	23k	Meritor	Elsa 2	D1310-8425	29131
29D1310	29k				
23D1311	23k	Meritor	EX225 H2	D1311-8426	29187
29D1311	29k				
23D1312	23k	Meritor	D-Lisa	D1312-8427	29090
29D1312	29k				
23D1323	23k	Meritor	EX225, H3 Transit	D1323-8435	29188
29D1323	29k				
23D1369	23k	Bendix / Knorr	ADB22x, ADB22XLT, SK-7	D13698479	29158
29D1369	29k				
23D1370	23k	Meritor	EX225 L Series	D1370-8470	29189
29D1370	29k				
23D1407	23k	Meritor	D-Elsa 1	D1407-8515	29030
29D1407	29k				
23D1438	23k	Wabco	Pan 19-1	D1438-8556	29159
29D1438	29k				
23D1518	23k	Wabco	Pan 17	D1518-8727	29088
29D1518	29k				
23D1560	23k	Meritor	Volvo 9700	D1560-8771	29125
29D1560	29k				
23D1583	23k	Haldex	DB22 LT	D1583-8795	29175/ 29195
29D1583	29k				
23D1708	23k	Meritor	ELSA 225-3	D1708-8931	29174, 29219, 29204, 29218
29D1708	29k				
23D1777.2	23k	Wabco	MAXXUS 22 / MAXX 22T	D1777-	29279, 29162
29D1777.2	29k				
23D1777.1	23k	Wabco	Pan 22-1	D1777-9007	29162
29D1777.1	29k				
23D2061	23k	Wabco	MAXXUS	D2061-9294	29191
29D2061	29k				
23D2252	23k	SAF	P89 ST7	D2252-9490	29318, 29319
29D2252	29k				

Air Brake Rotors

Features and Benefits

The TorqStop™ line of air disc brake rotors delivers quality, value, and long service life. TorqStop™ offers OEM-quality medium and heavy-duty rotors for commercial truck and trailer, transit, defense, emergency and off-highway applications.

- Our comprehensive lineup of "Flat", "U", and "Hat" rotors covers most major air disc brake systems from Bendix®, Knorr-Bremse®, Meritor®, WABCO®, Hendrickson®, and Haldex®.
- Developed and manufactured under IATF 16949:2016 standards
- Cast from premium raw materials for clean, consistent, high-grade iron
- Molded and machined to deliver uniformity, precision, and superior surface finish
- OE cooling fin designs ensure proper heat dissipation and minimize harmonic vibration
- Mounting bolts, hardware, and ABS rings included where applicable
- Tested to meet stringent durability standards OEM-quality high-grade G3000 metallurgy
- Parallelism tolerance: (Microns): 0.1mm
- Runout tolerance: (Microns): 0.15mm
- DTV tolerance (Microns): 0.013mm
- Surface finish specs: (Microns): Straddle-cut, 1µm
- Balance tolerance: 2300g/cm
- Zinc-Aluminum coating, exceeds 72-hour salt spray tests

Rotor Identification



U-Shaped



Flat



Hat

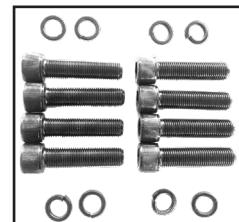
ADB22X Aftermarket Kit:



ADB22X OE-Style Kit



Std. U or Hat Shaped Bolt Kit



ABS Rings Included as required

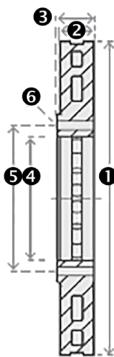


Applications

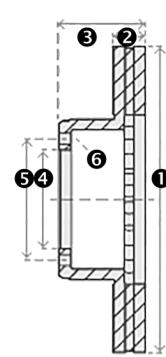
TORQSTOP™ PART NO.	BRAKE SYSTEM	VEHICLE TYPE	APPLICATION	BOLTS / HARDWARE INCLUDED	ROTOR TYPE
RHM56641	Meritor® EX225	Transit / Coach	MCI, Oshkosh, Pierce, Orion, NABI	No	Hat
RUM56642	Meritor® EX225	Transit / Coach	MCI, Oshkosh, Pierce, Orion, NABI	No	U-Shaped
RUW71601	WABCO PAN™ 19	Trailer		No	U-Shaped
RUW75180	WABCO PAN™ 17	Trailer		No	U-Shaped
RUB76603	Knorr-Bremse SB/SN7	Transit / Coach	Prevost	No	U-Shaped
RUB76604	Knorr-Bremse SB/SN7	Transit / Coach	Prevost	No	U-Shaped
RUM76606	Meritor® D-LISA	Transit / Coach	NABI, Gillig	No	U-Shaped
RUB76612	Knorr-Bremse SB/SN7	Transit / Coach	NOVA, BCI	No	U-Shaped
RUW76613	WABCO PAN™ 22	Trailer	Ridewell	Yes	U-Shaped
RUB76617	Bendix® / Knorr-Bremse ADB22X™ and ADB225™	Truck / Trailer	Hendrickson, Kenworth, Freightliner, International, Volvo, Peterbilt, MCI, Mack	Yes	U-Shaped
RUB76618	Bendix® / Knorr-Bremse ADB22X™ and ADB225™	Truck / Trailer	Freightliner, Sterling	Yes	U-Shaped
RHB76641	Knorr-Bremse SB/SN7	Transit / Coach	Prevost	No	Hat
RHB76642	Knorr-Bremse SN7	Transit / Coach	Alexander Dennis	No	Hat
RFB76692	Bendix® / Knorr-Bremse ADB22X	Truck / Trailer	Kenworth, Peterbilt	Yes	Flat
RFB76694	Bendix® / Knorr-Bremse ADB22X	Truck / Trailer	Kenworth, Peterbilt	Yes	Flat
RUH76810	Haldex DB22, DB22LT	Truck	Volvo, International, Mack	No	U-Shaped
RUW76619	WABCO PAN™ 22	Trailer	U-SHAPED ROTOR_NO HARDW_ [WABCO PAN22] TRAILER_Cross: HENDRICKSON S-34172_DURA 76619		U-Shaped
RUM76620	Meritor® EX225	Truck			U-Shaped
RHM76621	Meritor® ELSA 2	Transit / Coach	Vanhool Front and Tag		Hat
RFM76624	Meritor® EX225L	Truck	Same rotor as RFM76624 but with rotor mounted bolt on ABS ring		Flat
RFS76626	SAF-HOLLAND / Knorr ST7	Trailer	P89 Integral and P89 Plus axles. ST-7		Flat
RFM76628	Meritor® EX225L Steer Axle	Truck	Same rotor as RFM76628 but with hub mounted press on ABS ring		Flat
RFM76690	Meritor® ELSA 225-3	Transit / Coach	Volvo 9700, Mack		Flat
RFW76801	WABCO PAN™ 22-1	Truck / Trailer			Flat
RUW76901	Wabco MAXX 22, MAXX 22T	Trailer			U-Shaped

Specifications

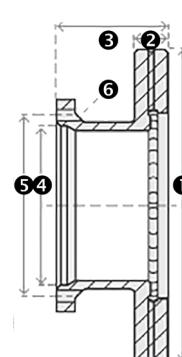
Flat Style



Hat Style



U Style



TORQSTOP™ PART NO.	ROTOR TYPE	1 OVERALL DIA. (IN)	2 DISC THICKNESS (IN)	3 OVERALL DEPTH (IN)	4 PILOT DIA.(IN)	5 BOLT CIRCLE DIA.(IN)	6 BOLT HOLE DIA.	BOLT HOLE NO.	ABS TONE RING
RHM56641	Hat	17.1	1.77	5.19	5.31	6.61	3/4"	12	No
RUM56642	U-Shaped	17.1	1.77	5.64	8.5	10.5	5/8"-18	10	No
RUW71601	U-Shaped	14.84	1.77	5.91	8.66	9.82	M16-2	10	Cast-In
RUW75180	U-Shaped	12.8	1.34	5.85	6.81	7.72	M14-2	8	Cast-In
RUB76603	U-Shaped	17.1	1.77	5.35	7.64	8.66	M16-1.5	10	No
RUB76604	U-Shaped	17.1	1.77	7.08	7.64	9.84	5/8"-18	10	Cast-In
RUM76606	U-Shaped	17.1	1.77	5.65	7.64	9.84	5/8"-18	10	Bolt-On
RUB76612	U-Shaped	16.93	1.77	5.16	7.99	9.25	M16-1.5	10	No
RUW76613	U-Shaped	16.93	1.77	5.91	8.66	9.82	M16-2	10	Cast-In
RUB76617	U-Shaped	16.93	1.77	5.91	8.66	9.84	5/8"-11	10	No
RUB76618	U-Shaped	16.93	1.77	5.45	8.66	9.84	5/8"-11	10	No
RHB76641	Hat	16.98	1.77	4.54	5.31	6.5	0.59"	14	No
RHB76642	Hat	16.93	1.77	4.12	5.31	6.5	0.58"	14	No
RFB76692	Flat	17	1.77	1.77	9.05	N/A	N/A	N/A	No
RFB76694	Flat	17	1.77	1.77	9.05	N/A	N/A	N/A	No
RUH76810	U-Shaped	16.93	1.77	5.9	8.66	9.82	0.63"-11	10	Cast-In
RUW76619	U-Shaped	16.93	1.77	5.91	8.65	9.82	M16-2	10	Cast-In
RUM76620	U-Shaped	16.93	1.77	6.28	8.13	11.25	M16-1.5	10	No
RHM76621	Hat	17.1	1.77	5.12	5.15	6.61	3/4"	12	No
RFM76624	Flat	17.09	1.77	2.09	6.56	7.86	0.66"	10	Bolt-On
RFS76626	Flat	16.93	1.77	2.26	7.01	8.07	0.59"-15	10	Bolt-On
RFM76628	Flat	17.09	1.77	2.09	6.56	7.86	0.66"	10	Bolt-On
RFM76690	Flat	17.09	1.77	1.77	N/A	Splined	N/A	N/A	No
RFW76801	Flat	16.93	1.77	2.09	6.56	7.86	5/8"-18	10	Bolt-On
RUW76901	U-Shaped	16.34	1.69	5.91	8.66	9.82	M16-2	10	Cast-In

Air Brake Calipers

Features and Benefits

- **100% brand new castings & internal components. NO CORE LIABILITY TO TIE UP YOUR CASH!**
- All calipers sold as complete assemblies with carriers
- Manufactured in an IATF16949-2016 certified factory
- Vertically integrated manufacturing capabilities for complete control of all processes from forging, cold extrusion, heat treatment, CNC machining, automatic assembly and final testing ensured the highest-grade casting metallurgy for optimal longevity and performance.
- Exceeds FMVSS121 performance standards
- Extensively tested for compliance with dimensional and performance specifications by US-based quality control engineers
- Corrosion-resistant guide pins
- Proprietary silicone seal designs that withstand both high and low temperature extremes
- High-temperature anti-seizing grease for long-lasting smooth operation .
- 100% Production line testing for precise functionality of all critical force and torque specifications
- Upgraded adjuster mechanisms to prevent under and over adjustment that could lead to overheating and failure.



Applications

TORQSTOP™ PART NO.	CALIPER MODEL	REFERENCE	APPLICATION	PAD	L/R	ADJ DESIGN	RETAINER
Bendix							
CAB001L	ADB22X	K081142, K109961X, K097850SC, K147430X	Freightliner Kenworth Mack Navistar Peterbilt Volvo	D1369	(A) Right	Two Tappets	Flat Bar with Clevis
CAB001R	ADB22X	K081143, K109962X, K097851SC, K147429X	Freightliner Kenworth Mack Navistar Peterbilt Volvo	D1369	(B) Left	Two Tappets	Flat Bar with Clevis
CAB002L	ADB22X	K802984, K113887X	All Trailers 2007 - 2018	D1369	(A) Right	Two Tappets	Flat Bar with Clevis
CAB002R	ADB22X	K802985, K113888X	All Trailers 2007 - 2018	D1369	(B) Left	Two Tappets	Flat Bar with Clevis
CAB003L	ADB22X-LT	K802984, K113887X K149714SC, K165794X	All Trailers 2019 - Current	D1369*	(A) Right	Two Tappets	Flat Bar with Clevis
CAB003R	ADB22X-LT	K802985 K113888X, K149715SC, K165795X	All Trailers 2019 - Current	D1369*	(B) Left	Two Tappets	Flat Bar with Clevis
CRB001L	ADB22X	K081256, K109957X, K097846SC, K147136X	Freightliner Western Star	D1369	(A) Right	Two Tappets	Flat Bar with Clevis
CRB001R	ADB22X	K081257, K109958X, K097847SC, K147135X	Freightliner Western Star	D1369	(B) Left	Two Tappets	Flat Bar with Clevis
Knorr							
CAB004L	SK7	5400101200 / 03080006001Z / K012634	SAF Holland 2009-2017	D1369	Left	Two Tappets	Flat Bar with Clevis
CAB004R	SK7	5400101100 / 03080005901Z / K012633 / K132662X50	SAF Holland 2009-2017	D1369	Right	Two Tappets	Flat Bar with Clevis
CAB005L	SN-7	K003781, SN7185RC	Transit, Coach, MCI, Prevost, Fire, Refuse	D1203	Left	Two Tappets	Flat Bar with Clevis
CAB005R	SN-7	K003782, SN7195RC	Transit, Coach, MCI, Prevost, Fire, Refuse	D1203	Right	Two Tappets	Flat Bar with Clevis

Applications

TORQSTOP™ PART NO.	CALIPER MODEL	REFERENCE	APPLICATION	PAD	L/R	ADJ DESIGN	RETAINER
Meritor							
CAM001L	EX225L2	EX225L202R	Hendrickson Axles	D1370	Left	Two Tappets	Flat Plate with Bolt
CAM001R	EX225L2	EX225L201R	Hendrickson Axles	D1370	Right	Two Tappets	Flat Plate with Bolt
CAM002L	EX225L2	EX225L258	Trailer	D1370	Left	Two Tappets	Flat Plate with Bolt
CAM002R	EX225L2	EX225L257	Trailer	D1370	Right	Two Tappets	Flat Plate with Bolt
CAM003L	EX225H2	EX225H202	KW, Pete, Mack, Volvo, Navistar, Transit	D1311	Left	Two Tappets	Flat Plate with Bolt
CAM003R	EX225H2	EX225H201	KW, Pete, Mack, Volvo, Navistar, Transit	D1311	Right	Two Tappets	Flat Plate with Bolt
CAM004L	EX225H3	EX225H302	Transit, Coach, MCI, Prevost, Fire, Refuse	D1323	Left	Two Tappets	Flat Plate with Bolt
CAM004R	EX225H3	EX225H301	Transit, Coach, MCI, Prevost, Fire, Refuse	D1323	Right	Two Tappets	Flat Plate with Bolt
CAM005L	EX225H2	EX225H217 / EX225H227	Mack, Volvo	D1311	Left	Two Tappets	Flat Plate with Bolt
CAM005R	EX225H2	EX225H218 / EX225H228	Mack, Volvo	D1311	Right	Two Tappets	Flat Plate with Bolt
CAM006L	ELSA 225-3		Mack	D1708	Left	Two Tappets	Flat Plate with Bolt
CAM006R	ELSA 225-3		Mack	D1708	Right	Two Tappets	Flat Plate with Bolt
CAM007L	EX225L2	EX225L265	Mack, Volvo Steer, Trailer	D1370	Left	Two Tappets	Flat Plate with Bolt
CAM007R	EX225L2	EX225L266	Mack, Volvo Steer, Trailer	D1370	Right	Two Tappets	Flat Plate with Bolt
CRM001L	EX225L2	EX225L276	Truck Trailer	D1370	Left	Two Tappets	Flat Plate with Bolt
CRM001R	EX225L2	EX225L275	Truck Trailer	D1370	Right	Two Tappets	Flat Plate with Bolt
CRM002L	EX225L2	EX225L243 / EX225L247 / EX225L269	Mack, Volvo drive	D1370	Left	Two Tappets	Flat Plate with Bolt

Applications

TORQSTOP™ PART NO.	CALIPER MODEL	REFERENCE	APPLICATION	PAD	L/R	ADJ DESIGN	RETAINER
Meritor							
CRM002R	EX225L2	EX225L244 / EX225L248 / EX225L270	Mack, Volvo drive	D1370	Right	Two Tappets	Flat Plate with Bolt
CRM003L	EX225H2	EX225H215 / EX225H225	Mack, Volvo	D1311	Left	Two Tappets	Flat Plate with Bolt
CRM003R	EX225H2	EX225H216 / EX225H226	Mack, Volvo	D1311	Right	Two Tappets	Flat Plate with Bolt
CRM004L	ELSA 225-3		Mack	D1708	Left	Two Tappets	Flat Plate with Bolt
CRM004R	ELSA 225-3		Mack	D1708	Right	Two Tappets	Flat Plate with Bolt
CRM005L	EX225L2	EX225L216	Freightliner, Western Star, Mack, Volvo	D1370	Left	Two Tappets	Flat Plate with Bolt
CRM005R	EX225L2	EX225L215	Freightliner, Western Star, Mack, Volvo	D1370	Right	Two Tappets	Flat Plate with Bolt
Wabco							
CAW001L	PAN22	6402250800	Hendrickson Axles	D1777.1	Left	Pusher Plate	Rolled Bar
CAW001R	PAN22	6402250810	Hendrickson Axles	D1777.1	Right	Pusher Plate	Rolled Bar
CAW002L	PAN22	640225015 L /40225015	SAF Holland Axles	D1777.1	Left	Pusher Plate	Rolled Bar
CAW002R	PAN22	640225016 R /40225016	SAF Holland Axles	D1777.1	Right	Pusher Plate	Rolled Bar
CAW003L	Maxx 22T	6402220070 S-35973-L	Hendrickson Axles	D1777.2	Left	Pusher Plate	Rolled Bar
CAW003R	Maxx 22T	6402220080 S-35973-R	Hendrickson Axles	D1777.2	Right	Pusher Plate	Rolled Bar
CRW001L	Maxxus 22	640322051	Freightliner Western Star	D2061	Left	Pusher Plate	Rolled Bar
CRW001R	Maxxus 22	640322050	Freightliner Western Star	D2061	Right	Pusher Plate	Rolled Bar

Drum Brake Shoes with Hardware

Features and Benefits

- **100% new. No more dealing with messy cores!**
- Convenient stop-box contains 2 shoes and HD hardware
- Manufactured in an IATF16949-2016 certified factory
- Robust E-coating corrosion protection extends life and prevents rust-jacking
- 23K Low-Met/ GF long-life friction (Other 20K and 23K friction options available)
- Compliant with 2025 Copper-Free requirements
- FMVSS 121 Certified
- All shoe tables and webs are made from heavy-gauge high grade carbon steel with tightly controlled tolerances; ensuring consistent shoe-drum contact for maximum performance and wear characteristics.
- Heat-treated roller and anchor journals to prevent distortion, mushrooming and wear, which is commonly found with relined shoes.
- Quality Components – our hardware kits contain heavy-duty springs, stainless steel bushings, heat treated and zinc chromate coated rollers and powder-coated springs, designed to be rust resistant and improve the dependability of your brakes



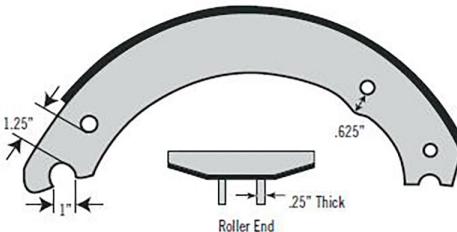
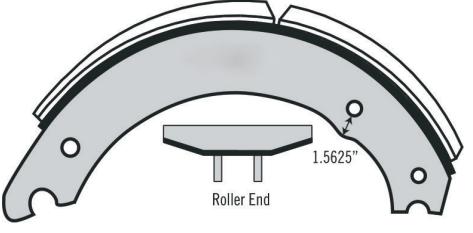
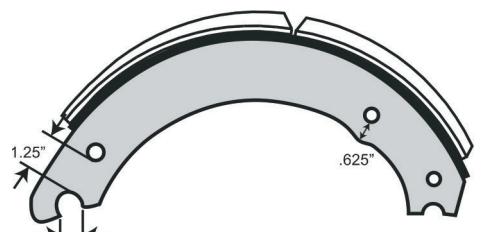
Identification - Brake Shoes and Hardware

FMSI NO.	TORQSTOP™ PART NO.	DRUM DIA.	SHOE WIDTH	IMAGE
1308E	23K1308E	15	4	
1308T	23K1308T	15	4	
1308Q	23K1308Q	15	4	
1443E	23K1443E	15	4	

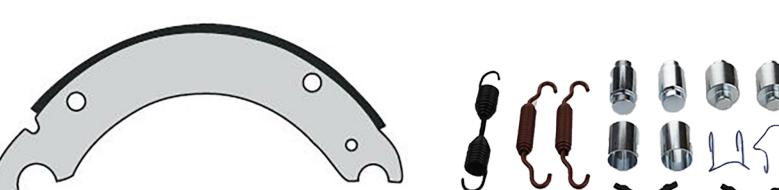
Identification - Brake Shoes and Hardware

FMSI NO.	TORQSTOP™ PART NO.	DRUM DIA.	SHOE WIDTH	IMAGE
4311E	23K4311E	16.5	7	
4514Q	23K4514Q	16.5	6	
4515Q	23K4515Q	16.5	7	
4515X3	23K4515X3	16.5	7	

Identification - Brake Shoes and Hardware

FMSI NO.	TORQSTOP™ PART NO.	DRUM DIA.	SHOE WIDTH	IMAGE
4524Q	23K4524Q	16.5	5	 
4524QM	23K4524QM	16.5	5	 
4551Q	23K4551Q	16.5	8.625	 
4591	23K4591DXQ	12.25	7.5	 

Identification - Brake Shoes and Hardware

FMSI NO.	TORQSTOP™ PART NO.	DRUM DIA.	SHOE WIDTH	IMAGE
4591SF	23K4591SF	12.25	7.5	
4692FC2	23K4692FC2	12.25	7.5	
4692QU	23K4692QU	12.25	7.5	
4702Q	23K4702Q	15	4	

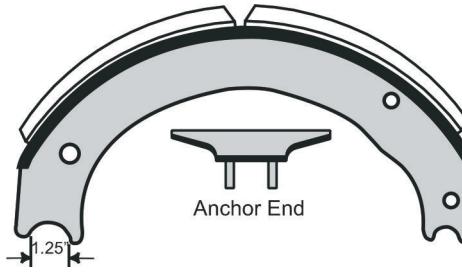
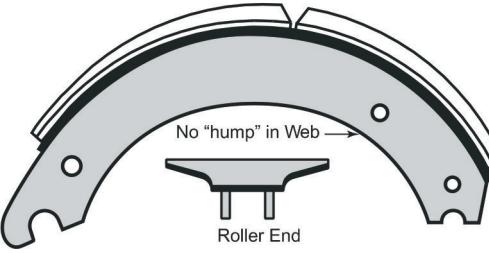
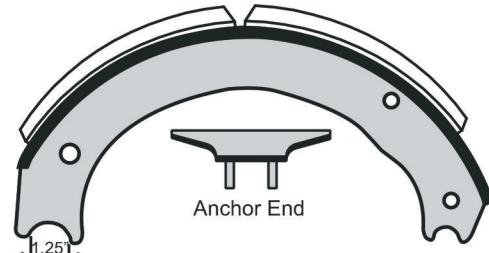
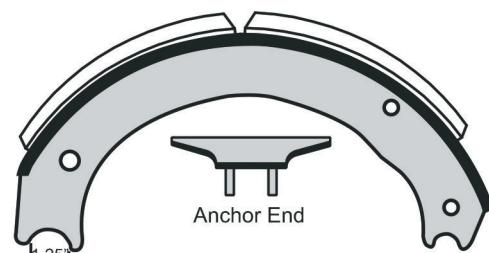
Identification - Brake Shoes and Hardware

FMSI NO.	TORQSTOP™ PART NO.	DRUM DIA.	SHOE WIDTH	IMAGE
4703Q	23K4703Q	15	5	
4707Q	23K4707Q	16.5	7	
4709E	23K4709E	16.5	7	
4709ES2	23K4709ES2	16.5	7	

Identification - Brake Shoes and Hardware

FMSI NO.	TORQSTOP™ PART NO.	DRUM DIA.	SHOE WIDTH	IMAGE
4710Q	23K4710Q	15	8.625	
4711Q	23K4711Q	16.5	8.625	
4715Q	23K4715Q	16.5	6	
4718Q	23K4718Q	16.5	8	

Identification - Brake Shoes and Hardware

FMSI NO.	TORQSTOP™ PART NO.	DRUM DIA.	SHOE WIDTH	IMAGE
4719E2	23K4719E2	16.5	5	 
4720Q	23K4720Q	16.5	5	 
4725ES2	23K4725ES2	16.5	6	 
4726ES2	23K4726ES2	16.5	8.625	 

Applications

TORQSTOP™ PART NO.	FMSI NO.	DESCRIPTION	GAWR (LBS)	DRUM DIA.	SHOE WIDTH	NO.OF WEBS
23K1308E	1308E	Eaton	23k	15	4	1
23K1308T	1308T	Meritor "T"	23k	15	4	1
23K1308Q	1308Q	Meritor "Q" First Design	23k	15	4	1
23K1443E	1443E	Eaton "ES"	23k	15	4	1
23K4311E	4311E	Eaton	23k	16.5	7	2
23K4514Q	4514Q	Meritor "Q"	23k	16.5	6	2
23K4515Q	4515Q	Meritor "Q"	23k	16.5	7	2
23K4515X3	4515X3	Fruehauf XEM 3	23k	16.5	7	2
23K4524Q	4524Q	Meritor "Q"	23k	16.5	5	2
23K4524QM	4524QM	Meritor "Q" with Relocated Spring Hole	23k	16.5	5	2
23K4551Q	4551Q	Meritor "Q"	23k	16.5	8.625	2
23K4591DXQ	4591DX	Dexter PQ Style (Open / closed)	23k	12.25	7.5	2
23K4591SF	4591SF	Dexter (closed / closed)	23k	12.25	7.5	2
23K4692FC2	4692FC2	Dana Spicer "Fast Change" II (Open / Open)	23k	12.25	7.5	2
23K4692QU	4692QU	Dana Spicer FC with Spring Notch (Open / Open)	23k	12.25	7.5	2
23K4702Q	4702Q	Meritor "Q: Plus	23k	15	4	2
23K4703Q	4703Q	Meritor "Q: Plus	23k	15	5	2
23K4707Q	4707Q	Meritor "Q: Plus	23k	16.5	7	2
23K4709E	4709E	Eaton ES 1st Generation	23k	16.5	7	2
23K4709ES2	4709ES2	Eaton ESII 2nd Generation	23k	16.5	7	2
23K4710Q	4710Q	Meritor "Q: Plus	23k	15	8.625	2
23K4711Q	4711Q	Meritor "Q: Plus	23k	16.5	8.625	2
23K4715Q	4715Q	Meritor "Q: Plus	23k	16.5	6	2
23K4718Q	4718Q	Meritor "Q: Plus	23k	16.5	8	2
23K4719E2	4719E2	Eaton ESII 2nd Generation	23k	16.5	5	2
23K4720Q	4720Q	Meritor "Q: Plus	23k	16.5	5	2
23K4725ES2	4725ES2	Eaton ESII 2nd Generation	23k	16.5	6	2
23K4726ES2	4726ES2	Eaton ESII 2nd Generation	23k	16.5	8.625	2

Air Brake Chambers

Features and Benefits

- Manufactured to exceed OE fit, form and function
- Heavy gauge steel housings for structural rigidity and consistent performance
- E-Coated housings for corrosion resistance and longer life
- Reinforced Mounting Studs prevent pull-through and misalignment
- Premium rubbers for reliable performance across a broad temperature range
- High-temperature seals
- Long-life corrosion-resistant coatings
- Meets or exceeds SAE Standards
- Standard, Long-Stroke and Piggyback Versions available
- 2-Year, Unlimited Mile Warranty

Identification

S-Cam Piggyback
Brake Chamber



Identification

ADB Spring Brake
Chamber



S-Cam Spring Brake
Chamber



S-Cam Service
Brake Chamber



ADB Service Disc
Brake Chamber



Applications

TORQSTOP™ PART NO.	BRAKE TYPE	DESCRIPTION	PUSHROD TYPE	PUSHROD THREAD SIZE	PORT SHAPE	STROKE (IN)
TST14	Air Disc	Type 14 Service Chamber	Rounded, no threads	N/A	N/A	2.5
TST16	Air Disc	Type 16 Service Chamber	Rounded, no threads	N/A	N/A	2.5
TST18	Air Disc	Type 18 Service Chamber	Rounded, no threads	N/A	N/A	2.5
TST20	Air Disc	Type 20 Service Chamber	Rounded, no threads	N/A	N/A	2.5
TST24	Air Disc	Type 24 Service Chamber	Rounded, no threads	N/A	N/A	2.5
TST1624	Air Disc	16/24 Double Spring Brake	Rounded, no threads	N/A	N/A	Std.
TST1824	Air Disc	18/24 Double Spring Brake	Rounded, no threads	N/A	N/A	Std.
TST2024	Air Disc	20/24 Double Spring Brake	Rounded, no threads	N/A	N/A	2.5
TST2224	Air Disc	22/24 Double Spring Brake	Rounded, no threads	N/A	N/A	2.5
TST2424	Air Disc	24/24 Double Spring Brake	Rounded, no threads	N/A	N/A	2.5
TST2430	Air Disc	24/30 Double Spring Brake	Rounded, no threads	N/A	N/A	2.5
SC2430PB	S-Cam	24/30 Double Spring Brake Piggyback	N/A	5/8 - 16	Round	2.5
SC2430LSPB	S-Cam	24/30 Double Spring Brake Long Stroke Piggyback	N/A	5/8 - 16	Square	3
SC3030PB	S-Cam	30/30 Double Spring Brake Piggyback	N/A	5/8 - 16	Round	2.5
SC3030LSPB	S-Cam	30/30 Double Spring Brake Long Stroke Piggyback	N/A	5/8 - 16	Square	3
SC9	S-Cam	Type 9 Service Chamber	Fully Threaded	1/2 - 20	N/A	1.75
SC12	S-Cam	Type 12 Service Chamber	Fully Threaded	1/2 - 20	N/A	1.75
SC16	S-Cam	Type 16 Service Chamber	Fully Threaded	1/2 - 20	N/A	2.25
SC20	S-Cam	Type 20 Service Chamber	Fully Threaded	5/8 - 16	N/A	2.5
SC24	S-Cam	Type 24 Service Chamber	Fully Threaded	5/8 - 16	N/A	2.5
SC30	S-Cam	Type 30 Service Chamber	Fully Threaded	5/8 - 16	N/A	2.5

Applications

TORQSTOP™ PART NO.	BRAKE TYPE	DESCRIPTION	PUSHROD TYPE	PUSHROD THREAD SIZE	PORT SHAPE	STROKE (IN)
SC2424	S-Cam	24/24 Double Spring Brake	Fully Threaded	5/8 - 16	Round	2.5
SC2430	S-Cam	24/30 Double Spring Brake	Fully Threaded	5/8 - 16	Round	2.5
SC2430LS	S-Cam	24/30 Double Spring Brake Long Stroke	Fully Threaded	5/8 - 16	Square	3
SC3030	S-Cam	30/30 Double Spring Brake	Fully Threaded	5/8 - 16	Round	2.5
SC3030LS	S-Cam	30/30 Double Spring Brake Long Stroke	Fully Threaded	5/8 - 16	Square	3
SC3030I	S-Cam	30/30 Double Spring Brake Intraxx	Fully Threaded	5/8 - 16	Round	2.5
SC3030ILS	S-Cam	30/30 Double Spring Brake Long Intraxx	Fully Threaded	5/8 - 16	Square	3

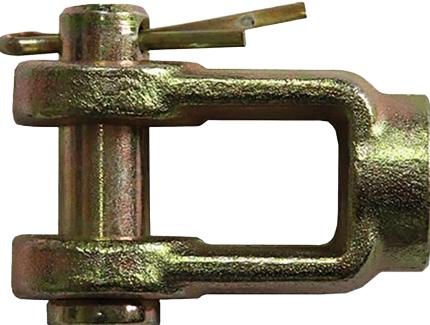
Air Disc Service Parts and Hardware

TORQSTOP™ PART NO.	CALIPER	DESCRIPTION	IMAGE
KB001	ADB22x, LT, SK7, ST7	Guide pin replacement Kit for ADB22x, ADB22xLT, SK7 caliper	
KB002	ADB22x, LT, SK7, ST7	Tappet and Boot Kit for ADB22x, ADB22xLT, SK7 caliper	
KB003	ADB22x, LT, SK7, ST8	Kit of 10 shear adapters for ADB22x, ADB22xLT, SK7 caliper	
KB004	ADB22x, LT, SK7, ST7	10 rubber caps for ADB22x, ADB22xLT, SK7 caliper 802495	

Air Disc Service Parts and Hardware

TORQSTOP™ PART NO.	CALIPER	DESCRIPTION	IMAGE
KM001	EX225 L2, H2, H3	Guide pin and boot kit for EX225L2, H2, H3 caliper	
KW001	WABCO PAN 17	Guide pin and boot kit for PAN 17 caliper	
KW002	WABCO PAN 19-1, 22-1	Guide pin and boot kit for PAN 19-1, PAN 22-1 caliper	
KW003	WABCO Maxx22T, MaxxUS	Guide pin and boot kit for Maxx22T and MaxxUS calipers	

Air Disc Service Parts and Hardware

TORQSTOP™ PART NO.	CALIPER	DESCRIPTION	
KC001	S-CAM	Clevis Assembly 1/2" rod. 1/2"Pin	
KC002	S-CAM	Clevis Assembly 5/8" rod. 1/2"Pin	
KC003	S-CAM	Clevis Assembly 5/8" rod. 5/8"Pin	

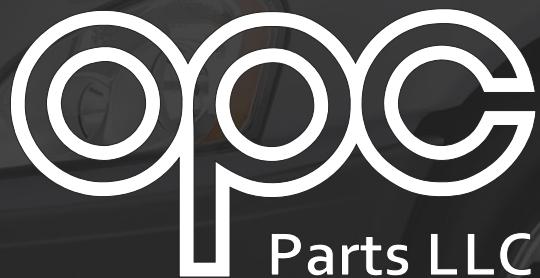
TORQSTOP™ PART NO.	CALIPER	DESCRIPTION	
KC004	S-CAM	Clevis Pin 1/2" X 1-3/4"	
KC005	S-CAM	Clevis Pin 5/8" X 1-3/4"	



NOTES



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