

STEMCO®



WHEEL END CATALOG




STEMCO®
A Higher Standard of Performance.™

Making the Roadways Safer®

an EnPro Industries company

SAFETY

PERFORMANCE

CONFIDENCE



THE COMPONENTS OF **A WINNER.**

Introducing the Trifecta™ pre-adjusted hub assembly

Delivering a faster, more secure installation, the Trifecta pre-adjusted hub assembly comprises six premium components designed to get your trucks on the road quicker and keep them there longer. Because when it comes to your operations, there's no substitute for **safety, performance and confidence.**

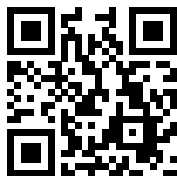


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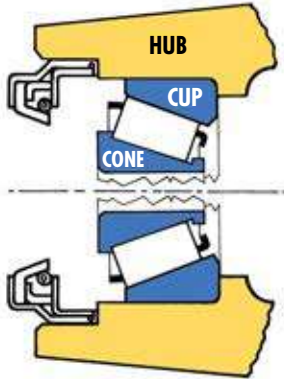
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VMRS CODES

PRODUCT	DESCRIPTION	ATA/VMRS CODE*	STEMCO PART NO. SERIES
Axle Rings	Drive	18-002-014 (STMCO)	310-1000 Series
	Dead	18-001-015 (STMCO)	
Bearing Spacers		18-001-013 (STMCO)	357-5700 Series
Gaskets		18-003-017 (STMCO)	330-3000 Series
Grit Guard® Deflector Rings	Drive	18-002-014 (STMCO)	315-1500 Series
	Dead	18-001-015 (STMCO)	
Hub Caps		18-003-003 (STMCO)	300-, 303-, 340-, 342-, 343-, 348-, 349-, 350-, 352-, 353-, 356-, & 358-0000 Series
Hubodometers		51-002-002 (STMCO)	650-0000 Series
Hubodometer Brackets		51-002-002 (STMCO)	610-0000 Series
Hubodometer Hub Caps		51-002-004 (STMCO)	640-0000 Series
Locating Rings		18-001-013 (STMCO)	356-5600 Series
Misc. Components (including Hub Cap Parts)		None	359-5900 Series
O-Rings		18-003-015 (STMCO)	355-5500 Series
Oil Seals (Standard)	Drive	18-002-005 (STMCO)	320-2000 Series
	Dead	18-001-004 (STMCO)	
Oil Seal Sets:	Drive Axle	18-002-028 (STMCO)	392-9000 Series 309-0900, 391-, 393-0000 Series
	Front Axle	18-001-026 (STMCO)	382-8000 Series 308-0800 & 383-0000 Series
	Trailer, Tag or Pusher Axle	18-004-001 (STMCO)	372-7000 Series 307-0700 & 373-0000 Series
Zip-Torq®	Drive Axle	012-001-005	449-4900 Series
	Trailer, Tag or Pusher Axle	012-002-005	447-4700 Series
Pro-Torq®	Drive Axle	012-001-005	449-4900 Series
	Trailer, Tag or Pusher Axle	012-002-005	447-4700 Series
Pinion Seals		24-002-017 (STMCO)	429-0000 & 460-0000 Series
Shoulder Bushings		18-001-013 (STMCO)	364-6400 Series
Tools	Fleet Hub Tools	None	551-5300 Series
	Heavy Duty Axle Tools	None	552-5200 Series
	Universal Tool Body & Accessories	None	555-0000 Series
	Universal Tool Heads	None	555-5000 Series
Trifecta	Steer Axle	18-001	453-0000 Series
	Drive Axle	18-002	
	Trailer Axle	18-004	

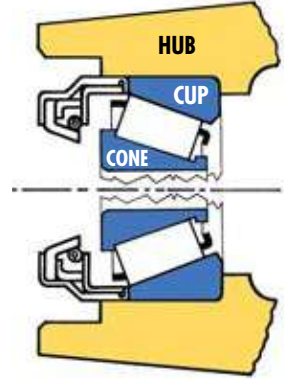
* American Trucking Association/Vehicle Maintenance Reporting Standards

AXLE APPLICATION GRAPHICS

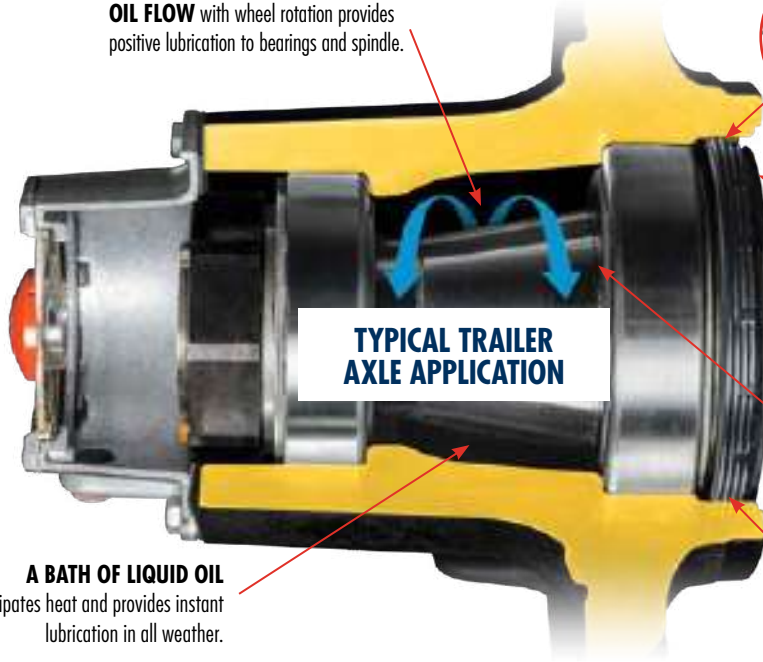


NOTICE

Some STEMCO hub seals are not designed to fit into the seal bore of the hub as the one shown at the left, but are properly sized to fit into the same bore as the bearing cup, as shown on the right. Always refer to the instructions packaged with the seal.



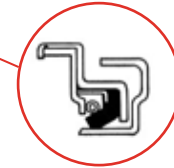
OIL FLOW with wheel rotation provides positive lubrication to bearings and spindle.



A BATH OF LIQUID OIL dissipates heat and provides instant lubrication in all weather.



GUARDIAN® SEAL bonded rubber O.D. provides positive seal in bore — overcomes minor bore imperfections.

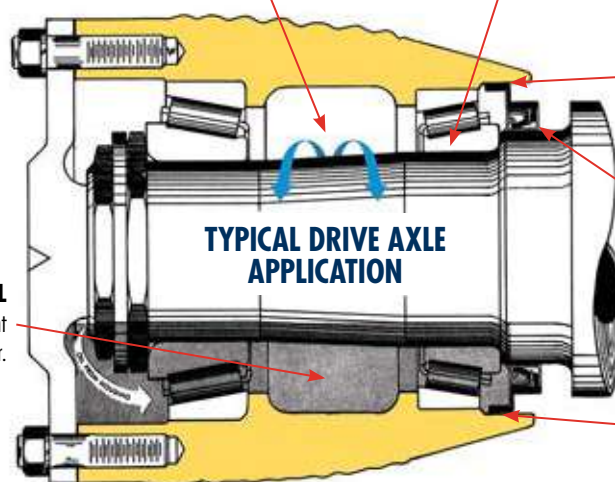


Corresponding Grit Guard® Set with Deflector Ring

PROPER LUBRICATION allows the bearing cone to creep on a film of oil and distribute the wear and load for the FULL life of bearing.

RELIABILITY — STEMCO Hub-Seals are designed specifically for wheel application with any type oil.

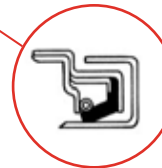
OIL FLOW with wheel rotation provides positive lubrication to bearings and spindle.



A BATH OF LIQUID OIL dissipates heat and provides instant lubrication in all weather.

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Corresponding Grit Guard® Set with Deflector Ring

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APPLICATION CHART

APPLICATION	GUARDIAN® GUARDIAN®HP	GRIT GUARD® STANDARD	VOYAGER®	DISCOVER®
19,000# Trailer Axle Standard Forge, Dana, Meritor, Eaton	307-0713 ⁹	372-7098	373-0113	373-0213
Pro-Par Trailer Axle, Fruehauf, Eaton P-22, Meritor TP, Dana	307-0723 ⁹	372-7099	373-0123	373-0223
22,500# Trailer Axle, Meritor, Standard Forge, Dana, Eaton	307-0743 ⁹	372-7097	373-0143	373-0243
20,000# Trailer Axle, Meritor, Shuler	307-0744	372-7095	373-0144	N/A
12,000#, 14,600# Meritor Front Transit	N/A	382-8001 X	383-0101	N/A
Meritor Center Point	N/A	382-8028	N/A	N/A
GMC F-120 to 1985	N/A	382-8034	N/A	N/A
12,000# Front Axle, Meritor, Eaton, Ford, Freightliner, Kenworth, Western Star, Navistar, Peterbilt, Volvo GM	308-0836 ⁹	382-8036	383-0136	383-0236
12,000# Mack Front Axle	N/A	382-8039 X	383-0139 ¹³	383-0239 ¹⁴
Navistar Front Axle, FA 309, FA 329	308-0853	382-8053 X	383-0153	N/A
9,000# Front Axle, Navistar, FA 109 Cast Wheel '79 and up	308-0855	382-8056 X	383-0156	N/A
12,000# Front Axle, Navistar	308-0856	382-8056 X	383-0156	N/A
7,000#, 9,000# Front Axle, Ford	308-0863	382-8063	N/A	N/A
16,000# Front Axle, Ford, Navistar, Mack, Meritor, White, Kenworth, Western Star, Peterbilt, Volvo GM	308-0864 ⁹	382-8064	383-0164	383-0264
6,000#, 7,500# Front Axle, Navistar	308-0866	382-8066	383-0166	N/A
Volvo FA 7.5 Front Axle	308-0870	N/A	N/A	N/A
GMC F-120 1985 and up	N/A	382-807 X	383-0171	N/A
8,000# GMC Front-Top Kick	N/A	N/A	383-0175	N/A
11,000# GMC Front-Top Kick	N/A	N/A	383-0176	N/A
34,000# Drive Axle, Mack	309-0903 ⁹	392-9094	393-0103	393-0203
44,000# Drive Axle, Mack	309-0904 ⁹	392-9112 392-9130	393-0104 393-0104	393-0204 393-0204
34,000# Drive Axle, Eaton, Ford, Navistar, White	309-0912 ⁴	392-9099	393-0112	393-0212
17,000# Single and 34,000# Tandem, GMC	309-0915 ⁵	Refer to above 392-9099 set	393-0115	N/A
Meritor Drive-Transit	N/A	392-9034 X	393-0134	N/A
15,000# Drive Axle, Ford, Meritor F-Series	309-0935	392-9035	N/A	N/A
Mack Drive Axle 50,000# and 60,000#	309-0948	392-9089	393-0148	N/A
GMC H/T 150 and H/T 175 Ford, Meritor H 170, 172, 175	309-0957	392-9057	N/A	N/A
38,000# Drive Axle, Mack, GMC, Eaton, Meritor	309-0960	392-9132 ⁶	N/A	N/A
34,000# Drive Axle, Meritor	309-0961	392-9095	N/A	N/A
19,000# Drive Axle, Eaton, Navistar, Ford, GMC, White	309-0964	392-9088	N/A	N/A
Van Hool Bus	391-9066 ¹	392-9066	N/A	N/A
38,000#, 40,000# and 42,000# Tandem Drive Axles, Ford, Eaton, GMC, Mack, Navistar, White	309-0965	392-9092 ⁷ 392-9096	N/A	N/A
38,000# Drive Axle, Eaton, Meritor, White	309-0970	392-9087	N/A	N/A
38,000#, 46,000# Tandem Axles, Eaton, Ford, Freightliner, Kenworth, Western Star, Peterbilt, Meritor, Navistar, Volvo GM	309-0973 ⁹	392-9131 ⁸	393-0173	393-0273

Numbers with a red **X** indicate discontinued part numbers.

² Use 555 Series Tool Heads with Universal Tool Body 555-0001. The Axle Tool Heads Install the Standard/Grit Guard® Rings and Guardian®/SS4 Seals.

³ Use 551 Series Tool Heads with new Universal Tool Handle 551-0001. The Hub Tool Installs the Standard Seal, Voyager® and Discover® Seals.

⁴ Use with 5.687" Bore Only.

⁵ Use with 5.500" Bore Only.

⁶ Does not fit Mack Applications.

⁷ Fits Mack Application Only.

⁸ Use with Wabco ABS.

APPLICATION CHART

	GG/STANDARD COMPONENTS SEAL/RING	INNER BEARING	UNIVERSAL AXLE TOOL HEADS 2	UNIVERSAL HUB TOOL HEADS 3	BEARING GUIDE
	2109/1507	663	555-5100	551-5313	570-0023
	2023/1503	HM518445	555-5023	551-5401	570-0025
	2110/1504	HM218248	555-5039	551-5412	570-0026
	2118/1510	665A	555-5069	551-5339 ²⁰	570-0024
	2086/1013	6386 or 6389, 6379	555-5060 or 555-5014	551-5420 ¹⁹	570-0020 ²¹
	2028/1028	756A	555-5067	551-5385	N/A
	2034/1034	HM212047	555-5066	551-5387	570-0019
	2036/1036	39581	555-5062	551-5346	570-0017
		HM212044	555-5061	551-5346	570-0018
		HM212049, -X, X1	555-5098	551-5346	570-0020
		HM212047	555-5066	551-5346	570-0019
	2039/1038	641 or HM212049	NONE REQ'D	551-5413 ¹⁰	570-0020
	2181/1093	641 or HM212049	555-5060	551-5419	570-0020
		H715345	555-5070	551-5419 ¹⁵	570-0021
	2199/1093	641	555-5060	551-5344	570-0020
	2199/1093	H715345	555-5070	551-5344	570-0021
	2133/1036 45284	39581	555-5062	551-5353	570-0017
		555-5064	551-5353	N/A	
	2137/1037	6461A	555-5007	551-5327	570-0022
	2164/1008	JM207049	555-5088	551-5423	570-0036
		JM205149	555-5089	551-5423 ¹⁸	570-0033
	N/A	JF7049A	555-5297	N/A	N/A
	2216/1034	HM212047	555-5066	551-5403	570-0019
	N/A	JM205149	N/A	551-5417	570-0033
	N/A	33212	N/A	551-5418	570-0031
	2129/1511	580 or 582	555-5072	551-5415 ¹¹	570-0023
	2213/1515 2213/1519	663 or HM516449,-C	555-5072	551-5414 ¹²	570-0023
		HM516449A	555-5073	551-5414 ¹²	570-0023
	2102/1501	47685 or 47686	555-5031	551-5416 ¹⁶	570-0023
		47678 or 5760	555-5074	551-5416 ¹⁶	570-0022
	—	47686	555-5031	551-5424	570-0023
	2061/1066	6580 or 6559	555-5023 or 555-5072	551-5421 ¹⁷	570-0025 or 570-0023
	2057/1062	33287	555-5011	551-5353	N/A
	2097/1516	687 or 780	555-5004	551-5400	570-0032
	2104/1018	495AX	555-5074	551-5383	N/A
		33287	555-5011	551-5383	N/A
	2115/1530	598A	555-5071	551-5356	570-0027
		594A	555-5076	551-5356	570-0028
	2117/1509	580, 582 or 663A	555-5072	551-5325	N/A
	2113/1517	594 or 594A	555-5076	551-5412	570-0028
	2115/1107	594A	555-5076	551-5356	570-0028
	2131/1508	598	555-5071	551-5363	570-0027
	2114/1508	595	555-5072	551-5412	570-0023
		598	555-5071	551-5412	570-0027
	2162/1502	683XA or 683	555-5076	551-5333	570-0028
		681A	555-5071	551-5333	570-0027
	2106/1525	594 or 594A	555-5076	551-5320	570-0028
		598 or 598A	555-5071	551-5320	570-0027

⁹ HP Design

¹⁰ Use 551-5395 for 320-2039 seal.

¹¹ Use 551-5393 for 320-2129 seal.

¹² Use 551-5364 for 320-2213 seal.

¹³ 383-8139 includes 310-1132.

¹⁴ 383-8239 includes 310-1132.

¹⁵ Use 551-5349 for 320-2181 seal.

¹⁶ Use 551-5318 for 320-2102 seal.

¹⁷ Use 551-5356 for 320-2061 seal.

¹⁸ Use 551-5366 for 320-2164 seal.

¹⁹ Use 551-5311 for 320-2086 seal.

²⁰ Use 551-5321 for 320-2118 seal.

²¹ Does not fit 6379.

 **Trifecta™**



RAISING THE STANDARD FOR WORLD-CLASS WHEEL ENDS

STEMCO's Trifecta™ Pre-Adjusted Hub Assembly combines premiere STEMCO wheel end technologies with the trusted Webb® hub in a single, pre-adjusted assembly, ensuring a faster and more secure installation. Trifecta eliminates the need to purchase, install and adjust separate wheel end components and fasteners while guaranteeing reliability.

Safety

Provides quick, easy installation with a simple torque-down procedure and no bearing adjustment.

Includes Zip-Torq® axle fastener featuring a unitized design with no additional clips, keepers, snap rings or screws, increasing simplicity for technicians.

Performance

Trifecta includes the Discover® XR, a high-performance seal with patent-pending GlideLock™ technology which essentially eliminates installation issues by reducing installation force by 50% with no prelube required—an industry first.

Discover XR and the Defender ESP™ hub cap combine to set a new standard for contamination exclusion and raise the bar for long-life wheel end systems.

Confidence

Features industry-standard components manufactured by STEMCO & Webb Wheel.

Backed by STEMCO support nationwide, including on-site training and certification, TMC-approved procedures and a 5-year/500,000 mile parts and labor OEM warranty.



SIMPLE INSTALLATION. TOTAL PEACE OF MIND.

Designed for fleets that value component longevity between service intervals and keeping time in the service bay as brief as possible, the Trifecta™ hub assembly represents the peak of durability and simplicity—the toughest, most resilient wheel end components united in an easy-to-install package.

Webb® Wheel Hub

- Industry-standard hubs
- Precision machined for Trifecta™
- Ductile iron & aluminum options available
- Over 70 years of hub expertise

STEMCO Manufactured Bearings

- Exceed ABMA performance and durability standards
- Included in OEM long-life wheel end systems

Defender ESP™ Hub Cap

- Made from high-strength composite material
- 100% corrosion-free
- ESP (Extended Service Plug) prevents contamination from entering, protects lubricant integrity

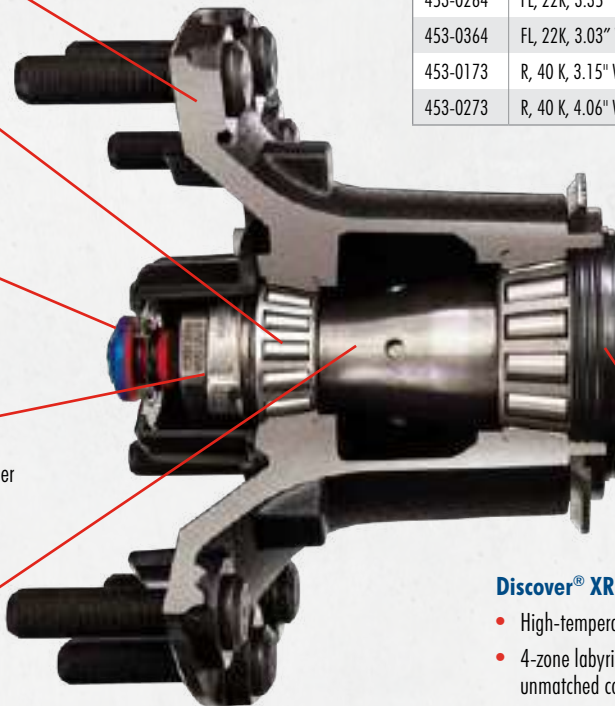
Zip-Torq® Axle Fastener



- Simplified, one-piece advanced axle fastener provides fast and simple installation
- Self-ratcheting feature prevents back-off
- No clips, keepers or set screws to install
- Easy removal

STEMCO Spacer (patent-pending)

- Designed for optimized lubricant flow
- Reduces fretting corrosion between spindle and bearing mating surfaces
- Extends spindle, bearing and seal life

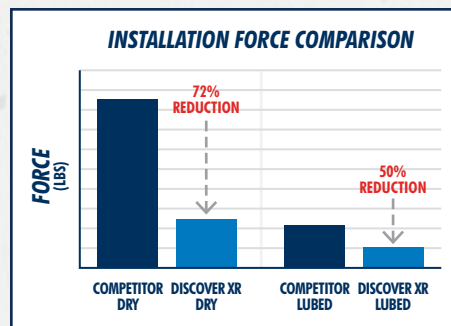
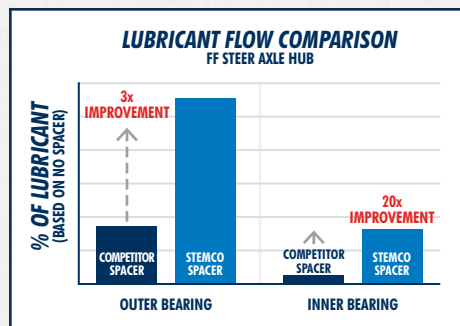


TRIFECTA HUB ASSEMBLY

ASSEMBLY PART NO.	DESCRIPTION
453-0136	FF 5.44" DFlat, 14.6 K, 2.74" Wheel Stud, Iron Hub, w ABS
453-0236	FF 5.44" DFlat, 14.6 K, 3.19" Wheel Stud, Iron Hub, w ABS
453-0137	FF 5.44" Tang, 14.6 K, 2.74" Wheel Stud, Iron Hub, w ABS
453-0237	FF 5.44" Tang, 14.6 K, 3.19" Wheel Stud, Iron Hub, w ABS
453-0164	FL, 22K, 2.58" Wheel Stud, Iron Hub, w ABS
453-0264	FL, 22K, 3.35" Wheel Stud, Iron Hub, w ABS
453-0364	FL, 22K, 3.03" Wheel Stud, Iron Hub, w ABS
453-0173	R, 40 K, 3.15" Wheel Stud, Iron Long Hub, w ABS
453-0273	R, 40 K, 4.06" Wheel Stud, Iron Long Hub, w ABS

Discover® XR Wheel Seal

- High-temperature, long-life seal
- 4-zone labyrinth and slinger provide unmatched contamination prevention
- GlideLock™ patent-pending technology reduces installation force by 50%—no prelube required
- Addresses industry's leading seal failure modes—cocked seals and excessive heat generation





PLATINUM PERFORMANCE SYSTEM™



SYSTEMS APPROACH TO PERFORMANCE

On their own, STEMCO® wheel end components are among the lightest, most durable and highest performing in the industry. Bundled together in a Platinum Performance System™, they work together to create the most reliable and efficient wheel end systems possible. With up to 7-year warranties, Platinum Performance Systems provide unrivaled confidence and peace of mind.

Warranty

From three to seven years, depending on the chosen system. Available for OEM and aftermarket applications.

Reduced Downtime

Exceptional reliability means trucks spend more time on the road and less in the shop.

Lower Operating Costs

Extended service life and warranty coverage reduce life-of-equipment costs.

Lightweight

STEMCO Platinum Performance System Plus 7 Light Weight removes up to 150 pounds of trailer weight, dramatically increasing payload capacity.

Improved Fuel Efficiency

Light Weight and Tire Inflation Platinum Performance Systems help reduce fuel costs.

Increased Revenue



Greater payload capacity, reduced maintenance, and industry-leading warranties all lead to greater profit potential.

PPS SOLUTIONS PROVIDE THE INDUSTRY'S BEST WARRANTY

Platinum Performance System™ solutions provide exceptional performance and reliability, but it's their warranties that provide peace of mind for fleet owners and managers. And the more innovative STEMCO® products that are added to the package, the longer the warranty and the greater the peace of mind.

AFTERMARKET PACKAGES

STEMCO's Aftermarket Platinum Performance System solutions are an integrated system of wheel end products and performance. With the Platinum Performance System™, extend wheel end coverage to a three- or five-year limited warranty with unlimited mileage for tractors and trailers.

		
<ul style="list-style-type: none"> ■ Guardian® HP or Discover® Seal ■ Pro-Torq® or Zip-Torq® Axle Fastener ■ Defender™ Sentinel® or Sentinel® Hub Cap ■ STEMCO Bearings 	<ul style="list-style-type: none"> ■ Guardian® HP or Discover® Seal ■ Zip-Torq® Axle Fastener ■ Defender™ Sentinel® Hub Cap ■ STEMCO Bearings 	
3 Year	5 Year	<small>*Extended warranties are for On Highway applications only.</small>

OEM PACKAGES

The unprecedented performance of these STEMCO Platinum Performance System Plus solutions will lower maintenance costs by reducing down-time and protecting wheel end components. Choose our five-year Plus package, or add additional STEMCO components and extend the limited parts and labor warranty to seven years.

			
<ul style="list-style-type: none"> ■ Guardian® HP or Discover® Seal ■ Pro-Torq® or Zip-Torq® Axle Fastener ■ Sentinel® Hub Cap ■ STEMCO Bearings 	<p style="text-align: center;">TIRE INFLATION</p> <ul style="list-style-type: none"> ■ Discover® Seal ■ Pro-Torq® or Zip-Torq® Axle Fastener ■ Sentinel® Hub Cap ■ STEMCO Bearings 	<ul style="list-style-type: none"> ■ Aeris® Automatic Tire Inflation System ■ Guardian® HP or Discover® Seal ■ Pro-Torq® or Zip-Torq® Axle Fastener ■ Sentinel® Hub Cap ■ STEMCO Bearings 	<p style="text-align: center;">LIGHT WEIGHT</p> <ul style="list-style-type: none"> ■ STEMCO CentriFuse® Drum and Hub Assembly ■ STEMCO Crewson™ Automatic Brake Adjuster ■ Guardian® HP or Discover® Seal ■ Pro-Torq® or Zip-Torq® Axle Fastener ■ Sentinel® Hub Cap ■ STEMCO Bearings
5 Year	5 Year	7 Year	7 Year

*Extended warranties are for On Highway applications only.

ADDITIONAL WARRANTY COVERAGE

If STEMCO new or relined brake shoes are used in conjunction with the Platinum Performance System, lined shoes that have been exposed to oil contamination will be covered or replaced. For STEMCO brakes not covered by the PPS System, the length of the lining warranty against oil contamination will be the warranty period of the STEMCO seal. STEMCO Aeris Automatic Tire Inflation System is also available with a three year aftermarket warranty.

INTERNAL HUB SEAL CROSS REFERENCE

QUICK REFERENCE

GUARDIAN® / GUARDIAN®HP SEAL NO.	INNER BEARING CONE	UNIVERSAL TOOL HEAD	STANDARD/ GRIT GUARD® SET	VOYAGER® DISCOVER®
307-0713 †	663	555-5100	372-7098	373-0113 373-0213
307-0723 †	HM518445	555-5023	372-7099	373-0123 373-0223
307-0743 †	HM218248	555-5039	372-7097	373-0143 373-0243
307-0744	665A	555-5069	372-7095 X	373-0144
308-0836 †	39581	555-5062	382-8036	383-0136 383-0236
	HM212044, 557A	555-5061		
	HM212049, -X	555-5098		
	HM212047	555-5066		
308-0853	641	555-5060	382-8053 X	383-0153
	HM212049	555-5070		
308-0855	641	555-5060	N/A	N/A
308-0856	H715345	555-5070	382-8056 X	383-0156
308-0863	39581	555-5062	382-8063	N/A
	45284	555-5064		
308-0864 †	6461A	555-5007	382-8064	383-0164 383-0264
308-0866	JM207049	555-5088	382-8066	383-0166
	JM205149	555-5089		
308-0870	JF7049A	555-5297	N/A	N/A
309-0903 †	580 582	555-5072	392-9094	393-0103 393-0203
309-0904 †	663 HM516449, -C	555-5072	392-9112	393-0104 393-0204

GUARDIAN® / GUARDIAN®HP SEAL NO.	INNER BEARING CONE	UNIVERSAL TOOL HEAD	STANDARD/ GRIT GUARD® SET	VOYAGER® DISCOVER®
309-0912	47685 47686	555-5031	392-9099	393-0112 393-0212
	47678 5760	555-5074		
309-0915	47685 47686	555-5031	392-9099	N/A
309-0935	33281 Thru 61	555-5002	392-9035	N/A
	33287 62 Up	555-5011		
309-0948	687 780	555-5004	392-9089	393-0148
309-0957	495AX	555-5074	392-9057	N/A
	33287	555-5011		
309-0960	594A	555-5076	392-9132	N/A
	598A	555-5071		
309-0961	580 582 663A	555-5072	392-9095	N/A
	594 594A	555-5076	392-9088	N/A
309-0965	595	555-5072	392-9096	N/A
	598	555-5071		
309-0970	683XA 683	555-5076	392-9087	N/A
	681A	555-5071		
309-0973 †	594 594A	555-5076	392-9131	393-0173 393-0273
	598 598A	555-5071		

Numbers with a red **X** indicate discontinued part numbers.
Use Universal Tool Body 555-0001 with 555 Series Tool Heads.

AXLE RING TO HUB SEAL SET CROSS REFERENCE

QUICK REFERENCE

AXLE RING	OIL SEAL	HUB-SEAL SET
310-1007 X	320-2096 X	392-9007
310-1008	320-2018	372-7046
310-1008	320-2105 X	382-8044
310-1008	320-2164	382-8066
310-1009 X	320-2181	382-8052
310-1012 X	320-2012 X	392-9012 X
310-1013	320-2086 X	382-8001 X
310-1013	320-2109 X	None
310-1017 X	320-2017 X	382-8017
310-1018	320-2029 X	372-7018 X
310-1018	320-2029 X	392-7018
310-1018	320-2104	392-9057
310-1022	320-2023	372-7022
310-1023 X	320-2023	None
310-1023 X	320-2173 X	372-7024 X
310-1026 X	320-2131	None
310-1028 X	320-2166	382-8069 X
310-1028 X	320-2028 X	382-8028
310-1028 X	320-2041	382-8045
310-1028 X	320-2009	None
310-1032 X	320-2032 X	382-8032
310-1034 X	320-2034 X	382-8034
310-1034 X	320-2216 X	382-8071 X
310-1036	320-2032 X	372-7009 X
310-1036	320-2046 X	372-7006
310-1036	320-2031	None
310-1036	320-2036 X	382-8036
310-1036	320-2119 X	382-8027
310-1036	320-2133	382-8063
310-1037 X	320-2118	None
310-1037 X	320-2137	382-8064 X
310-1038 X	320-2039 X	382-8039 X
310-1041	320-2023	382-8060
310-1043	320-2041	372-7015
310-1048	320-2110	None
310-1050 X	320-2022 X	382-8010
310-1051	320-2031	382-8011
310-1051	320-2125 X	382-8062
310-1052 X	320-2050 X	382-8009
310-1053	320-2109	392-9032
310-1057 X	320-2109	372-7003
310-1061 X	320-2056 X	382-8005

AXLE RING	OIL SEAL	HUB-SEAL SET
310-1062 X	320-2057 X	392-9035
310-1063 X	320-2057 X	392-9036
310-1064 X	320-2136	372-7049
310-1064 X	320-2072 X	392-9038
310-1066 X	320-2061 X	392-9034 X
310-1079	320-2009	392-9081
310-1088	320-2213	None
310-1089	320-2099	392-9053
310-1093 X	320-2199	382-8056 X
310-1093 X	320-2181	382-8053 X
310-1093 X	320-2058 X	392-9033
310-1093 X	320-2113	None
310-1095	320-2001	392-9001
310-1103	320-2001	392-9062
310-1104 X	320-2077	392-9063
310-1107 X	320-2119	392-9066
310-1111 X	320-2106	None
310-1111 X	320-2115	None
310-1111 X	320-2162	None
310-1117		See 392-9045 Remarks
310-1123 X		See 392-9034 Remarks
310-1130	320-2023	372-7062
310-1233	320-2233 X	392-9111
315-1501	320-2102	392-9099
315-1502	320-2162	392-9087
315-1503	320-2023	372-7099
315-1503	320-2173	372-7091
315-1504	320-2110	372-7097
315-1506	320-2111	372-7096
315-1507	320-2109	372-7098
315-1508	320-2114	392-9096
315-1508	320-2131	392-9092
315-1509 X	320-2117 X	392-9095
315-1510	320-2118	372-7095
315-1511	320-2129	392-9094
315-1515	320-2213	392-9112
315-1516	320-2097	392-9089
315-1517 X	320-2113	392-9088
315-1519 X	320-2213	392-9130
315-1525	320-2106	392-9131
315-1530	320-2115	392-9132

Numbers with a red **X** indicate discontinued part numbers.

DEFLECTOR RING	GUARDIAN®/ GUARDIAN®HP SEAL
317-1710 ¹	308-0855
317-1743 ¹	307-0743
317-1702 ¹	308-0836
317-1703 ¹	309-0973
317-1704 ¹	307-0713
317-1705 ¹	309-0904
317-1705 ¹	307-0723
317-1706 ¹	308-0856
317-1706 ¹	309-0903

DEFLECTOR RING	GUARDIAN®/ GUARDIAN®HP SEAL
317-1707 ¹	309-0912
317-1708 ¹	308-0853
317-1709 ¹	307-0744
317-1710 ¹	308-0855
317-1711 ¹	308-0864
317-1712 ¹	309-0964
317-1713 ¹	309-0965
317-1719 ¹	309-0961
317-1721 ¹	308-0863

DEFLECTOR RING	GUARDIAN®/ GUARDIAN®HP SEAL
317-1724 ¹	309-0957
317-1726 ¹	308-0866
317-1728 ¹	309-0935
317-1756 ¹	309-0915
317-1761 ¹	309-0970
317-1761 ¹	309-0960
317-1790 ¹	309-0948
317-1724 ¹	308-0870

¹ 317-series deflector rings are component parts for the Guardian® Hub Seal. These parts are not sold separately.

STANDARD AND GRIT GUARD® HUB-SEAL TO SET CROSS REFERENCE

QUICK REFERENCE

OIL SEAL	AXLE RING	HUB-SEAL SET	INNER BEARING #	UNIVERSAL TOOL HEAD	HUB TOOL	COMMENT
320-2001	310-1095	392-9001	758	555-5069	551-5398	
			760	555-5079	551-5398	
	310-1103	392-9062	760	555-5079	551-5398	
For trailer applications, use 310-1045 (set was 370-7019).						
320-2009	310-1028 X	392-9019 X	598	555-5071	551-5356	
	310-1079	392-9081	598A	555-5071	551-5356	
320-2012 X	310-1012 X	392-9012 X	47678	555-5074	551-5405	See Set Remarks
			47686	555-5031	551-5405	
			5760	555-5074	551-5405	
320-2017 X	310-1017 X	382-8017	39581	555-5062	551-5352	1
320-2018	310-1008	372-7046	28995	555-5052	551-5351	
	310-1008	382-8018 X	45284	555-5064	551-5351	
320-2022 X	310-1050 X	382-8010	4595 or 39578	N/A	551-5381	
320-2023	310-1022	372-7022	593	None	551-5401	I-Beam Axle Model 5
	310-1023 X	372-7023 X	593 & HM518445	555-5023	551-5401	Pro-Par
	310-1041	382-8060	5760 or 6461	555-5023	551-5401	
	310-1130	372-7062	592A or 593	555-5023	551-5401	Modified No. 5 1
	315-1503	372-7099	HM518445	555-5023	551-5401	Grit Guard® for Pro-Par only
320-2028 X	310-1028 X	382-8028	756A	555-5067	551-5385	
320-2029 X	310-1018	372-7018 X	495AX	555-5074	551-5386	Ford thru 1969-70 Up use 392-9057 1
	310-1018	392-9018	495AX	555-5074	551-5386	
320-2031	310-1036	382-8025 X	557A OR HM212044	555-5061	551-5388	
	310-1051	382-8011	559 or 3982	None	551-5388	
320-2032 X	310-1032 X	382-8032	HM212049	None	551-5388	
	310-1036	372-7009 X	39250	555-5066	551-5388	
320-2034 X	310-1034 X	382-8034	HM212047	555-5066	551-5387	1
320-2036 X	310-1036 X	382-8036	39581	555-5062	551-5346	
			557A or HM212044	555-5061	551-5346	
			HM212047	555-5066	551-5346	
			HM212049	555-5098	551-5346	
			HM212049X	555-5098	551-5346	
320-2039	310-1038	382-8039 X	641 or HM212049	None	551-5395 551-5413 3	Replaced by Voyager® Seal 383-8139 2
320-2041	310-1028 X	382-8045	756A	555-5067	551-5398	C&M K-30 Std. Forge TA- 26, A-26-S
	310-1043	372-7015	759	555-5023	551-5398	
320-2046 X	310-1036 X	372-7006	567	555-5011	551-5388	
320-2050 X	310-1052 X	382-8009	45284 or 45285	555-5036	551-5347	1
320-2051 X	310-1047 X	372-7008 X	560S	555-5011	551-5388	1
320-2056 X	310-1061 X	382-8005	3778	555-5001	551-5302	1
320-2057 X	310-1062 X	392-9035	33287	555-5011	551-5353	1
	310-1063 X	392-9036	33281	555-5002	551-5353	1
320-2058 X	310-1093	392-9033	663, 749A or 6559	555-5072	551-5303	Gaskets Must Be Ordered Separately
320-2059	See Catalog 392-9053 and/or 392-9089 Remarks.					
320-2061	310-1066	392-9034 X	6580	555-5023	551-5356	Gasket Sold Separately
			6559	555-5072	551-5356	
320-2072	310-1064 X	372-7048 X	3984	555-5097	551-5308	1
	310-1064 X	392-9038	3984	555-5097	551-5308	
320-2077	310-1104 X	392-9063	188931	555-5054	551-5362	
			387AS or 7451929	555-5062	551-5362	
320-2086	310-1013	382-8001 X	6386 or 6389	555-5060	551-5311	
			6379	555-5014		

Numbers with a red X indicate discontinued part numbers.

1 Oil seal installs in bearing cup bore.

2 Oil seal installs in bearing cup bore on steel hubs. On spoke wheels use seal bore.

3 Voyager® Seal tool.

STANDARD AND GRIT GUARD® HUB SEAL TO SET CROSS REFERENCE

QUICK REFERENCE

OIL SEAL	AXLE RING	HUB-SEAL SET	INNER BEARING #	UNIVERSAL TOOL HEAD	HUB TOOL	COMMENT
320-2091 X	SEE COMMENTS W/ 392-9045 SET	392-9045	33287	555-5011	551-5312	
			33281	555-5002		
			495AX	555-5074		
			47686	555-5031		
320-2096 X	310-1007 X	392-9007	663 or HM516449	555-5072	551-5390	Cast housings use 392-9004
320-2097	315-1516	392-9089	687 or 780	555-5004	551-5400	
320-2102	315-1501	392-9099	47685 or 47686	555-5031	551-5318	Grit Guard® 1
			47678	555-5074	551-5318	
320-2104	310-1018	392-9057	495AX	555-5074	551-5383	Ford 1970 Up Thru 1969 use 392-9018
320-2105 X	310-1008	382-8044	45284	555-5064	551-5351	
320-2106	315-1525	392-9131	598 or 598A	555-5071	551-5320	Grit Guard® Used with or without Wabco ABS
			594 or 594A	555-5076	551-5320	
320-2109	310-1053	392-9032	580 575	555-5072 555-5074	551-5313 551-5313	
	310-1057 X	372-7003	663	555-5031	551-5313	KB-5, KB-6 T-18-W only
	315-1507	372-7098	663	555-5100	551-5313	Grit Guard®
320-2110	315-1504	372-7097	HM218248	555-5039	551-5412	Grit Guard®
320-2111	315-1506	372-7096	787	555-5016	551-5323	Grit Guard®
320-2113	315-1517 X	392-9088	594 or 594A	555-5076	551-5412	Grit Guard® 1
320-2114	315-1508	392-9096	595	555-5072	551-5412	Grit Guard® 1
			598	555-5071	551-5412	
320-2115	310-1113 X	392-9020 X	665	555-5068	551-5356	1
	310-1107	392-9066	592A/594A	555-5076	551-5356	Van Hool Bus Appl 1
	315-1530 X	392-9132	592A/594A	555-5076	551-5356	Used with or without Wabco ABS
			592A/598A	555-5071	551-5356	
320-2117	315-1509 X	392-9095	582 or 663A	555-5072	551-5325	Grit Guard®
320-2118	315-1510	372-7095	665A	555-5069	551-5321	Grit Guard®
320-2119	310-1036 X	382-8027	39581	555-5062	551-5353	
320-2125	310-1051	382-8062	39585	None	551-5388	1
320-2129	315-1511	392-9094	580 or 582	555-5072	551-5393	Grit Guard®
320-2131	315-1508	392-9092	598	555-5071	551-5363	Grit Guard®
320-2133	310-1036 X	382-8063	39581	555-5062	551-5353	
			45284	555-5064	551-5353	
320-2136	310-1064 X	372-7049	JM511946	555-5055	551-5381	
320-2137	310-1037 X	382-8064	6461A	555-5007	551-5327	Replaced by 383-0164
320-2162	315-1502	392-9087	681A	555-5071	551-5333	See Set Remarks
			683	555-5076	551-5333	Grit Guard®
320-2164	310-1008	382-8066	JM207049	555-5088	551-5366	
			JM205149	555-5089	551-5366	
320-2166	310-1028 X	382-8069 X	6386	None	551-5340	Volvo Front
320-2173	310-1023 X	372-7024 X	749 or 749S	555-5024	551-5401	
	315-1503	372-7091	749 or 749S	555-5024	551-5401	Grit Guard®
	310-1009 X	382-8052	6386A	555-5060	551-5349	
320-2181	310-1093	382-8053 X	641 or HM212049	555-5060	551-5349	
			H715345	555-5070	551-5349	
320-2199	310-1093	382-8056 X	H715345	555-5070	551-5344	
320-2213	315-1515	392-9112	663 or HM516449,-C HM516449A	555-5072	551-5364	Grit Guard®
	315-1519 X	392-9130		555-5073		
320-2216	310-1034 X	382-8071	HM212011/ HM212047	555-5066	551-5403	
320-2233	310-1233 X	392-9111	593X/594	555-5076	551-5404	Mack Midliner

Numbers with a red X indicate discontinued part numbers.



HEAVY DUTY BEARINGS



UNRIVALED PERFORMANCE, UNBELIEVABLE VALUE

Bearings are at the heart of commercial trucking. Inferior quality can cost far more than the money it saves. STEMCO® heavy-duty bearings deliver unmatched quality and reliability and are part of our promise of Making the Roadways Safer®.

State of the Art Manufacturing

We design and manufacture all of our bearings, ensuring unparalleled reliability and a product that meets or exceeds ABMA specifications for bearing life.

Expanded Bearing Coverage

We offer tapered roller bearings, radial ball bearings, clutch release bearings, individual cups and cones and matched bearing sets.

Long Life Warranty

STEMCO offers a 3-year aftermarket limited warranty when used in conjunction with our Platinum Performance System™ or up to a 7-year OEM warranty with our Platinum Performance System™+7 (PPS+7).

Trusted Quality

Innovative designs paired with exceptional manufacturing systems and a commitment to roadway safety make STEMCO a trusted, reliable wheel end component supplier.

STEMCO QUALITY BEARING REFERENCE GUIDE

STEMCO MATCHED BEARING SETS

P/N	COMPONENTS
ASET047-011	KHM212047 / KHM212011
ASET049-011	KHM212049 / KHM212011
ASET248-210	KHM218248 / KHM218210
ASET445-410	KHM518445 / KHM518410
ASET449A-410	KHM516449A / KHM516410
ASET555S-52A	K555S / K552A
ASET567-563	K567 / K563
ASET580-72	K580 / K572
ASET582-572	K582 / K572
ASET594A-92A	K594A / K592A
ASET598A-92A	K598A / K592A
ASET663-53	K663 / K653
ASET687-672	K687 / K672
ASET3782-20	K3782 / K3720
ASET6461A-20	K6461A / K6420
ASET45280-20	K45280 / K45220
ASET47679-20	K47679 / K47620

STEMCO "A" LINE BEARINGS

P/N	INDUSTRY STANDARD P/N
ASET049-011	KHM212049 / KHM212011
A212049	KHM212049
A212011	KHM212011
ASET248-210	KHM218248 / KHM248210
A218248	KHM218248
A218210	KHM218210
ASET594A-92A	K594A / K592A
A594A	K594A
A592A	K592A
ASET580-72	K580 / K572
A580	K580
A572	K572
ASET3782-20	K3782 / K3720
A3782	K3782
A3720	K3720
ASET445-410	KHM518445 / KHM518410
A518445	KHM518445
A518410	KHM518410
ASET663-53	K663 / K653
A663	K663
A653	K653
ASET047-011	KHM212047 / KHM212011
A212047	KHM212047
A212011	KHM212011
ASET45280-20	K45280 / K45220
A45280	K45280
A45220	K45220
ASET6461A-20	K6461A / K6420
A6461A	K6461A
A6420	K6420
ASET555S-52A	K555S / K552A
A555S	K555S
A552A	K552A
ASET449A-410	KHM516449A / KHM516410
A516449A	KHM516449A
A516410	KHM516410

STEMCO "A" LINE BEARINGS (CONT.)

P/N	INDUSTRY STANDARD P/N
ASET47679-20	K47679 / K47620
A47679	K47679
A47620	K47620
ASET567-563	K567 / K563
A567	K567
A563	K563
ASET582-572	K582 / K572
A582	K582
A572	K572
ASET687-672	K687 / K672
A687	K687
A672	K672
ASET598A-92A	K598A / K592A
A598A	K598A
A592A	K592A

MATCHED BEARING SETS

P/N	COMPONENTS
SET047-011	HM212047 / HM212011
SET049-011	HM212049 / HM212011
SET248-210	HM218248 / HM218210
SET445-410	HM518445 / HM518410
SET449-410	HM516449 / HM516410
SET580-72	580 / 572
SET582-72	582 / 572
SET594A-92A	594A / 592A
SET598A-92A	598A / 592A
SET663-53	663 / 653
SET3782-20	3782 / 3720
SET28682-22	28682 / 28622
SET39590-20	39590 / 39520
SET45280-20	45280 / 45220
SET45284-20	45284 / 45220
SET47679-20	47679 / 47620
SET47686-20	47686 / 47620

BALL/CLUTCH RELEASE/TAPERED BEARING SETS

P/N	DESCRIPTION
F-01757-C	N1707
02135	N2135
02256A	N2256-N
A16	LM12749 / LM12711
A34	LM12748 / LM12710
A38	LM104949 / LM104911
105-SS1	Ball Bearing, 2 Shields
205-FF	Ball Bearing, 2 Seals
205-SS	Ball Bearing, 2 Shields
206-FF	Ball Bearing, 2 Seals
206-SS	Ball Bearing, 2 Shields
305-FF	Ball Bearing, 2 Seals
305-SS	Ball Bearing, 2 Shields
306-FF	Ball Bearing, 2 Seals
306-SS	Ball Bearing, 2 Shields
306-SSL	Ball Bearing, 2 Shields, Snap Ring
308-L	Ball Bearing, Snap Ring
1308-L	Ball Bearing, Snap Ring

* Multiply last 2 numbers by 5 to get Bore Size.

HEAVY DUTY TAPERED ROLLER BEARINGS

P/N	DESCRIPTION
382A	Tapered Roller Cup, Truck
387AS	Tapered Roller Cone, Truck
493	Tapered Roller Cup, Truck
552A	Tapered Roller Cup, Front Axle
555S	Tapered Roller Cone, Front Axle
557S	Tapered Roller Cone, Front Axle
563	Tapered Roller Cup, Front Axle
567	Tapered Roller Cone, Front Axle
572	Tapered Roller Cup, Truck Axle
580	Tapered Roller Cone, Truck Axle
582	Tapered Roller Cone, Truck Axle
592A	Tapered Roller Cup, Truck/Trailer
594	Tapered Roller Cone, Front Axle
594A	Tapered Roller Cone, Front Axle
598A	Tapered Roller Cone, Front Axle
653	Tapered Roller Cup, Trailer/Truck Axle
663	Tapered Roller Cone, Trailer/Truck Axle
665A	Tapered Roller Cone, Trailer/Truck Axle
742	Tapered Roller Cup, Truck Axle
749	Tapered Roller Cone, Truck Axle
3720	Tapered Roller Cup, Front Axle
3782	Tapered Roller Cone, Front Axle
3920	Tapered Roller Cup, Truck Axle
6420	Tapered Roller Cup, Front Axle
6461A	Tapered Roller Cone, Front Axle
6535	Tapered Roller Cup, Truck Axle
6580	Tapered Roller Cone, Truck Axle
15245	Tapered Roller Cup, Truck Axle
15250	Tapered Roller Cup, Truck Axle
25520	Tapered Roller Cup, Truck Axle
25580	Tapered Roller Cone, Truck Axle
25820	Tapered Roller Cup, Truck Axle
25877	Tapered Roller Cone, Truck Axle
28682	Tapered Roller Cone, Truck Axle
39520	Tapered Roller Cup, Truck Axle
39585	Tapered Roller Cone, Truck Axle
39590	Tapered Roller Cone, Truck Axle
45220	Tapered Roller Cup, Front Axle
45280	Tapered Roller Cone, Front Axle
47620	Tapered Roller Cup, Rear Axle
47679	Tapered Roller Cone, Rear Axle
47686	Tapered Roller Cone, Rear Axle
H715311	Tapered Roller Cup, Truck Axle
H715345	Tapered Roller Cup, Truck Axle
HM212011	Tapered Roller Cup, Trailer/Front Axle
HM212047	Tapered Roller Cone, Front Axle
HM212049	Tapered Roller Cone, Trailer/Front Axle
HM218210	Tapered Roller Cup, Trailer Axle
HM218248	Tapered Roller Cone, Trailer Axle
HMS16410	Tapered Roller Cup, Rear Axle
HMS16449	Tapered Roller Cone, Rear Axle
HMS18410	Tapered Roller Cup, Trailer Axle
HMS18445	Tapered Roller Cone, Trailer Axle
JM207010	Tapered Roller Cup, Trailer Axle
JM207049A	Tapered Roller Cone, Truck Axle
LM102949	Tapered Roller Cone, Front Axle

BEARINGS TO HUB SEAL SET CROSS REFERENCE

QUICK REFERENCE

INNER CUP & CONE	OUTER CUP & CONE	GUARDIAN®/ GUARDIAN® HP SEAL NO.	GRIT GUARD®/ STANDARD SET	VOYAGER® DISCOVER®
33212	33208			383-0176
382A/387AS	LM104911/ LM104949		392-9063	
493/495AX	3920/3984		392-9018	
493/495AX	33287/33462	309-0957	392-9057	
493/495AX	39520/39590	309-0957	392-9057	
552A/559	552/526		392-9045	
552A/559	552/526		382-8011	
553X/557A	3720/3782	308-0836	382-8036	383-0136 383-0236
563/567	522/528		372-7006	
572/575	572/575		392-9032	
572/580	563/567	309-0903	392-9094*	393-0103 393-0203
572/580	42620/42687	309-0961	392-9095*	
572/582	563/567	309-0903	392-9094*	393-0103 393-0203
572/582	42620/42687	309-0961	392-9095*	
592A/593	65320/65390		372-7022 372-7062	
592A/594	572/580	309-0964	392-9088*	
592A/594	572/580	309-0973	392-9131	393-0173 393-0273
592A/594A	572/580	309-0960 309-0964	392-9132* 392-9088*	393-0173 393-0273
592A/594A	572/582	309-0960	392-9132*	
592A/595	572/580	309-0965	392-9096	
592A/598	572/575	309-0965	392-9096*	
592A/598	572/575	309-0973	392-9131	393-0173 393-0273
592A/598A	653/665	309-0965	392-9092*	
592A/598	752/758	309-0965	392-9092*	
592A/598	HM617010/ HM617049	309-0965	392-9092*	
592A/598A	572/580	309-0960	392-9132	
592A/598A	572/580	309-0973	392-9131	393-0173 393-0273
592A/598A	572/582	309-0960	392-9132*	
592A/598	HM617010/ HM617049	309-0960	392-9081 392-9132	
593X/594	593X/594		392-9111	
632/641	3920/3979	308-0853 X	382-8053	383-0153 N/A
632/641	28622/28682	308-0856 X	382-8056	383-0156 N/A
633/641	65320/65385		382-8039 X	383-8139

INNER CUP & CONE	OUTER CUP & CONE	GUARDIAN®/ GUARDIAN® HP SEAL NO.	GRIT GUARD®/ STANDARD SET	VOYAGER® DISCOVER®
652/663	572/575	309-0904	392-9112*	393-0104 393-0204
652/663	572/575		392-9007	
653/663	553X560	307-0713	372-7098*	373-0113 373-0213
653/663	HM212011/ HM212049	307-0713	372-7098*	373-0113 373-0213
653/663A	42620/42687	309-0961	372-7003	
653/663A	42620/42687	309-0961	392-9095*	
653/665A	HM212011/ HM212049	307-0744	372-7095*	
672/681A	572/575	309-0970	392-9087*	
672/683	572/580	309-0970	392-9087*	
672/683XA	572/580	309-0970	392-9087*	
672/687	772/780	309-0948	392-9089*	393-0148 N/A
672/687	52618/52400	309-0948	392-9089*	393-0148 N/A
742/749	632/643		372-7091* 372-7024	
742/749S	632/643		372-7091* 372-7024	
742/749A	653/663		392-9033	
752/756A	HM212011/ HM212046		382-8028 382-8045	
752/756A	HM212011/ HM212047		382-8028 382-8045	
752/758	663/665		392-9001	
752/759	742/740		372-7015	
752/760	742/749		392-9001	
752/760	742/749		392-9062	
772/780	772/776	309-0948	392-9089*	393-0148 N/A
772/780	854/864	309-0948	392-9089*	393-0148 N/A
772/780	52618/52400	309-0948	392-9089*	393-0148 N/A
772/780	77675/77375	309-0948	392-9089*	393-0148 N/A
772/782	742/749		392-9053	
832/843	632/636		382-8008	
3720/3778	25820/25877		382-8005	
3720/3778	2720/2790		382-8005	
3920/3982	3820/3877		382-8011	
3920/3984	453X/462		392-9038	
4536/4595	414A/418		382-8010	
5735/5760	572/575	309-0912	392-9012 X	393-0112 393-0212
5735/5760	39520/39590		382-8052	
5735/5760	45220/ 45287		382-8060	
6320/6379	552A/557S		382-8001 X	383-0101
6320/6386	552A/557S		382-8001 X	383-0101
6320/6386A	532A/537		382-8052	

Numbers with a red X indicate discontinued part numbers.

BEARINGS TO HUB SEAL SET CROSS REFERENCE

QUICK REFERENCE

INNER CUP & CONE	OUTER CUP & CONE	GUARDIAN®/ GUARDIAN® HP SEAL NO.	GRIT GUARD®/ STANDARD SET	VOYAGER® DISCOVER®
6320/6389	552A/557S		382-8001 X	383-0101
6420/6461	612/621		382-8060	
6420/6461A	552A/555S	308-0864	382-8064	383-0164 383-0264
6420/6461A	3920/3979	308-0864	382-8064	383-0164 383-0264
6535/6559	653/663		392-9033	393-0134
			392-9034 X	
6535/6580	653/663		392-9034 X	393-0134
28920/28995	25523/25580		372-7046	
33462/33281	3920/3982	309-0935	392-9035	
33462/33281	39520/39585		392-9036	
33462/33287	3920/3982	309-0935	392-9035	
33472/33281	3925/3984		392-9045	
33472/33287	3925/3982		392-9045	
33821/33895	3120/3196		382-8016	
39520/39578	25520/25572		382-8010	
39520/39581	3525/3585	308-0836	382-8036	383-0136 383-0236
		308-0863	382-8063 382-8027	
39520/39581	26820/26878		382-8017	
39520/39585	25520/25572		382-8062	
45220/45284	2720/2780		382-8044	
45220/45284	2720/2786		382-8009	
45220/45284	2720/2793		382-8009	
45220/45284	2720/2796		382-8009	
45220/45284	25820/25880	308-0863	382-8044 382-8063	
45220/45285	2720/2786		382-8009	
45220/45285	2720/2793		382-8009	
45220/45285	2720/2796		382-8009	
47620/47678	39520/39585	309-0912	392-9012 X 392-9099*	393-0112 393-0212
47620/47685	39520/39590	309-0912	392-9099*	393-0112 393-0212
		309-0912	392-9099*	393-0112 393-0212
47620/47686	39520/39590	309-0915	392-9012 X 392-9045	393-0112
127627/1889311	49521/188933		392-9063	
7451691/ 7451929	7451813/ 7451814		392-9063	
H715311/ H715345	552A/555S	308-0856	382-8056 X	383-0156 N/A
H715311/ H715345	3920/3979	308-0853	382-8053 X	383-0153 N/A
HM212010/ HM212049	28622/28682	308-0853	382-8053 X	383-0153 N/A

INNER CUP & CONE	OUTER CUP & CONE	GUARDIAN®/ GUARDIAN® HP SEAL NO.	GRIT GUARD®/ STANDARD SET	VOYAGER® DISCOVER®
HM212011/ HM212044	3720/3782	308-0836	382-8036	383-0136 383-0236
HM212011/ HM212047	3720/3779		382-8034	
HM212011/ HM212047	3720/3782	308-0836	382-8036	383-0136 383-0236
HM212011/ HM212047	45220/ 45282		382-8034 382-8071 X	383-0171
HM212011/ HM212049	3720/3782	308-0836	382-8036	383-0136 383-0236
			382-8032	
HM212011/ HM212049	45220/45280		382-8039 X	383-0139 383-0239
HM212011/ HM212049X	3720/3782	308-0836	382-8036	383-0136 383-0236
HM218210/ HM218248	HM212011/ HM212049	307-0743	372-7097	373-0143 373-0243
JM205110/ JM205149	25820/25877	308-0866	382-8066	383-0166 383-0175
JM207010/ JM207049	25820/25877	308-0866	382-8066	383-0166
HMS16410/ HMS16449	572/575		392-9007	
HMS16410/ HMS16449	47620/47679	309-0904	392-9112	393-0104 393-0204
			392-9007	
HMS16410/ HMS16449A	47620/47679	309-0904	392-9130	*393-0104 393-0204
HMS18410/ HMS18445	HM518410/ HM518445	307-0723	372-7099	373-0123 373-0223
JM205149	32207			383-0175
JM205110/ JM204149A	25820/25877		382-8066	383-0166
JM511910/ JM510946	JM205110/ JM205149		372-7049	
JF7049A		308-0870		
33212	33208			383-0176

Numbers with a red X indicate discontinued part numbers.

WHEN IT COMES TO WHEEL ENDS, WE HAVE YOU COVERED

STEMCO has provided the trucking industry with reliable hub seals for more than 40 years. Throughout our history, we have recognized the need for tougher, longer life seals that meet the performance, design and price requirements related to selecting the right seal for any fleet. To meet that need, STEMCO has engineered a menu of sealing options designed to meet the varying performance expectations of each fleet, all in an effort to maximize performance and value.

SELECTING THE RIGHT STEMCO SEAL FOR THE RIGHT APPLICATION.



DISCOVER® IS DESIGNED FOR THE LONG HAUL CARRIER seeking high performance components. The Discover seal is an excellent choice for fleets running outboard-mounted drums that allow brake changes without seal replacement. The long life characteristics of this seal, proven in testing that exceeds competitive products' performance by five times, make it the industry choice for performance driven fleet managers.



THE VOYAGER® SEAL IS DESIGNED FOR REGIONAL ROUTE TRUCKS, city delivery and coach applications. Rugged design, simple installation and proven performance make Voyager the right choice for fleets looking for a superior brake job-to-brake job seal. In the everyday stop-and-go traffic environment these vehicles experience, the Voyager seal is the best value.



THE GUARDIAN® HP IS THE STANDARD SEAL for trailer and axle original equipment manufacturers. The axle installation is durable and unique, and has proven successful for more than 40 years. Today, its enhanced features offer improved cost-per-mile performance. With simple one-step axle installation, Guardian HP is the seal of choice in the trailer industry.



GRIT GUARD® IS ALWAYS ROUGH AND READY and has endured more than forty years of dirty, unfriendly road environments that destroy wheel end components. So with this sixty year plus track record of performance, Grit Guard endures where others fail, and is still the choice for fleets working in grueling environments.

GUARDIAN® & GUARDIAN® HP TRAILER AXLE HUB SEALS

SEAL SETS: TRAILER AXLES

GUARDIAN HP - TRAILER AXLE 307-0713	
BORE DIAMETER	5.700
INNER BEARING CUP/CONE	653/663
OUTER BEARING CUP/CONE	553X/560, HM212011/HM212049
SPINDLE SHOULDER O.D.	4.000
WIDTH	0.604
UNIV. AXLE TOOL HEAD	555-5100
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	372-7098
VOYAGER® EQUIV.	373-0113
DISCOVER® EQUIV.	373-0213

REMARKS: Do not use on early hubs and wheels that have seal bore diameter greater than 5.758".

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013

GUARDIAN HP - TRAILER AXLE 307-0743	
BORE DIAMETER	6.000
INNER BEARING CUP/CONE	HM218210/HM218248
OUTER BEARING CUP/CONE	HM212011/HM212049
SPINDLE SHOULDER O.D.	4.625
WIDTH	0.584
UNIV. AXLE TOOL HEAD	555-5039
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	372-7097
VOYAGER® EQUIV.	373-0143
DISCOVER® EQUIV.	373-0243

REMARKS: Will not fit Std. Forge Hub mtg. prior to 8/71 nor Kershaw K-22 Axle prior to 1/73, nor Std. Forge A22-S Axle prior to 5/71, nor KBW prior to 1/78.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013

GUARDIAN HP - TRAILER AXLE 307-0723	
BORE DIAMETER	6.008
INNER BEARING CUP/CONE	HM518410/HM518445
OUTER BEARING CUP/CONE	HM518410/HM518445
WIDTH	0.5629
UNIV. AXLE TOOL HEAD	555-5023
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	372-7099
VOYAGER® EQUIV.	373-0123
DISCOVER® EQUIV.	373-0223

REMARKS: Guardian® set for Pro-Par axle; Also Eaton P-22 and Meritor TP Hub Cap tool #570-7008.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4075	330-3077
340-4195	330-3118

GUARDIAN HP - TRAILER AXLE 307-0744	
BORE DIAMETER	5.753
INNER BEARING CUP/CONE	653/665A
OUTER BEARING CUP/CONE	HM212011/HM212049
SPINDLE SHOULDER O.D.	4.625
WIDTH	0.584
UNIV. AXLE TOOL HEAD	555-5069
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	372-7095
VOYAGER® EQUIV.	373-0144

REMARKS: Do not use with Budd hubs having seal bore diameter greater than 5.758. When used with Eaton inboard skid control, use 320-2118 & 310-1037.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013

Very Important. These seal sets must be installed with the tools listed in this catalog.

Hub caps sold separately.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001.

** For hub cap with pipe plug use 343-prefix.

VOYAGER® & DISCOVER® TRAILER AXLE HUB SEALS

SEAL SETS: TRAILER AXLES

VOYAGER & DISCOVER - TRAILER AXLE 373-0113 373-0213	
BORE DIAMETER	5.750
INNER BEARING CUP / CONE	653/663
OUTER BEARING CUP/CONE	553X/560, HM212011/HM212049
BEARING GUIDE	570-0023
SPINDLE SHOULDER O.D.	4.000
WIDTH	0.9399
FLEET HUB TOOL	551-5313
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	307-0713
GRIT GUARD® EQUIV.	372-7098

REMARKS: Do not use on early hubs and wheels that have seal bore diameter greater than 5.758".

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013

VOYAGER & DISCOVER - TRAILER AXLE 373-0143 373-0243	
BORE DIAMETER	6.000
INNER BEARING CUP/CONE	HM218210/HM218248
OUTER BEARING CUP/CONE	HM212011/HM212049
BEARING GUIDE	570-0026
SPINDLE SHOULDER O.D.	4.625
WIDTH	0.981
FLEET HUB TOOL	551-5412
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	307-0743
GRIT GUARD® EQUIV.	372-7097

REMARKS: Will not fit Std. Forge Hub mfd. prior to 8/71 nor Kershaw K22 Axle prior to 1/73, nor x prior to 1/73, nor Std. Forge A22-S KBW prior to 1/78.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013

VOYAGER - TRAILER AXLE 373-0191	
BORE DIAMETER	6.032
INNER BEARING CUP/CONE	742/749 or 749S
OUTER BEARING CUP/CONE	632/643
BEARING GUIDE	570-0003
SPINDLE SHOULDER O.D.	4.625
WIDTH	0.981
FLEET HUB TOOL	551-5401
INSTALL HANDLE/BODY	551-0001
GRIT GUARD® EQUIV.	372-7091

REMARKS: Will not fit S/F A-21-T prior to 6/71. Will not fit Gunite Wheels R-20-319 or T22-319.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4011	330-3011
340-4163	330-3104
340-4059	330-3056

VOYAGER & DISCOVER - TRAILER AXLE 373-0123 373-0223	
BORE DIAMETER	6.008
INNER BEARING CUP/CONE	HM518410/ HM518445
OUTER BEARING CUP/CONE	HM518410/ HM518445
BEARING GUIDE	570-0025
SPINDLE SHOULDER O.D.	4.250
WIDTH	0.995
FLEET HUB TOOL	551-5401
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	307-0723
GRIT GUARD® EQUIV.	372-7099

REMARKS: Fits Pro-Par axle; also Eaton P-22 and Meritor TP. Hub cap tool #570-7008.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4075	330-3077
340-4195	330-3118

VOYAGER - TRAILER AXLE 373-0144	
BORE DIAMETER	5.753
INNER BEARING CUP/CONE	653/665A
OUTER BEARING CUP/CONE	HM212011/ HM212049
BEARING GUIDE	570-0024
SPINDLE SHOULDER O.D.	4.375
WIDTH	0.993
FLEET HUB TOOL	551-5339
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	307-0744
GRIT GUARD® EQUIV.	372-7095

REMARKS: Do not use with Budd hubs having seal bore diameter greater than 5.758. When used with Eaton inboard skid control, use 320-2118 & 310-1037. Use Hub tool 551-5321 with 372-7095

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013

Very Important. These seal sets must be installed with the tools listed in this catalog.

Hub caps sold separately.

NOTE: Use 551 series tools with new Universal Hub Tool Handle 551-0001 (installs 320 series Voyager® and Discover® seals).

** For hub cap with pipe plug use 343-prefix.

STANDARD TRAILER AXLE HUB SEALS

SEAL SETS: TRAILER AXLES

STANDARD - TRAILER AXLE 372-7003	
BORE DIAMETER	5.750
AXLE RING	310-1057 X
OIL SEAL BORE DIAMETER	320-2109 5.750
INNER BEARING CUP/CONE	653/663
OUTER BEARING CUP/CONE	HM212011/HM212049, 553X/560
UNIVERSAL AXLE TOOL HEAD	555-5031
UNIVERSAL HUB TOOL HEAD	551-5313
INSTALLATION HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0023

REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4015*	330-3015

STANDARD - TRAILER AXLE 372-7006	
BORE DIAMETER	5.003
AXLE RING	310-1036 X
OIL SEAL BORE DIAMETER	320-2046 X 5.003
INNER BEARING CUP/CONE	563/567
OUTER BEARING CUP/CONE	522/528
UNIVERSAL AXLE TOOL HEAD	555-5011
UNIVERSAL HUB TOOL HEAD	551-5388
INSTALLATION HANDLE/BODY	555-0001 & 551-0001

REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4002	330-3002
340-4009	330-3009
340-4011	330-3011
340-4014	330-3014
340-4024	330-3024

Numbers with a red **X** indicate discontinued part numbers.

Very Important. These seal sets must be installed with the tools listed in this catalog.

Hub caps sold separately.

* Not available with pipe plug.

** For hub cap with pipe plug use 343-prefix.

STANDARD - TRAILER AXLE 372-7015	
BORE DIAMETER	6.437
AXLE RING	310-1043
OIL SEAL BORE DIAMETER	320-2041 6.437
INNER BEARING CUP/CONE	752/759
OUTER BEARING CUP/CONE	742/740
UNIVERSAL AXLE TOOL HEAD	555-5023
UNIVERSAL HUB TOOL HEAD	551-5398
INSTALLATION HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0025

REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4054*	330-3017
340-4082	330-3062
340-4064	330-3079

*Not available with pipe plug.

STANDARD - TRAILER AXLE 372-7022	
BORE DIAMETER	6.008
AXLE RING	310-1022
OIL SEAL BORE DIAMETER	320-2023 6.008
INNER BEARING CUP/CONE	592A/593
OUTER BEARING CUP/CONE	65320/65390
UNIVERSAL AXLE TOOL HEAD	NONE
UNIVERSAL HUB TOOL HEAD	551-5401
INSTALLATION HANDLE/ BODY	555-0001 & 551-0001
BEARING GUIDE	570-0025

REMARKS: Fruehauf No. 5 (Prior to Feb. 1960) includes O-ring 355-5502

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4019	330-3019

STANDARD - TRAILER AXLE 372-7046	
BORE DIAMETER	4.125
AXLE RING	310-1008
OIL SEAL BORE DIAMETER	320-2018 4.125
INNER BEARING CUP/CONE	28920/ 28995
OUTER BEARING CUP/CONE	25523/ 25580
UNIV. AXLE TOOL HEAD	555-5052
UNIV. HUB TOOL HEAD	551-5351
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4157*	330-3102

*Not available with pipe plug.

STANDARD - TRAILER AXLE 372-7049	
BORE DIAMETER	4.500
AXLE RING	310-1064 X
OIL SEAL BORE DIAMETER	320-2136 X 4.500
INNER BEARING CUP/CONE	JM511910/ JM511946
OUTER BEARING CUP/CONE	JM205110/ JM205149
UNIV. AXLE TOOL HEAD	555-5055
UNIV. HUB TOOL HEAD	551-5381
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4139*	330-3094

*Not available with pipe plug.

STANDARD - TRAILER AXLE 372-7062	
BORE DIAMETER	6.008
AXLE RING	310-1130
OIL SEAL BORE DIAMETER	320-2023 6.008
INNER BEARING CUP/CONE	592A/593
OUTER BEARING CUP/CONE	65320/65390 HH506310/HH506348
UNIV. AXLE TOOL HEAD	555-5023
UNIV. HUB TOOL HEAD	551-5401
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0025

REMARKS: Fruehauf Modified #5, 2/60 & up.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4019	330-3019

GRIT GUARD® TRAILER AXLE HUB SEALS

SEAL SETS: TRAILER AXLES

GRIT GUARD - TRAILER AXLE 372-7091	
BORE DIAMETER	6.032
AXLE RING	315-1503
OIL SEAL BORE DIAMETER	320-2173 6.032
INNER BEARING CUP/CONE	742/749 or 749S
OUTER BEARING CUP/CONE	632/643
UNIVERSAL AXLE TOOL HEAD	555-5024
UNIVERSAL HUB TOOL HEAD	551-5401
INSTALLATION HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	N/A

REMARKS: Will not fit S/F A-21-T prior to 6/71. Will not fit Gunita wheels R20-319 or T22-319.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4011	330-3011
340-4163	330-3104
340-4059	330-3056

For Voyager® Seal No. 309-0173, 6.032" Bore, See Pg. 30

GRIT GUARD - TRAILER AXLE 372-7095	
BORE DIAMETER	5.753
AXLE RING	315-1510
OIL SEAL BORE DIAMETER	320-2118 5.753
INNER BEARING CUP/CONE	653/665A
OUTER BEARING CUP/CONE	HM212011/HM212049
UNIVERSAL AXLE TOOL HEAD	555-5069
UNIVERSAL HUB TOOL HEAD	551-5321
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0024

REMARKS: Do not use with Budd hubs having seal bore diameter greater than 5.758. When used with Eaton inboard skid control, use **320-2118** and **310-1037**.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013
340-4015*	330-3015

For Guardian® Seal No. 307-0744, 5.753" Bore, See Pg. 16
For Voyager® Seal No. 373-0144, 5.753" Bore, See Pg. 18

GRIT GUARD - TRAILER AXLE 372-7096	
BORE DIAMETER	7.135
AXLE RING	315-1506
OIL SEAL BORE DIAMETER	320-2111 7.135
INNER BEARING CUP/CONE	772/787
OUTER BEARING CUP/CONE	6535/6580
UNIVERSAL AXLE TOOL HEAD	555-5016
UNIVERSAL HUB TOOL HEAD	551-5323
INSTALLATION HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	N/A

REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
343-4107	330-3084

GRIT GUARD - TRAILER AXLE 372-7097	
BORE DIAMETER	6.000
AXLE RING	315-1504
OIL SEAL BORE DIAMETER	320-2110 6.000
INNER BEARING CUP/CONE	HM218210/HM218248
OUTER BEARING CUP/CONE	HM212011/HM212049
UNIVERSAL AXLE TOOL HEAD	555-5039
UNIVERSAL HUB TOOL HEAD	551-5412
INSTALLATION HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0026

REMARKS: Will not fit:

- Std. Forge Hub mfg. prior to 8/71
- Kershaw K-22 axle prior to 1/73
- Std Forge A22-S axle prior to 5/71
- KBW prior to 1/78.

Ring **315-1504** will not fit shoulders less than .625, use **310-1048**.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013

For Guardian® HP Seal No. 307-0743, 6.000" Bore, See Pg. 16
For Voyager® Seal No. 373-0143, 6.000" Bore, See Pg. 18
For Discover® Seal No. 373-0243, 6.000" Bore, See Pg. 18

GRIT GUARD - TRAILER AXLE 372-7098	
AXLE RING	315-1507
OIL SEAL BORE DIAMETER	320-2109 5.750
INNER BEARING CUP/CONE	653/663
OUTER BEARING CUP/CONE	553X/560 HM212011/HM212049
UNIVERSAL AXLE TOOL HEAD	555-5100
UNIVERSAL HUB TOOL HEAD	551-5313
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0023

REMARKS: Do not use on early hubs and wheels that have seal bore diameter greater than 5.758".

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4013	330-3013
340-4015*	330-3015

For Guardian® HP Seal No. 307-0713, 5.750" Bore, See Pg. 16
For Voyager® Seal No. 373-0113, 5.750" Bore, See Pg. 18
For Discover® Seal No. 373-0213, 5.750" Bore, See Pg. 18

GRIT GUARD - TRAILER AXLE 372-7099	
AXLE RING	315-1503
OIL SEAL BORE DIAMETER	320-2023 6.008
INNER BEARING CUP/CONE	HM518410/HM518445
OUTER BEARING CUP/CONE	HM518410/HM518445
UNIVERSAL AXLE TOOL HEAD	555-5023
UNIVERSAL HUB TOOL HEAD	551-5401
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0025

REMARKS: Fits Pro-Par axle, Eaton P-22 and Meritor TP.
Hub Cap Tool No. 570-7008

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4075	330-3077
340-4195	330-3118

For Guardian® HP Seal No. 307-0723, 6.008" Bore, See Pg. 16
For Voyager® Seal No. 373-0123, 6.008" Bore, See Pg. 18
For Discover® Seal No. 373-0223, 6.008" Bore, See Pg. 18

GUARDIAN® STEER AXLE HUB SEALS

SEAL SETS: STEER AXLES

GUARDIAN HP - FRONT AXLE 308-0836	
BORE DIAMETER	4.840

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	39520/39581
OUTER BEARING CUP/CONE	3525/3585
TOOL HEAD	555-5062

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212044, 553X/557A
OUTER BEARING CUP/CONE	3720/3782
TOOL HEAD	555-5061

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/ HM212049 HM212011/ HM212049-X, X1
OUTER BEARING CUP/CONE	3720/3782
TOOL HEAD	555-5098

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212047
OUTER BEARING CUP/CONE	3720/3782
TOOL HEAD	555-5066

SPINDLE SHOULDER O.D.	3.500
WIDTH	0.840
INSTALL HANDLE/BODY	555-0001
STANDARD SET EQUIV.	382-8036
VOYAGER® EQUIV.	383-0136
DISCOVER® EQUIV.	383-0236

REMARKS: Ford 9000# axle. Code N (FD-900), with 15x3 or 15x3-1/2 wedge brakes, use **382-8027** set. GMC only (FE-900), prior to 1960 use, **310-1036** and **320-2031**. Be sure steering adjustment stop bolt does not interfere with ring.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4024	330-3024
340-4095	330-3009
340-4028	330-3028
340-4186	330-3120
340-4042	330-3041
340-4249	330-3122
340-4066	330-3041
340-4046	330-3009
340-4034	330-3034
340-4149	330-3097

GUARDIAN - FRONT AXLE 308-0853	
BORE DIAMETER	5.372

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	632/641
OUTER BEARING CUP/CONE	3920/3979
TOOL HEAD	555-5060

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	H715311/H715345
OUTER BEARING CUP/CONE	3920/3979
TOOL HEAD	555-5070

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212001/HM212049
OUTER BEARING CUP/CONE	28622/28682
TOOL HEAD	555-5060

WIDTH	0.518
INSTALL HANDLE/BODY	555-0001
STANDARD SET EQUIV.	382-8053 X
VOYAGER® EQUIV.	383-0153

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4046	330-3009
340-4249	330-3122
340-4095	330-3009

GUARDIAN - FRONT AXLE 308-0855	
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BORE DIAMETER	5.875
INNER BEARING CUP/CONE	632/641
OUTER BEARING CUP/CONE	28622/28682
UNIVERSAL AXLE TOOL HEAD	555-5060
WIDTH	0.820
INSTALLATION HANDLE/BODY	555-0001
VOYAGER® EQUIV.	383-0156

REMARKS: Use with FA-109 1979 & up spoke wheel number 45493-C2. Must be used with hydraulic brakes after 75. FA-109 comes with hydraulic brakes. IHC application.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4249	330-3122

GUARDIAN - FRONT AXLE 308-0856	
BORE DIAMETER	5.875

INNER BEARING CUP/CONE	H715311/H715345, 632/641
OUTER BEARING CUP/CONE	28622/28682, 552A/555S
UNIVERSAL AXLE TOOL HEAD	555-5070
SPINDLE SHOULDER O.D.	4.500
WIDTH	0.820
INSTALL HANDLE/BODY	555-0001
STANDARD SET EQUIV.	382-8056 X
VOYAGER® EQUIV.	383-0156

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4249	330-3122
340-4046	330-3009
340-4095	330-3009

GUARDIAN - FRONT AXLE 308-0863	
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BORE DIAMETER	4.542
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BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	39520/39581
OUTER BEARING CUP/CONE	3525/3585
UNIVERSAL AXLE TOOL HEAD	555-5062

REMARKS: Ford 9000# 1975 to 1984

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	45220/45284
OUTER BEARING CUP/CONE	25820/25880
UNIVERSAL AXLE TOOL HEAD	555-5064

REMARKS: Ford 9000# 1984 up

SPINDLE SHOULDER O.D.	3.500
WIDTH	0.760
STANDARD SET EQUIV.	382-8063
INSTALL HANDLE/BODY	555-0001

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4186	330-3120

Numbers with a red X indicate discontinued part numbers.

GUARDIAN® STEER AXLE HUB SEALS

GUARDIAN - FRONT AXLE 308-0864

BORE DIAMETER	5.903
INNER BEARING CUP/CONE	6420/6461A
OUTER BEARING CUP/CONE	552A/555S, 3920/3979
UNIVERSAL AXLE TOOL HEAD	555-5007
SPINDLE SHOULDER O.D.	4.375
WIDTH	0.955
INSTALL HANDLE/BODY	555-0001
STANDARD SET EQUIV.	382-8064
VOYAGER® EQUIV.	383-0164
DISCOVER® EQUIV.	383-0264

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4046	330-3009
340-4249	330-3122
340-4049	330-3042
343-4249	330-3122
340-4066	330-3041
340-4095	330-3009
340-4149	330-3097
340-4098	330-3009

GUARDIAN - FRONT AXLE 308-0866

BORE DIAMETER	3.875
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	JM207010/JM207049A
OUTER BEARING CUP/CONE	25820/25877
TOOL HEAD	555-5088

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	JM205110/ JM205149A
OUTER BEARING CUP/CONE	25820/25877
TOOL HEAD	555-5089
WIDTH	0.495
INSTALL HANDLE/BODY	555-0001
STANDARD SET EQUIV.	382-8066
VOYAGER® EQUIV.	383-0166

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4065	330-3040

GUARDIAN - FRONT AXLE 308-0870

BORE DIAMETER	5.512
INNER BEARING CUP/CONE	JF7049A
UNIVERSAL AXLE TOOL HEAD	555-5927
SPINDLE SHOULDER O.D.	3.937
WIDTH	0.820
INSTALLATION HANDLE/BODY	555-0001

REMARKS: Volvo FA 7.5 Front AxLE

Numbers with a red **X** indicate discontinued part numbers.

Very Important. These seal sets must be installed with the tools listed in this catalog.

Hub caps sold separately.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

NOTE: Use 551 series tools with new Universal Hub Tool Handle 551-0001 (installs 320 series Voyager® and Discover® seals).

* Not available with pipe plug.

** For hub cap with pipe plug use 343-prefix.

VOYAGER® & DISCOVER® STEER AXLE HUB SEALS

SEAL SETS: STEER AXLES

VOYAGER - FRONT AXLE 383-0101	
BORE DIAMETER	5.625

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6320/6386 OR 6389
OUTER BEARING CUP/CONE	552A/557S
FLEET HUB TOOL	551-5420
BEARING GUIDE	570-0020

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6320/6379
OUTER BEARING CUP/CONE	552A/557S
BEARING GUIDE	N/A
SPINDLE SHOULDER O.D.	4.000
WIDTH	0.6250
INSTALL HANDLE/BODY	551-0001
STANDARD SET EQUIV.	382-8001 X

REMARKS: Bearing spacer not part of set. Purchase from dealer if damaged or worn. When used on tag or pusher axle with inner cone 6379, bearing spacer is not used.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
343-4080	330-3060

VOYAGER - FRONT AXLE 383-0136 383-0236	
BORE DIAMETER	4.840

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	39520/39581
OUTER BEARING CUP/CONE	3525/3585
BEARING GUIDE	570-0017

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212044 553X/557A
OUTER BEARING CUP/CONE	3720/3782
BEARING GUIDE	570-0018

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212049, HM212011/HM212049X, X1
OUTER BEARING CUP/CONE	3720/3782
BEARING GUIDE	570-0020

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212047
OUTER BEARING CUP/CONE	3720/3782
BEARING GUIDE	570-0019
FLEET HUB TOOL	551-5346
SPINDLE SHOULDER O.D.	3.500
WIDTH	0.932
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	308-0836
STANDARD SET EQUIV.	382-8036

REMARKS: Ford 9000# axle. Code N (FD-900), with 15x3 or 15x3-1/2 wedge brakes, use 382-8027 set. GMC only (FE-900), prior to 1960, use **310-1036** and **320-2031** sets. Be sure steering adjustment stop bolt does not interfere with ring.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4024	330-3024
340-4095	330-3009
340-4028	330-3028
340-4186	330-3028
340-4042	330-3041
340-4249	330-3122
340-4249	330-3122
340-4066	330-3041
340-4046	330-3009
340-4034	330-3034
340-4149	330-3097
343-4025	330-3025

VOYAGER - FRONT AXLE 383-0139 383-0239	
BORE DIAMETER	5.120

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	632/641
OUTER BEARING CUP/CONE	65320/65385
FLEET HUB TOOL	551-5413
BEARING GUIDE	570-0020

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/ HM212049
OUTER BEARING CUP/CONE	45220/45280
SPINDLE SHOULDER O.D.	4.000
WIDTH	0.968
INSTALL HANDLE/BODY	551-0001
STANDARD SET EQUIV.	382-8039 X

REMARKS: 383-0139 must be used with 310-1132 ring. Must be ordered as 383-8139 to receive 310-1132 ring. Replacement o-ring for 310-1132 is 355-5507.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
343-4025	330-3025
340-4031	330-3031

Must be ordered as 383-8139 to receive 310-1132 ring

Numbers with a red **X** indicate discontinued part numbers.

Very Important. These seal sets must be installed with the tools listed in this catalog.

Hub caps sold separately.

NOTE: Use 555 series Tool Heads with Universal Axle Hub body 555-0001 (installs axle/deflector rings).

NOTE: Use 551 series tools with new Universal Hub Tool Handle 551-0001 (installs 320 series Voyager® and Discover® seals).

* Not available with pipe plug.

** For hub cap with pipe plug use 343-prefix.

VOYAGER® & DISCOVER® STEER AXLE HUB SEALS

SEAL SETS: STEER AXLES

VOYAGER - FRONT AXLE 383-0153

BORE DIAMETER	5.375
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	632/641
OUTER BEARING CUP/CONE	3920/3979
BEARING GUIDE	570-0020

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	H715311/H715345
OUTER BEARING CUP/CONE	3920/3979
BEARING GUIDE	570-0021

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212049
OUTER BEARING CUP/CONE	28622/28682
BEARING GUIDE	570-0020

WIDTH	0.820
FLEET HUB TOOL	551-5419
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	308-0853
STANDARD SET EQUIV.	382-8053

REMARKS: Use Hub tool with 551-5349 with 382-8053.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4046	330-3009
340-4249	330-3122
340-4095	330-3009

VOYAGER - FRONT AXLE 383-0156

BORE DIAMETER	5.875
INNER BEARING CUP/CONE	H715311/H715345, 632/641
OUTER BEARING CUP/CONE	552A/555S, 28622/28682
BEARING GUIDE	570-0021
SPINDLE SHOULDER O.D.	4.500
WIDTH	0.988
FLEET HUB TOOL	551-5344
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	308-0856
STANDARD SET EQUIV.	382-8056 X

REMARKS: Use 308-0855 for FA109 1979 & up Spoke wheel number 454593-C2. 308-0855 must be used with hydraulic brakes after '75. FA-109 comes with hydraulic brakes.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4046	330-3009
340-4249	330-3122
340-4095	330-3009

VOYAGER - FRONT AXLE 383-0164 383-0264

BORE DIAMETER	5.903
INNER BEARING CUP/CONE	6420/6461A
OUTER BEARING CUP/CONE	552A/555S, 3979/3920
FLEET HUB TOOL	551-5327
BEARING GUIDE	570-0022
SPINDLE SHOULDER O.D.	4.375
WIDTH	1.03
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	308-0864
STANDARD SET EQUIV.	382-8064

REMARKS: Mack

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4249	330-3122
340-4046	330-3042
340-4049	330-3042
343-4249	330-3122
340-4066	330-3041
340-4095	330-3009
340-4149	330-3097
340-4098	330-3009

VOYAGER - FRONT AXLE 383-0166

BORE DIAMETER	3.875
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	JM207010/JM207049A
OUTER BEARING CUP/CONE	25820/25877
BEARING GUIDE	570-0036

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	JM205110/JM205149A
OUTER BEARING CUP/CONE	25820/25877
BEARING GUIDE	570-0033

SPINDLE SHOULDER O.D.	2.875
WIDTH	0.750
FLEET HUB TOOL	551-5423
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	308-0866
STANDARD SET EQUIV.	382-8066 X

REMARKS: Use Hub tool 551-5366 with 382-8066

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4065	330-3040

VOYAGER - FRONT AXLE 383-0171

BORE DIAMETER	5.000
INNER BEARING CUP/CONE	HM212011/HM212047
OUTER BEARING CUP/CONE	45220/45282
FLEET HUB TOOL	551-5403
BEARING GUIDE	570-0019
SPINDLE SHOULDER O.D.	3.625
WIDTH	0.820
INSTALL HANDLE/BODY	551-0001
STANDARD SET EQUIV.	382-8071 X

REMARKS: GMC F-120, F-120D axles, 1985 Up. With 5" seal bore.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4042	330-3041
340-4066	330-3041

VOYAGER - FRONT AXLE 383-0175

BORE DIAMETER	3.939
INNER BEARING CUP/CONE	JM205149
OUTER BEARING CUP/CONE	32207
TOOL HEAD	551-5417
BEARING GUIDE	570-0033
SPINDLE SHOULDER O.D.	2.359
WIDTH	0.500
INSTALL HANDLE/BODY	551-0001

REMARKS: GMC Topkick

VOYAGER - FRONT AXLE 383-0176

BORE DIAMETER	4.725
INNER BEARING CUP/CONE	33212
OUTER BEARING CUP/CONE	33208
TOOL HEAD	551-5418
BEARING GUIDE	570-0031
SPINDLE SHOULDER O.D.	2.948
WIDTH	0.5629
INSTALL HANDLE/BODY	551-0001

REMARKS: GMC Topkick

Numbers with a red X indicate discontinued part numbers.

STANDARD STEER AXLE HUB SEALS

STANDARD - STEER AXLE 382-8001 X

AXLE RING	310-1013
OIL SEAL BORE DIAMETER	320-2086 5.625

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6320/6386 or 6389
OUTER BEARING CUP/CONE	552A/557S
BEARING GUIDE	570-0020
UNIV. AXLE TOOL HEAD	555-5060

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6320/6379
OUTER BEARING CUP/CONE	552A/557S
UNIV. AXLE TOOL HEAD	555-5014

FLEET HUB TOOL	551-5311
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Discontinued. Replaced by 383-0101

RELATED PARTS	
HUB CAP W/ GASKET**	Gasket Number**
343-4080	330-3060

For Voyager® Seal No. 383-0101, 5.625" Bore, See Pg. 30

STANDARD - STEER AXLE 382-8005

AXLE RING	310-1061 X
OIL SEAL BORE DIAMETER	320-2056 X 3.671
INNER BEARING CUP/CONE	3720/3778
OUTER BEARING CUP/CONE	25820/25877, 2720/2790
UNIVERSAL AXLE TOOL HEAD	555-5001
FLEET HUB TOOL	551-5302
INSTALLATION HANDLE/BODY	555-0001 & 551-0001

REMARKS: Oil Seal 320-2056 installs in bearing cup bore.

STANDARD - STEER AXLE 382-8009

AXLE RING	310-1052 X
OIL SEAL BORE DIAMETER	320-2050 X 4.125
INNER BEARING CUP/CONE	45220/45284, 45220/45285
OUTER BEARING CUP/CONE	2720/2786, 2720/2793, 2720/2796
UNIVERSAL AXLE TOOL HEAD	555-5036
FLEET HUB TOOL	551-5347
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Axle ring must extend 1/16" over bearing cone. Oil seal 320-2050 installs in bearing cup bore.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4198	330-3119

STANDARD - STEER AXLE 382-8010

AXLE RING	310-1050 X
OIL SEAL BORE DIAMETER	320-2022 X 4.500
INNER BEARING CUP/CONE	4536/4595, 39520/39578
OUTER BEARING CUP/CONE	414A/418, 25520/25572
UNIVERSAL AXLE TOOL HEAD	NONE
FLEET HUB TOOL	551-5381
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Includes O-ring 355-5505. With 2.5" inner bearing journal, June, '71 up, use 382-8062 set.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
343-4025	330-3025

STANDARD - STEER AXLE 382-8011

AXLE RING	310-1051
OIL SEAL BORE DIAMETER	320-2031 5.000
INNER BEARING CUP/CONE	552A/559, 3920/3982
OUTER BEARING CUP/CONE	552/526, 3820/3877
UNIVERSAL AXLE TOOL HEAD	NONE
FLEET HUB TOOL	551-5388
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0019

REMARKS: Includes O-ring 355-5506.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4025	330-3025
340-4031	330-3031

STANDARD - STEER AXLE 382-8017

AXLE RING	310-1017 X
OIL SEAL BORE DIAMETER	320-2017 X 4.437
INNER BEARING CUP/CONE	39520/ 39581
OUTER BEARING CUP/CONE	26820/ 26878
UNIVERSAL AXLE TOOL HEAD	555-5062
FLEET HUB TOOL	551-5352
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0017

REMARKS: Oil Seal 320-2017 installs in bearing cup bore.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4042	330-3041
340-4066	330-3041

Numbers with a red X indicate discontinued part numbers.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

NOTE: Use 551 series tools with new Universal Hub Tool Handle 551-0001 (installs 320 series Voyager® and Discover® seals).

* Not available with pipe plug.

** For hub cap with pipe plug use 343-prefix.

STANDARD STEER AXLE HUB SEALS

STANDARD - STEER AXLE 382-8027

AXLE RING	310-1036 X
OIL SEAL BORE DIAMETER	320-2119 X 4.450
INNER BEARING CUP/CONE	39520/39581
OUTER BEARING CUP/CONE	3525/3585
UNIVERSAL AXLE TOOL HEAD	555-5062
FLEET HUB TOOL	551-5353
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0017

REMARKS: Ford 9000# axle, Code N (FD-900), with 15x3 or 15x3.5 wedge brakes. With other brakes, use **382-8036** set (4.842" seal bore).

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4024	330-3024

STANDARD - STEER AXLE 382-8028

AXLE RING	310-1028 X
OIL SEAL BORE DIAMETER	320-2028 X 6.375
INNER BEARING CUP/CONE	752/756A
OUTER BEARING CUP/CONE	HM212011/HM212046, HM212011/HM212047
UNIVERSAL AXLE TOOL HEAD	555-5067
FLEET HUB TOOL	551-5385
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Ford axle code F. 1970 and up, use **382-8045** set.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4036	330-3035
340-4046	330-3009
340-4095	330-3009
343-4092	330-3025

STANDARD - STEER AXLE 382-8032

AXLE RING	310-1032 X
OIL SEAL BORE DIAMETER	320-2032 X 5.000
INNER BEARING CUP/CONE	HM212011/HM212049
OUTER BEARING CUP/CONE	3720/3782
UNIVERSAL AXLE TOOL HEAD	NONE
FLEET HUB TOOL	551-5388
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0020

REMARKS: Includes O-ring **355-5507**.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4024	330-3024
343-4034	330-3034

STANDARD - STEER AXLE 382-8034

AXLE RING	310-1034 X
OIL SEAL BORE DIAMETER	320-2034 X 4.812
INNER BEARING CUP/CONE	HM212011/ HM212047
OUTER BEARING CUP/CONE	37820/3779, 45220/45282
UNIVERSAL AXLE TOOL HEAD	555-5066
FLEET HUB TOOL	551-5387
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0019

REMARKS: Oil seal **320-2034** installs in bearing cup bore. GMC F-120 before 1985. See **382-8071** for later models.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4042	330-3041
340-4066	330-3041

STANDARD - STEER AXLE 382-8036

AXLE RING	310-1036 X
OIL SEAL BORE DIAMETER	320-2036 X 4.840

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	39520/39581
OUTER BEARING CUP/CONE	3525/3585
UNIV. AXLE TOOL HEAD	555-5062
BEARING GUIDE	570-0017

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212044 (533X/557A PRE 1959)
OUTER BEARING CUP/CONE	3720/3782
UNIV. AXLE TOOL HEAD	555-5061
BEARING GUIDE	570-0018

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212049 HM212011/HM212049X-1
OUTER BEARING CUP/CONE	3720/3782
UNIV. AXLE TOOL HEAD	555-5098
BEARING GUIDE	570-0020

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212047
OUTER BEARING CUP/CONE	3720/3782
UNIV. AXLE TOOL HEAD	555-5066
BEARING GUIDE	570-0019

FLEET HUB TOOL	551-5346
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: 9000# axle, 15x3 or 15x3.5 wedge brakes use **382-8027** set. GMC only (FE-900), prior to 1960, use **310-1036** and **320-2031**.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4009	330-3009
340-4024	330-3024
340-4095	330-3009
340-4028	330-3028
340-4186	330-3028
340-4042	330-3041
340-4249	330-3122
340-4066	330-3041
340-4034	330-3034
340-4149	330-3097

For Guardian® Seal No. 308-0836, 4.840" Bore, See Pg. 26
For Voyager® Seal No. 383-0136, 4.840" Bore, See Pg. 30
For Discover® Seal No. 383-0236, 4.840" Bore, See Pg. 30

Numbers with a red **X** indicate discontinued part numbers.

STANDARD STEER AXLE HUB SEALS

SEAL SETS: STEER AXLES

STANDARD - STEER AXLE 382-8039 X	
AXLE RING	310-1038
OIL SEAL BORE DIAMETER	320-2039 5.125
INNER BEARING CUP/CONE	663/641, HM212011/HM212049
OUTER BEARING CUP/CONE	65320/65385, 45220/45280
UNIVERSAL AXLE TOOL HEAD	NONE
FLEET HUB TOOL	551-5395
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0029

REMARKS: Discontinued. Use **838-1039** or **383-0239** instead.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
343-4025	330-3025
340-4031	330-3031

For Voyager® Seal No. 383-0139, 5.120" Bore, See Pg. 30
For Discover® Seal No. 383-0239, 5.120" Bore, See Pg. 30

STANDARD - STEER AXLE 382-8044	
AXLE RING	310-1008
OIL SEAL BORE DIAMETER	320-2105 X 4.175
INNER BEARING CUP/CONE	45220/45284
OUTER BEARING CUP/CONE	2720/2780, 25820/25880
UNIVERSAL AXLE TOOL HEAD	555-5064
FLEET HUB TOOL	551-5351
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4065	330-3040

Numbers with a red **X** indicate discontinued part numbers.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

NOTE: Use 551 series tools with new Universal Hub Tool Handle 551-0001 (installs 320 series Voyager® and Discover® seals).

* Not available with pipe plug.

** For hub cap with pipe plug use 343-prefix.

STANDARD - STEER AXLE 382-8045	
AXLE RING	310-1028 X
OIL SEAL BORE DIAMETER	320-2041 6.437
INNER BEARING CUP/CONE	752/756A
OUTER BEARING CUP/CONE	HM212011/HM212046, HM212011/HM212047
UNIVERSAL AXLE TOOL HEAD	555-5067
FLEET HUB TOOL	551-5398
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4036	330-3035
340-4046	330-3009
340-4095	330-3009
340-4092	330-3025

STANDARD - STEER AXLE 382-8052	
AXLE RING	310-1009 X
OIL SEAL BORE DIAMETER	320-2181 5.372
INNER BEARING CUP/CONE	6320/6386A, 5735/5760
OUTER BEARING CUP/CONE	532A/537, 39520/39590
UNIVERSAL AXLE TOOL HEAD	555-5060
FLEET HUB TOOL	551-5349
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0020

REMARKS: Axle ring **310-1009** includes machined shoulder bushing **364-6414**. This shoulder bushing is reusable if not removed or damaged. Service with **382-8053** or **308-0853**.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4066	330-3041
343-4099	330-3080

STANDARD - STEER AXLE 382-8053 X	
AXLE RING	310-1093
OIL SEAL BORE DIAMETER	320-2181 5.372
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	632/641
OUTER BEARING CUP/CONE	3920/3979
UNIV. AXLE TOOL HEAD	555-5060
BEARING GUIDE	570-0020
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	H715311/H715345
OUTER BEARING CUP/CONE	3920/3979
UNIV. AXLE TOOL HEAD	555-5070
BEARING GUIDE	570-0021

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM212011/HM212049
OUTER BEARING CUP/CONE	28622/28682
UNIV. AXLE TOOL HEAD	555-5060
BEARING GUIDE	570-0020

FLEET HUB TOOL	551-5349
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Discontinued. Replace with **308-0853** or **383-0153**.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4046	330-3009
340-4249	330-3122
340-4095	330-3009

For Guardian® Seal No. 308-0853, 5.372" Bore, See Pg. 26
For Voyager® Seal No. 383-0153, 5.375" Bore, See Pg. 30

STANDARD - STEER AXLE 382-8056 X	
AXLE RING	310-1093
OIL SEAL BORE DIAMETER	320-2199 5.875
INNER BEARING CUP/CONE	H715311/H715345, 632/641
OUTER BEARING CUP/CONE	552A/555S, 28622/28682
UNIV. AXLE TOOL HEAD	555-5070
FLEET HUB TOOL	551-5344
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0021

REMARKS: Discontinued. Replace with **308-0856** or **383-0156**.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4046	330-3009
340-4249	330-3122
340-4095	330-3009

For Guardian® Seal No. 308-0856, See Pg. 26
For Voyager® Seal No. 383-0156, See Pg. 30

STANDARD STEER AXLE HUB SEALS

STANDARD - STEER AXLE 382-8060

AXLE RING	310-1041
OIL SEAL BORE DIAMETER	320-2023 6.008
INNER BEARING CUP/CONE	5735/5760, 6420/6461
OUTER BEARING CUP/CONE	45220/45287, 612/621
UNIVERSAL AXLE TOOL HEAD	NONE
FLEET HUB TOOL	551-5401
INSTALL HANDLE/ BODY	555-0001 & 551-0001
BEARING GUIDE	570-0022

REMARKS: Includes O-ring 355-5510.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
343-4025	330-3025

STANDARD - STEER AXLE 382-8062

AXLE RING	310-1051
OIL SEAL BORE DIAMETER	320-2125 X 4.437
INNER BEARING CUP/CONE	39520/39585
OUTER BEARING CUP/CONE	22520/25572
UNIVERSAL AXLE TOOL HEAD	NONE
FLEET HUB TOOL	551-5388
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0019

REMARKS: Includes O-ring 355-5506. Oil seal 320-2125 installs in bearing cup bore. Prior to June 1971, use 382-8010 set.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
343-4025	330-3025

STANDARD - STEER AXLE 382-8063

AXLE RING	310-1036 X
OIL SEAL BORE DIAMETER	320-2133 4.542

BEARINGS AND TOOL COMBINATION:	
REMARKS:	FORD 9000# 1975-84
INNER BEARING CUP/CONE	39520/39581
OUTER BEARING CUP/CONE	3525/3585
UNIV. AXLE TOOL HEAD	555-5062
BEARING GUIDE	570-0017

BEARINGS AND TOOL COMBINATION:	
REMARKS:	FORD 9000# 1984 UP
INNER BEARING CUP/CONE	45220/45284
OUTER BEARING CUP/CONE	25820/25880
UNIV. AXLE TOOL HEAD	555-5064
BEARING GUIDE	N/A

FLEET HUB TOOL	551-5353
INSTALL HANDLE/BODY	555-0001 & 551-0001

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4186	330-3120

For Guardian® Seal No. 308-0863, See Pg. 26

STANDARD - STEER AXLE 382-8064

AXLE RING	310-1037 X
OIL SEAL BORE DIAMETER	320-2137 X 5.903
INNER BEARING CUP/CONE	6420/6461A
OUTER BEARING CUP/CONE	552A/555S, 3979/3920
UNIV. AXLE TOOL HEAD	555-5007
FLEET HUB TOOL	551-5327
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0022

REMARKS: Mack

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4249	330-3122
340-4046	330-3009
340-4049	330-3042
343-4249	330-3122
340-4066	330-3041
340-4095	330-3009
340-4149	330-3097
340-4098	330-3009

For Guardian® Seal No. 308-0864, 5.903" Bore, See Pg. 26
For Voyager® Seal No. 383-0164, 5.903" Bore, See Pg. 30
For Discover® Seal No. 383-0264, 5.903" Bore, See Pg. 30

STANDARD - STEER AXLE 382-8066

AXLE RING	310-1008
OIL SEAL BORE DIAMETER	320-2164 3.875

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	JM207010/JM207049A
OUTER BEARING CUP/CONE	25820/25877
UNIV. AXLE TOOL HEAD	555-5088
FLEET HUB TOOL	551-5366
BEARING GUIDE	570-0036

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	JM207010/JM205049A
OUTER BEARING CUP/CONE	25820/25877
UNIV. AXLE TOOL HEAD	555-5089
BEARING GUIDE	570-0033

INSTALL HANDLE/BODY	555-0001 & 551-0001
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REMARKS: N/A

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4065	330-3040

For Guardian® Seal No. 308-0866, 3.875" Bore, See Pg. 26
For Voyager® Seal No. 383-0166, See Pg. 30

STANDARD - STEER AXLE 382-8071 X

AXLE RING	310-1034 X
OIL SEAL BORE DIAMETER	320-2216 X 5.000
INNER BEARING CUP/CONE	HM212011/HM212047
OUTER BEARING CUP/CONE	45220/45282
UNIVERSAL AXLE TOOL HEAD	555-5066
FLEET HUB TOOL	551-5403
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0019

REMARKS: Discontinued. Replace with 383-0171.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
340-4042	330-3041
340-4066	330-3041

For Voyager® Seal No. 383-0171, 5.000" Bore, See Pg. 26

Numbers with a red X indicate discontinued part numbers.

GUARDIAN® & GUARDIAN® HP DRIVE AXLE HUB SEALS

SEAL SETS: DRIVE AXLES

GUARDIAN HP - DRIVE AXLE 309-0903	
BORE DIAMETER	5.750
INNER BEARING CUP/CONE	572/580, 572/582
OUTER BEARING CUP/CONE	563/567
SPINDLE SHOULDER O.D.	4.5
WIDTH	0.516
UNIVERSAL AXLE TOOL HEAD	555-5072
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9094
VOYAGER® EQUIV.	393-0103
DISCOVER® EQUIV.	393-0203

REMARKS: Mack Western 11QJA-191, -192 hub and drum assembly, or Motor Wheel 87125 hub or 87119-B or 87226-F hub and drum assembly with 582 inner cone must use OEM bearing spacer 35AX-1411.

Install OEM spacer before installing axle ring. Press axle on until flush with bearing side of bearing spacer.

GUARDIAN - DRIVE AXLE 309-0904	
BORE DIAMETER	6.250

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	652/663 HM516410/HM516449-C
OUTER BEARING CUP/CONE	572/575 47620/47679
UNIV. AXLE TOOL HEAD	555-5072
GRIT GUARD® EQUIV.	392-9112

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	HM516410/HM516449A
OUTER BEARING CUP/CONE	47620/47679
UNIV. AXLE TOOL HEAD	555-5073
GRIT GUARD® EQUIV.	392-9130

SPINDLE SHOULDER O.D.	4.25
WIDTH	0.548
INSTALL HANDLE/BODY	555-0001
VOYAGER® EQUIV.	393-0104
DISCOVER® EQUIV.	393-0204

REMARKS: Use OEM bearing spacer 35AX790 or 35AX1411. Use Grit Guard set 392-9130 with inner bearing HM516449A. Use 309-0904 only with ABS Brakes. Ref.: Tech Tip 15.

Very Important. These seal sets must be installed with the tools listed in this catalog.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

GUARDIAN - DRIVE AXLE 309-0912	
BORE DIAMETER	5.690
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47685 47620/47686
OUTER BEARING CUP/CONE	39520/39590
UNIV. AXLE TOOL HEAD	555-5031

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47678 5735/5760
OUTER BEARING CUP/CONE	39520/39590 572/575
UNIV. AXLE TOOL HEAD	555-5074

SPINDLE SHOULDER O.D.	3.875
WIDTH	0.555
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9099
VOYAGER® EQUIV.	393-0112
DISCOVER® EQUIV.	393-0212

REMARKS: Do not use OEM oil seal spacer ring. Use with 5.687" bore only. Will not replace 320-2102 on GMC-Chev.

For GMC/Chev. with 5.500" bore, use 309-0915. For Navistar w/ 39585 outer cone, use 392-9099.

GUARDIAN - DRIVE AXLE 309-0915	
BORE DIAMETER	5.500
INNER BEARING CUP/CONE	47620/47686
OUTER BEARING CUP/CONE	39520/39590
SPINDLE SHOULDER O.D.	3.875
WIDTH	0.736
UNIV. AXLE TOOL HEAD	555-5031
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9099
VOYAGER® EQUIV.	393-0115

REMARKS: Do not use OEM oil seal spacer ring. Use with 5.500" bore only. GMC.

GUARDIAN - DRIVE AXLE 309-0935	
BORE DIAMETER	4.750

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33462/33287 1962 UP
OUTER BEARING CUP/CONE	3920/3982
UNIV. AXLE TOOL HEAD	555-5011

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33462/33281 thru 1961
OUTER BEARING CUP/CONE	3929/3982
UNIV. AXLE TOOL HEAD	555-5002

SPINDLE SHOULDER O.D.	3.437
WIDTH	0.541
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9035

GUARDIAN - DRIVE AXLE 309-0948	
BORE DIAMETER	7.3750 Only

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	672/687
OUTER BEARING CUP/CONE	772/780 52618/52400

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	772/780
OUTER BEARING CUP/CONE	772/776 77675/77375 854/864

SPINDLE SHOULDER O.D.	5.250
WIDTH	0.7350
UNIV. AXLE TOOL HEAD	555-5004
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9089
VOYAGER® EQUIV.	393-0148

REMARKS: 309-0048 and 392-9089 will not fit S582 or S652 after June, 1998.

Only use 393-0148 on these axles after June, 1998.

GUARDIAN - DRIVE AXLE 309-0957	
BORE DIAMETER	5.500

BEARINGS AND TOOL COMBINATION:	
REMARKS	Ford 1970 Up. Thru 1969 use 392-9018.
INNER BEARING CUP/CONE	493/495AX
OUTER BEARING CUP/CONE	39520/39590
UNIV. AXLE TOOL HEAD	555-5074

BEARINGS AND TOOL COMBINATION:	
REMARKS	GMC 1982 Up. Thru 1981 use 392-9018.
INNER BEARING CUP/CONE	33462/33287
OUTER BEARING CUP/CONE	3920/3982
UNIV. AXLE TOOL HEAD	555-5011

SPINDLE SHOULDER O.D.	3.937
WIDTH	0.745
INSTALL HANDLE/BODY	555-0001

GUARDIAN® & GUARDIAN® HP DRIVE AXLE HUB SEALS

SEAL SETS: DRIVE AXLES

GUARDIAN - DRIVE AXLE 309-0960

BORE DIAMETER	6.251
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BEARINGS AND TOOL COMBINATION:

REMARKS	GMC - Some Alum. hubs use 309-0973 seal.
INNER BEARING CUP/CONE	592A/598A
OUTER BEARING CUP/CONE	572/580, 572/582
TOOL HEAD	555-5071
GRIT GUARD® EQUIV.	392-9132

BEARINGS AND TOOL COMBINATION:

REMARKS	GMC - Some Alum. hubs use 309-0973 seal.
INNER BEARING CUP/CONE	592A/594A
OUTER BEARING CUP/CONE	572/580, 572/582
UNIV. AXLE TOOL HEAD	555-5076
GRIT GUARD® EQUIV.	392-9132

BEARINGS AND TOOL COMBINATION:

REMARKS	Mock application
INNER BEARING CUP/CONE	592A/598A
OUTER BEARING CUP/CONE	HM617010/HM617049
UNIV. AXLE TOOL HEAD	555-5071
GRIT GUARD® EQUIV.	392-9081 (Standard)

SPINDLE SHOULDER O.D.	4.767
WIDTH	0.668
INSTALL HANDLE/BODY	555-0001

GUARDIAN HP - DRIVE AXLE 309-0961

BORE DIAMETER	6.064
INNER BEARING CUP/CONE	572/580 572/582 653/663A
OUTER BEARING CUP/CONE	47620/42687 47620/42688
SPINDLE SHOULDER O.D.	4.262
WIDTH	0.562
UNIV. AXLE TOOL HEAD	555-5072
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9095

REMARKS: None

GUARDIAN HP - DRIVE AXLE 309-0964

BORE DIAMETER	6.250
INNER BEARING CUP/CONE	592A/594 592A/594A
OUTER BEARING CUP/CONE	572/580
SPINDLE SHOULDER O.D.	4.500
WIDTH	0.600
UNIV. AXLE TOOL HEAD	555-5076
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9088

REMARKS: None

GUARDIAN HP - DRIVE AXLE 309-0965

BORE DIAMETER	6.250
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BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/595
OUTER BEARING CUP/CONE	572/580
TOOL HEAD	555-5072
GRIT GUARD® EQUIV.	392-9096

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/598
OUTER BEARING CUP/CONE	572/575
UNIV. AXLE TOOL HEAD	555-5071
GRIT GUARD® EQUIV.	392-9096

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/598
OUTER BEARING CUP/CONE	752/758, 653/665 HM617010/HM617049
UNIV. AXLE TOOL HEAD	555-5071
GRIT GUARD® EQUIV.	392-9092

SPINDLE SHOULDER O.D.	4.375
WIDTH	0.600
INSTALL HANDLE/BODY	555-0001

REMARKS: On Eaton 42D, replace OEM bearing spacer with **357-5706** if damaged.

DIMENSIONS: OD 4.375, ID 4.150, width .688

GUARDIAN - DRIVE AXLE 309-0970

BORE DIAMETER	7.000
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BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	672/681A
OUTER BEARING CUP/CONE	572/575, 572/580
UNIV. AXLE TOOL HEAD	555-5071
GRIT GUARD® EQUIV.	392-9087

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	672/683 672/683XA
OUTER BEARING CUP/CONE	572/580
UNIV. AXLE TOOL HEAD	555-5076

SPINDLE SHOULDER O.D.	4.767
WIDTH	1.175
INSTALL HANDLE/BODY	555-0001

REMARKS: Some axles may require bushings.

Shoulders with 4.375" diameter use **364-6402** bushing. Shoulders with 4.5" diameter use **364-6435** bushing. If axle has factory installed shoulder bushing, leave it in place and reuse if not damaged.

GUARDIAN HP - DRIVE AXLE 309-0973

BORE DIAMETER	6.310
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BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/598A
OUTER BEARING CUP/CONE	572/580
TOOL HEAD	555-5071

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/598
OUTER BEARING CUP/CONE	572/575
UNIV. AXLE TOOL HEAD	555-5071

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/594
OUTER BEARING CUP/CONE	572/580
UNIV. AXLE TOOL HEAD	555-5076

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/594A
OUTER BEARING CUP/CONE	572/580
UNIV. AXLE TOOL HEAD	555-5076

SPINDLE SHOULDER O.D.	4.767
WIDTH	0.91
INSTALL HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9131
VOYAGER® EQUIV.	393-0173
DISCOVER® EQUIV.	393-0273

REMARKS: Will not work on Freightliner with Wagner Anti-Skid or Motorola 22-14670-14 Electronic Speedometers. Use **320-2106** and **310-1111**.

Special note for Dodge, Freightliner, Kenworth and Peterbilt using this set on Eaton axles w/ Meritor hubs or wheels: Eaton 18 series single or 38D tandem with 4.375 spindle shoulder require shoulder bushing 364-6402 to be installed before axle ring. Eaton 19 series single or 44D tandem with 4.500 spindle shoulder require shoulder bushing **364-6435** to be installed before axle ring. Shoulder bushings and axle rings must be installed flush with spindle shoulder face. Shoulder bushings are not part of set and must be ordered separately. If axle has factory installed shoulder bushing, leave it in place and reuse if not damaged. Shoulder bushings are not required on Eaton axles if shoulder is already machined to 4.767. For wheel ends using 681A to 4.767. X bearing refer to **392-9087** set. Hub cap **340-4119** and gasket **330-3090** available for tag and pusher use. **364-6402** OD 4.776, ID 4.369, Width .980 **364-6435** OD 4.767, ID 4.500, Width .950.

VOYAGER® & DISCOVER® DRIVE AXLE HUB SEALS

SEAL SETS: DRIVE AXLES

VOYAGER & DISCOVER - DRIVE AXLE	
393-0103 393-0203	
BORE DIAMETER	5.750
INNER BEARING CUP/CONE	572/580, 572/582
OUTER BEARING CUP/CONE	563/567
SPINDLE SHOULDER O.D.	4.500
WIDTH	1.003
FLEET HUB TOOL	551-5415
INSTALL HANDLE/BODY	551-0001
BEARING GUIDE	570-0023
GUARDIAN® EQUIV.	309-0903
GRIT GUARD® EQUIV.	392-9094

REMARKS: Mack Western 11QJA-191, -192 hub and drum assembly or motor wheel 87125 hub or 87119-B or 87226-F hub and drum assembly with 582 inner cone must use OEM bearing spacer 35AX-1411.

RELATED PARTS	
DISCOVER® WHEEL SEAL	393-0203

VOYAGER & DISCOVER - DRIVE AXLE	
393-0104 393-0204	
BORE DIAMETER	6.250
INNER BEARING CUP/CONE	652/663, HM516410/HM516449-C
OUTER BEARING CUP/CONE	572/575, 47620/47679
SPINDLE SHOULDER O.D.	4.250
WIDTH	1.290
FLEET HUB TOOL	551-5414
INSTALL HANDLE/BODY	551-0001
BEARING GUIDE	570-0023
GUARDIAN® EQUIV.	309-0904
GRIT GUARD® EQUIV.	392-9112

REMARKS: Mack application, use OEM bearing spacer, #35AX790 or 35AX1411. **NOTE:** For cast axle housing only. With HM516449A see 392-9130 set.

RELATED PARTS	
DISCOVER® WHEEL SEAL	393-0204

VOYAGER & DISCOVER - DRIVE AXLE	
393-0112 393-0212	
BORE DIAMETER	5.690
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47685
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47686 47620/47678 5735/5760
OUTER BEARING CUP/CONE	39520/39590 39520/39585 572/575
BEARING GUIDE	570-0023 570-0022

SPINDLE SHOULDER O.D.	3.875
WIDTH	0.820
FLEET HUB TOOL	551-5416
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	309-0912
GRIT GUARD® EQUIV.	392-9099

REMARKS: Not for use with 5.500" bores. See 309-0915.

RELATED PARTS	
DISCOVER® WHEEL SEAL	393-0212

VOYAGER - DRIVE AXLE	
393-0115	
BORE DIAMETER	5.500
INNER BEARING CUP/CONE	47620/47686
OUTER BEARING CUP/CONE	39520/39590
SPINDLE SHOULDER O.D.	3.875
WIDTH	0.705
FLEET HUB TOOL	551-5424
INSTALL HANDLE/BODY	551-0001
BEARING GUIDE	570-0023
GUARDIAN® EQUIV.	309-0915
GRIT GUARD® EQUIV.	392-9099

REMARKS: Do not use OEM oil seal spacer ring. Use with 5.5" bore only. GMC. Use Hub tool 557-5518 with 392-9099.

VOYAGER® & DISCOVER® DRIVE AXLE HUB SEALS

SEAL SETS: DRIVE AXLES

VOYAGER - DRIVE AXLE 393-0134	
BORE DIAMETER	6.000
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6535/6580
OUTER BEARING CUP/CONE	653/663
BEARING GUIDE	570-0025
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6535/6559
OUTER BEARING CUP/CONE	653/663
BEARING GUIDE	570-0023
SPINDLE SHOULDER O.D.	4.875
WIDTH	0.790
FLEET HUB TOOL	551-5421
INSTALL HANDLE/BODY	551-0001
GRIT GUARD® EQUIV.	392-9034

REMARKS: None

VOYAGER - DRIVE AXLE 393-0148	
BORE DIAMETER	7.375
INNER BEARING CUP/CONE	672/687, 772/780
OUTER BEARING CUP/CONE	772/780, 52618/52400, 772/776, 776575/77375, 854/864
SPINDLE SHOULDER O.D.	5.250
WIDTH	1.000
FLEET HUB TOOL	551-5400
INSTALL HANDLE/BODY	551-0001
BEARING GUIDE	570-0032
GUARDIAN® EQUIV.	309-0948
GRIT GUARD® EQUIV.	392-9089

REMARKS: None

VOYAGER & DISCOVER - DRIVE AXLE 393-0173 393-0273	
BORE DIAMETER	6.310
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	592A/598A
OUTER BEARING CUP/CONE	572/580
BEARING GUIDE	570-0027
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	592A/598
OUTER BEARING CUP/CONE	572/575
BEARING GUIDE	570-0027
BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	592A/594
OUTER BEARING CUP/CONE	572/580
BEARING GUIDE	570-0028

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	592A/594A
OUTER BEARING CUP/CONE	572/580
BEARING GUIDE	570-0028
SPINDLE SHOULDER O.D.	
SPINDLE SHOULDER O.D.	4.767
WIDTH	
WIDTH	1.1270
FLEET HUB TOOL	
FLEET HUB TOOL	551-5320
INSTALL HANDLE/BODY	
INSTALL HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	
GUARDIAN® EQUIV.	309-0973
GRIT GUARD® EQUIV.	
GRIT GUARD® EQUIV.	392-9131

REMARKS: For Dodge, Freightliner, Kenworth and Peterbilt using this set on Eaton axles with Meritor hubs or wheels:

Eaton 18 series single or 380 tandem with 4.375 spindle shoulder require shoulder bushing **364-6402** to be installed before axle ring.

Eaton 19 series single or 440 tandem with 4.500 spindle shoulder require shoulder bushing **364-6435** to be installed before axle ring.

Shoulder bushings and axle rings must be installed flush with spindle shoulder face.

Shoulder bushings are not part of set and must be ordered separately. If axle has factory installed shoulder bushing, leave it in place and reuse if not damaged.

Shoulder bushings are not required on Eaton axles if shoulder is already machined to 4.767.

For wheel ends using 681A inner bearing refer, to **392-9087** set.

Hub cap **340-4119** and gasket 330-3090 available for tag and pusher use.*

364-6402 – OD 4.776, ID 4.369, Width .980

364-6435 – OD 4.767, ID 4.500, Width .950.

RELATED PARTS	
DISCOVER® WHEEL SEAL	393-0273

Very Important. These seal sets must be installed with the tools listed in this catalog.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

STANDARD DRIVE AXLE HUB SEALS

SEAL SETS: DRIVE AXLES

STANDARD - DRIVE AXLE 392-9001

AXLE RING	310-1095
OIL SEAL BORE DIAMETER	320-2001 6.500

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	752/758
OUTER BEARING CUP/CONE	663/665
UNIV. AXLE TOOL HEAD	555-5069
BEARING GUIDE	570-0024

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	752/760
OUTER BEARING CUP/CONE	742/749
UNIV. AXLE TOOL HEAD	555-5079
BEARING GUIDE	570-0026

SPINDLE SHOULDER O.D.	4.875
WIDTH	0.790
FLEET HUB TOOL	551-5398
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: None

STANDARD - DRIVE AXLE 392-9007

AXLE RING	310-1007 X
OIL SEAL BORE DIAMETER	320-2096 X 6.250
INNER BEARING CUP/CONE	652/663, HM516410/HM516449
OUTER BEARING CUP/CONE	572/575, 47620/47679
UNIVERSAL AXLE TOOL HEAD	555-5072
FLEET HUB TOOL	551-5390
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0023

REMARKS: For steel axle housing only. Cast housings use **310-1088** and **320-2213**.

RELATED PARTS	
GRIT GUARD® HUB SEAL	310-1007 X

STANDARD - DRIVE AXLE 392-9012 X

AXLE RING	310-1012 X
OIL SEAL BORE DIAMETER	320-2012 X 5.690

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47686
OUTER BEARING CUP/CONE	39520/39590
UNIV. AXLE TOOL HEAD	555-5031
BEARING GUIDE	570-0023

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47678 5735/5760
OUTER BEARING CUP/CONE	39520/39585 572/575
UNIV. AXLE TOOL HEAD	555-5074
BEARING GUIDE	570-0022

FLEET HUB TOOL	551-5405
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Discontinued. Replaced by **309-9012** and Voyager **393-0112**.

RELATED PARTS	
GUARDIAN® HP WHEEL SEAL	309-0912
VOYAGER® WHEEL SEAL	393-0112

For Guardian® Seal No. 309-0912, 5.690" Bore, See Pg. 26
For Voyager® Seal No. 393-0112, 5.690" Bore, See Pg. 30

STANDARD - DRIVE AXLE 392-9018

AXLE RING	310-1018
OIL SEAL BORE DIAMETER	320-2029 X 5.375
INNER BEARING CUP/CONE	493/495AX
OUTER BEARING CUP/CONE	3920/3984
UNIVERSAL AXLE TOOL HEAD	555-5074
FLEET HUB TOOL	551-5386
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0022

REMARKS: This seal set used on Ford applications thru 1969 and GMC/Chev thru 1981. Ford 1970 & up and GMC 1982 & up use **392-9057**.

STANDARD - DRIVE AXLE 392-9032

AXLE RING	310-1053
OIL SEAL BORE DIAMETER	320-2109 5.750

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	572/580
OUTER BEARING CUP/CONE	563/567
UNIV. AXLE TOOL HEAD	555-5072
BEARING GUIDE	570-0023

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	572/575
OUTER BEARING CUP/CONE	572/575
UNIV. AXLE TOOL HEAD	555-5074
BEARING GUIDE	570-0022

FLEET HUB TOOL	551-5313
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: None

RELATED PARTS	
GRIT GUARD® HUB SEAL	320-2109
GRIT GUARD® HUB SEAL	310-1053

STANDARD - DRIVE AXLE 392-9033

AXLE RING	310-1093
OIL SEAL BORE DIAMETER	320-2058 X 5.500

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	742/749A
OUTER BEARING CUP/CONE	653/663
UNIV. AXLE TOOL HEAD	555-5072
BEARING GUIDE	570-0023

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6535/6559
FLEET HUB TOOL	551-5303
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Gaskets **330-3067**, **330-3065**, **330-3071**, order retainer separately. Match correct gasket to retainer. Axle ring **310-1093** installs over OEM bearing spacer flush with the bearing side. Do not use OEM seal spacer with STEMCO oil seal.

RELATED PARTS	
GRIT GUARD® HUB SEAL	310-1093

Numbers with a red X indicate discontinued part numbers.

STANDARD DRIVE AXLE HUB SEALS

STANDARD - DRIVE AXLE 392-9034 X

AXLE RING	310-1066
OIL SEAL BORE DIAMETER	320-2061 6.003

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6535/6580
OUTER BEARING CUP/CONE	653/663
UNIV. AXLE TOOL HEAD	555-5023
BEARING GUIDE	570-0025

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	6535/6559
OUTER BEARING CUP/CONE	653/663
UNIV. AXLE TOOL HEAD	555-5072
BEARING GUIDE	570-0023

FLEET HUB TOOL	551-5356
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Discontinued. Replaced by 329-9034.

RELATED PARTS	
VOYAGER® WHEEL SEAL	393-0134

For Voyager® Seal No. 393-0134, See Pg. 30

STANDARD - DRIVE AXLE 392-9035

AXLE RING	310-1062 X
OIL SEAL BORE DIAMETER	320-2057 X 4.625

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33462/33281 (thru 1961)
OUTER BEARING CUP/CONE	3920/3982
UNIV. AXLE TOOL HEAD	555-5002

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33462/33287 (1962 and up)
OUTER BEARING CUP/CONE	3920/3982
UNIV. AXLE TOOL HEAD	555-5011

FLEET HUB TOOL	551-5353
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Oil Seal 320-2057 installs in bearing cup bore.
The 309-0935 fits in the seal bore (4.750).

RELATED PARTS	
GUARDIAN® HP WHEEL SEAL	309-0935
GRIT GUARD® HUB SEAL	310-1062 X

For Guardian® Seal No. 309-0935, 4.750" Bore, See Pg. 30

STANDARD - DRIVE AXLE 392-9036

AXLE RING	310-1063 X
OIL SEAL BORE DIAMETER	320-2057 X 4.625

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33462/33281
OUTER BEARING CUP/CONE	39520/39585
UNIV. AXLE TOOL HEAD	555-5002

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33462/33287
UNIV. AXLE TOOL HEAD	555-5011

FLEET HUB TOOL	551-5353
BEARING GUIDE	570-0021
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Oil Seal 320-2057 installs in bearing cup bore.

RELATED PARTS	
GRIT GUARD® HUB SEAL	310-1063

STANDARD - DRIVE AXLE 392-9038

AXLE RING	310-1064 X
OIL SEAL BORE DIAMETER	320-2072 X 4.437
INNER BEARING CUP/CONE	3920/3984
OUTER BEARING CUP/CONE	453X/462
UNIVERSAL AXLE TOOL HEAD	555-5097
FLEET HUB TOOL	551-5308
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0020

REMARKS: Oil Seal 320-2072 installs into bearing cup bore.

RELATED PARTS	
GRIT GUARD® HUB SEAL	310-1064 X

Numbers with a red X indicate discontinued part numbers.

Very Important. These seal sets must be installed with the tools listed in this catalog.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

STANDARD - DRIVE AXLE 392-9045

AXLE RING	See Remarks
OIL SEAL BORE DIAMETER	320-2091 X 5.500

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33472/33287
OUTER BEARING CUP/CONE	3925/3982
UNIV. AXLE TOOL HEAD	555-5011
BEARING GUIDE	N/A

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33472/33281
OUTER BEARING CUP/CONE	3925/3984
UNIV. AXLE TOOL HEAD	555-5002
BEARING GUIDE	N/A

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	493/495AX
OUTER BEARING CUP/CONE	39520/39590
UNIV. AXLE TOOL HEAD	555-5074
BEARING GUIDE	570-0022

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47686
OUTER BEARING CUP/CONE	39520/39590
UNIV. AXLE TOOL HEAD	555-5031
BEARING GUIDE	570-0023
FLEET HUB TOOL	551-5312
BEARING GUIDE	570-0021
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Check type of OEM axle ring used. Stepped type OEM ring No. 3874372 must be replaced with the same OEM number.

Flat type axle ring No. 3880944 can be replaced with either the OEM ring or STEMCO part No. 310-1117.

*Axle Ring must be ordered separately. It is not part of set No. 392-9045.

Oil seal 320-2091 seals on OEM spacer sleeve, GMC or Chev. No. 3874372. Replace if worn. Obtain from GMC-Chev. dealer. 1966 15000 uses 33287 & 3982 cones. 1967 up uses 33281 & 3984 cones.

RELATED PARTS	
GRIT GUARD® HUB SEAL	310-1063

STANDARD DRIVE AXLE HUB SEALS

STANDARD - DRIVE AXLE 392-9053

AXLE RING	310-1089
OIL SEAL BORE DIAMETER	320-2099 7.250
INNER BEARING CUP/CONE	772/782
OUTER BEARING CUP/CONE	742/749
UNIVERSAL AXLE TOOL HEAD	555-5016
FLEET HUB TOOL	551-5317
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Replace worn seal with **320-2059** (component of **320-2099**). Press oil seal into retainer so leather lip points toward oil side. Do not hammer on seal. National AR-23 ring must be removed.

RELATED PARTS	
GRIT GUARD® HUB SEAL	310-1089
GRIT GUARD® HUB SEAL	320-2099

STANDARD - DRIVE AXLE 392-9057

AXLE RING	310-1018
OIL SEAL BORE DIAMETER	320-2104 5.500

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	33462/33287
OUTER BEARING CUP/CONE	3920/3982
UNIV. AXLE TOOL HEAD	555-5011

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	493/495AX
OUTER BEARING CUP/CONE	39520/39590
UNIV. AXLE TOOL HEAD	555-5074

FLEET HUB TOOL	551-5383
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: This seal set used on Ford 1970 & up and GMC 1982 & up. Ford prior to 1970 & GMC prior to 1982 use **392-9018**.

RELATED PARTS	
GUARDIAN® HP HUB SEAL	309-0957

For Guardian® Seal No. 309-0957, See Pg. 30

STANDARD - DRIVE AXLE 392-9062

AXLE RING	310-1103
OIL SEAL BORE DIAMETER	320-2001 6.500
BORE DIAMETER	6.500
INNER BEARING CUP/CONE	752/760
OUTER BEARING CUP/CONE	742/749
UNIVERSAL AXLE TOOL HEAD	555-5079
FLEET HUB TOOL	551-5398
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0026

REMARKS: None

RELATED PARTS	
GRIT GUARD® HUB SEAL	310-1089
GRIT GUARD® HUB SEAL	320-2099

STANDARD - DRIVE AXLE 392-9063

AXLE RING	310-1104 X
OIL SEAL BORE DIAMETER	320-2077 3.937

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	127627/188931
OUTER BEARING CUP/CONE	149521/188933
UNIV. AXLE TOOL HEAD	555-5054

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	382A/387AS 7451691/7451929
OUTER BEARING CUP/CONE	LM104911/LM104949 7451813/7451814
UNIV. AXLE TOOL HEAD	555-5062

FLEET HUB TOOL	551-5362
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0017

REMARKS: None

STANDARD - DRIVE AXLE 392-9066

AXLE RING	310-1107
OIL SEAL BORE DIAMETER	320-2115 6.000
INNER BEARING CUP/CONE	592A/594A
UNIVERSAL AXLE TOOL HEAD	555-5076
FLEET HUB TOOL	551-5356
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0028

REMARKS: Van Hool Bus application.

STANDARD - DRIVE AXLE 392-9081

AXLE RING	310-1079
OIL SEAL BORE DIAMETER	320-2009 6.251
INNER BEARING CUP/CONE	592A/598A
OUTER BEARING CUP/CONE	HM617010/HM617049
UNIVERSAL AXLE TOOL HEAD	555-5071
FLEET HUB TOOL	551-5356
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0027

REMARKS: Mack Only

RELATED PARTS	
GUARDIAN® HP HUB SEAL	309-0960

For Guardian® Seal No. 309-0960, 6.251" Bore, See Pg. 30

STANDARD - DRIVE AXLE 392-9111

AXLE RING	310-1233 X
OIL SEAL BORE DIAMETER	320-2233 X 5.906
INNER BEARING CUP/CONE	593X/594
OUTER BEARING CUP/CONE	593X/594
UNIVERSAL AXLE TOOL HEAD	555-5076
FLEET HUB TOOL	551-5404
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0028

REMARKS: Mack Midliner. Mack slinger ring models 1987 & earlier.

Numbers with a red **X** indicate discontinued part numbers.

GRIT GUARD® DRIVE AXLE HUB SEALS

SEAL SETS: DRIVE AXLES

GRIT GUARD - DRIVE AXLE 392-9087

AXLE RING	315-1502
OIL SEAL BORE DIAMETER	320-2162 7.000

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	672-681A
OUTER BEARING CUP/CONE	572/575, 572/580
UNIV. AXLE TOOL HEAD	555-5071
BEARING GUIDE	570-0027

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	672/682, 672/683XA
OUTER BEARING CUP/CONE	572/580
UNIV. AXLE TOOL HEAD	555-5076
BEARING GUIDE	570-0028

FLEET HUB TOOL	551-5333
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Special note for all Meritor R-143 & White Western Star 44D prior to Sept. 1973. These axles have 4.500 spindle shoulder diameter and require shoulder bushings **364-6435** to be installed before axle ring. Shoulder bushing and axle rings must be installed flush with spindle shoulder face. Shoulder bushings are not part of set and must be ordered separately. If axle has factory installed shoulder bushing, leave it in place & reuse if not damaged.

RELATED PARTS	
GUARDIAN® HP HUB SEAL	309-0970

For Guardian® Seal No. 309-0970, 7.000" Bore, See Pg. 30

GRIT GUARD - DRIVE AXLE 392-9088

AXLE RING	315-1517 X
OIL SEAL BORE DIAMETER	320-2113 6.000
INNER BEARING CUP/CONE	592A/594 592A/594A
OUTER BEARING CUP/CONE	572/580
UNIVERSAL AXLE TOOL HEAD	555-5076
FLEET HUB TOOL	551-5412
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0028

REMARKS: Oil seal **320-2113** installs in bearing cup bore.

RELATED PARTS	
GUARDIAN® HP WHEEL SEAL	309-0964

For Guardian® Seal No. 309-0964, 6.250" Bore, See Pg. 30

Numbers with a red **X** indicate discontinued part numbers.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

NOTE: Use 551 series tools with new Universal Hub Tool Handle 551-0001 (installs 320 series Voyager® and Discover® seals).

GRIT GUARD - DRIVE AXLE 392-9089

AXLE RING	315-1516
OIL SEAL BORE DIAMETER	320-2097 7.375

INNER BEARING CUP/CONE	372/687, 772/780
OUTER BEARING CUP/CONE	772/780, 52618/52400, 772/776, 77675/77375, 524/864
UNIVERSAL AXLE TOOL HEAD	555-5004
FLEET HUB TOOL	551-5400
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0032

REMARKS: Use OEM bearing spacer #37AX335. **320-2059** is a component of **320-2097**. Must replace with the **320-2097** seal. **392-9089** and **309-0948** will not fit S582 or S652 after June 1998. Only use **393-0148** on these axles after June 1998. Won't fit 58,000 Mack 2000/2001.

RELATED PARTS	
GUARDIAN® HP WHEEL SEAL	309-0948
VOYAGER® WHEEL SEAL	393-0148

For Guardian® Seal No. 309-0948, 7.375" Bore, See Pg. 30
For Voyager® Seal No. 393-0148, 7.375" Bore, See Pg. 30

GRIT GUARD - DRIVE AXLE 392-9092

AXLE RING	315-1508
OIL SEAL BORE DIAMETER	320-2131 6.250
INNER BEARING CUP/CONE	592A/598
OUTER BEARING CUP/CONE	752/758 653/665 HM617010/ HM617049
UNIVERSAL AXLE TOOL HEAD	555-5071
FLEET HUB TOOL	551-5363
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0027

REMARKS: Mack

RELATED PARTS	
GUARDIAN® HP WHEEL SEAL	309-0965

For Guardian® Seal No. 309-0965, 6.250" Bore, See Pg. 30

GRIT GUARD - DRIVE AXLE 392-9094

AXLE RING	315-1511
OIL SEAL BORE DIAMETER	320-2129 5.750
INNER BEARING CUP/CONE	572/580 572/582
OUTER BEARING CUP/CONE	563/567
UNIVERSAL AXLE TOOL HEAD	555-5072
FLEET HUB TOOL	551-5393
INSTALL HANDLE/BODY	555-0001 & 551-0001
BEARING GUIDE	570-0023

REMARKS: Mack Western 11QJA-191, -192 hub and drum assembly or motor wheel 87125 hub or 87119-B or 87226-F hub and drum assembly with 582 inner cone must use OEM bearing spacer 35AX-1411. Install OEM bearing spacer before installing axle ring. Press axle ring on until flush with bearing side of bearing spacer.

RELATED PARTS	
GUARDIAN® HP WHEEL SEAL	309-0903
VOYAGER® WHEEL SEAL	309-0103
DISCOVER® WHEEL SEAL	309-0203

For Guardian® Seal No. 309-0903, 5.750" Bore, See Pg. 30
For Voyager® Seal No. 393-0103, 5.750" Bore, See Pg. 30
For Discover® Seal No. 393-0203, 5.750" Bore, See Pg. 30

GRIT GUARD - DRIVE AXLE 392-9095

AXLE RING	315-1509 X
OIL SEAL BORE DIAMETER	320-2117 X 6.064
INNER BEARING CUP/CONE	572/580, 572/582, 653/663A
OUTER BEARING CUP/CONE	42620/42687
UNIVERSAL AXLE TOOL HEAD	555-5072
FLEET HUB TOOL	551-5325
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: None

RELATED PARTS	
GUARDIAN® HP WHEEL SEAL	309-0961

For Guardian® Seal No. 309-0961, 6.064" Bore, See Pg. 30

GRIT GUARD® DRIVE AXLE HUB SEALS

SEAL SETS: DRIVE AXLES

GRIT GUARD - DRIVE AXLE 392-9096

AXLE RING	315-1508
OIL SEAL BORE DIAMETER	320-2114 6.000

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	592A/595
OUTER BEARING CUP/CONE	572/580
UNIV. AXLE TOOL HEAD	555-5072
BEARING GUIDE	570-0023

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	592A/598
OUTER BEARING CUP/CONE	572/575
UNIV. AXLE TOOL HEAD	555-5071
BEARING GUIDE	570-0027

FLEET HUB TOOL	551-5412
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Oil seal 320-2114 installs in bearing cup bore. For use with Eaton 42D replace OEM bearing spacer with **357-5706** if damaged.
Dimensions: OD 4.375, ID 4.150, width .688.

RELATED PARTS	
GUARDIAN® HP HUB SEAL	309-0965

For Guardian® Seal No. 309-0965, 6.25" Bore, See Pg. 30

GRIT GUARD - DRIVE AXLE 392-9099

AXLE RING	315-1501
OIL SEAL BORE DIAMETER	320-2102 5.250

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47685, 47620/47686
OUTER BEARING CUP/CONE	39520/39590
UNIV. AXLE TOOL HEAD	555-5031
BEARING GUIDE	570-0023

BEARINGS AND TOOL COMBINATION:	
INNER BEARING CUP/CONE	47620/47678
OUTER BEARING CUP/CONE	39520/39585
UNIV. AXLE TOOL HEAD	555-5074
BEARING GUIDE	570-0022

FLEET HUB TOOL	551-5318
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Oil seal 320-2102 installs in bearing cup bore. Do not use OEM oil seal spacer ring. This set will not fit early axles with 5760 inner bearing cone.

RELATED PARTS	
GUARDIAN® HP HUB SEAL	309-0915
VOYAGER® HP HUB SEAL	393-0115
GUARDIAN® HP HUB SEAL	309-0912
VOYAGER® HP HUB SEAL	393-0112
DISCOVER® HP HUB SEAL	393-0212

For Guardian® Seal No. 309-0915, 5.500" Bore, See Pg. 30
For Voyager® Seal No. 309-0115, 5.500" Bore, See Pg. 30
For Guardian® Seal No. 309-0912, 5.690" Bore, See Pg. 30
For Voyager® Seal No. 309-0112, 5.690" Bore, See Pg. 30
For Discover® Seal No. 309-0212, 5.690" Bore, See Pg. 30

GRIT GUARD - DRIVE AXLE 392-9112

AXLE RING	315-1515
OIL SEAL BORE DIAMETER	320-2213 6.251

INNER BEARING CUP/CONE	652/663 HM516410/ HM516449-C
OUTER BEARING CUP/CONE	572/575 47620/47679
BEARING GUIDE	570-0023
UNIVERSAL AXLE TOOL HEAD	555-5072
FLEET HUB TOOL	551-5364
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Mack application, use OEM bearing spacer #35AX790 or 35AX1411.

For cast axle housing only. With HM516449A see **392-9130**. Only **309-0904** can be used with ABS Brakes.

RELATED PARTS	
GUARDIAN® HP HUB SEAL	309-0904
VOYAGER® HP HUB SEAL	393-0104
GUARDIAN® HP HUB SEAL	393-0204

For Guardian® Seal No. 309-0904, 6.25" Bore, See Pg. 30
For Voyager® Seal No. 309-0104, 6.25" Bore, See Pg. 30
For Discover® Seal No. 309-0204, 6.25" Bore, See Pg. 30

GRIT GUARD - DRIVE AXLE 392-9130

AXLE RING	315-1519 X
OIL SEAL BORE DIAMETER	320-2213 6.251

INNER BEARING CUP/CONE	HM516410/ HM516449A
OUTER BEARING CUP/CONE	572/575 47620/47679
BEARING GUIDE	570-0023
UNIVERSAL AXLE TOOL HEAD	555-5073
FLEET HUB TOOL	551-5364
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Mack application, seal set for use with HM516449A only. Do not use bearing spacer. **309-0904**, **393-0104** and **393-0204** can be used with ABS Brakes. Ref Tech Tip #015.

RELATED PARTS	
GUARDIAN® HP HUB SEAL	309-0904
VOYAGER® HP HUB SEAL	393-0104
GUARDIAN® HP HUB SEAL	393-0204

For Guardian® Seal No. 309-0904, 6.25" Bore, See Pg. 30
For Voyager® Seal No. 309-0104, 6.25" Bore, See Pg. 30
For Discover® Seal No. 309-0204, 6.25" Bore, See Pg. 30

Numbers with a red **X** indicate discontinued part numbers.

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

NOTE: Use 551 series tools with new Universal Hub Tool Handle 551-0001 (installs 320 series Voyager® and Discover® seals).

GRIT GUARD® DRIVE AXLE HUB SEALS

GRIT GUARD - DRIVE AXLE 392-9131

AXLE RING	315-1525*
OIL SEAL BORE DIAMETER	320-2106 6.310

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/598A
OUTER BEARING CUP/CONE	572/580
UNIV. AXLE TOOL HEAD	555-5071
BEARING GUIDE	570-0027

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/598
OUTER BEARING CUP/CONE	572/575
UNIV. AXLE TOOL HEAD	555-5071
BEARING GUIDE	570-0027

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/594
OUTER BEARING CUP/CONE	572/580
UNIV. AXLE TOOL HEAD	555-5076
BEARING GUIDE	570-0028

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/594A
OUTER BEARING CUP/CONE	572-580
UNIV. AXLE TOOL HEAD	555-5076
BEARING GUIDE	570-0028

FLEET HUB TOOL	551-5320
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Special note for Dodge, Freightliner, Kenworth & Peterbilt using this set on Eaton axles with Meritor hubs or wheels: Eaton 18 series single or 38D tandem with 4.375 spindle shoulder require shoulder bushing **364-6402** to be installed before axle ring. Eaton 19 series single or 44D tandem with 4.500 spindle shoulder require shoulder bushing **364-6435** to be installed before axle ring. Shoulder bushings & axle rings must be installed flush with spindle shoulder face. Shoulder bushings are not part of set & must be ordered separately. If axle has factory installed shoulder bushing, leave it in place & reuse if not damaged. Shoulder bushings are not required on Eaton axles if shoulder is already machined to the diameter for the **315-1525** axle ring. For wheel ends using 681A inner bearing refer to **392-9087** set. Hub cap **340-4119** & gasket **330-3090** available for tag and pusher use. This set fits ABS Systems (Anti-lock Brake System).

* Will not fit on Freightliner with Wagner Anti-Skid or Motorola 22-14670-14 Electronic Speedometers. Use 310-1111 standard axle ring with 320-2106 oil seal.

RELATED PARTS

GUARDIAN® HP WHEEL SEAL	309-0973
VOYAGER® WHEEL SEAL	393-0173
GUARDIAN® HP WHEEL SEAL	309-0273

For Guardian® Seal No. 309-0973, 6.130" Bore, See Pg. 30

For Voyager® Seal No. 309-0173, 6.130" Bore, See Pg. 30

For Discover® Seal No. 309-0273, 6.130" Bore, See Pg. 30

GRIT GUARD - DRIVE AXLE 392-9132

AXLE RING	315-1530
OIL SEAL BORE DIAMETER	320-2115 6.000

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/598A
OUTER BEARING CUP/CONE	572/582
UNIV. AXLE TOOL HEAD	555-5071
BEARING GUIDE	570-0027

BEARINGS AND TOOL COMBINATION:

INNER BEARING CUP/CONE	592A/594A
OUTER BEARING CUP/CONE	580
UNIV. AXLE TOOL HEAD	555-5076
BEARING GUIDE	570-0028

FLEET HUB TOOL	551-5356
INSTALL HANDLE/BODY	555-0001 & 551-0001

REMARKS: Oil seal **320-2115** installs in bearing cup bore. Aluminum hubs use **392-9131** set. REF: **392-9081**.

RELATED PARTS

GUARDIAN® HP WHEEL SEAL	309-0960
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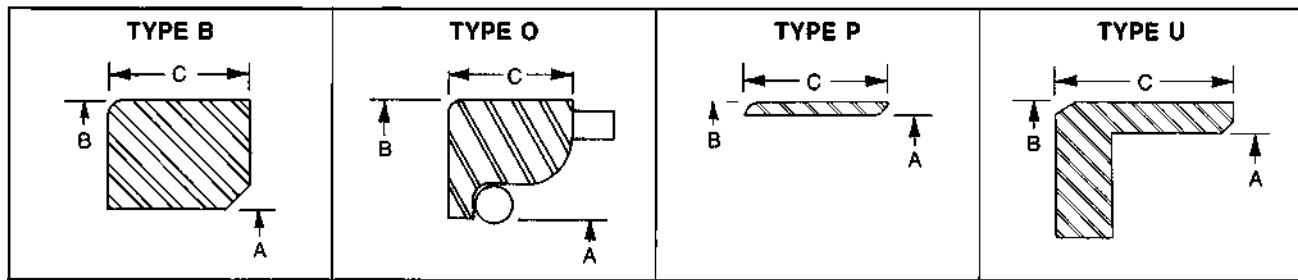
For Guardian® Seal No. 309-0960, 6.251" See Pg. 30

NOTE: Use 555 series Tool Heads with Universal Axle Tool body 555-0001 (installs axle/deflector rings).

NOTE: Use 551 series tools with new Universal Hub Tool Handle 551-0001 (installs 320 series Voyager® and Discover® seals). Numbers with a red X indicate discontinued part numbers.

AXLE RING SPECIFICATIONS

CAUTION: Dimensions shown in this section are nominal and are for parts identification only. Not intended for ring/seal combination design purposes.



NOTE: "A" dimension is the shoulder size. The axle ring I.D. is sized to provide a press fit.

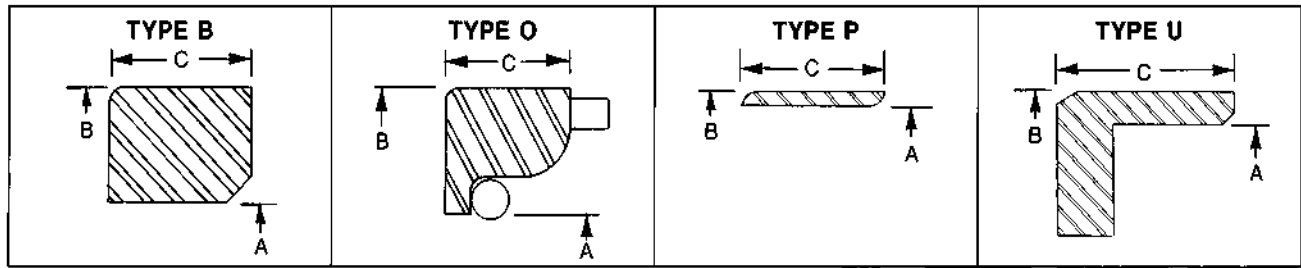
AXLE RING DIMENSIONS BY PART NUMBER

STEMCO AXLE RING NUMBER	TYPE	A FOR SHOULDER OR SPINDLE O.D.	B AXLE RING O.D.	C WIDTH	STEMCO AXLE RING NUMBER	TYPE	A FOR SHOULDER OR SPINDLE O.D.	B AXLE RING O.D.	C WIDTH
310-1007 X	P	5.000	5.120	.812	310-1053	P	4.000	4.121	.750
310-1008	P	2.878	2.980	.500	310-1057 X	B	3.750	4.120	.562
310-1009 X	B	4.000	4.600	.687	310-1058 X	P	4.823	4.948	.750
310-1012 X	P	3.875	4.040	.812	310-1061 X	P	2.671	2.775	.562
310-1013	P	4.000	4.127	.520	310-1062 X	P	3.437	3.619	.687
310-1017 X	P	3.250	3.348	.500	310-1063 X	P	3.500	3.625	.687
310-1018	P	3.937	4.035	.831	310-1064 X	P	3.125	3.250	.750
310-1022	O	3.500	4.375	.632	310-1066	P	4.875	4.948	1.000
310-1023 X	P	4.250	4.344	.547	310-1067	P	5.250	5.375	.812
310-1026 X	P	4.375	4.480	.750	310-1079	P	4.767	4.948	.812
310-1027 X	B	3.500	4.120	.500	310-1080 X	O	3.250	4.375	.625
310-1028 X	P	4.875	4.954	.500	310-1088	P	4.250	4.369	.812
310-1032 X	O	2.625	3.625	.600	310-1089	U	5.235	5.368	.908
310-1034 X	P	3.625	3.732	.500	310-1091 X	P	3.875	3.972	.812
310-1036 X	P	3.500	3.625	.524	310-1093	P	4.500	4.597	.687
310-1037 X	P	4.375	4.480	.562	310-1103	P	4.875	4.948	.750
310-1038	O	2.625	4.040	.750	310-1104 X	B	2.844	3.125	.600
310-1041	O	3.000	4.375	.812	310-1107	P	4.750	4.864	.750
310-1043	B	4.503	4.955	.500	310-1111 X	P	4.767	4.872	.650
310-1045 X	B	4.250	4.948	.531	310-1117	B	3.840	4.163	.625
310-1048	P	4.625	4.730	.593	310-1123	U	4.600	4.865	1.000
310-1050 X	O	2.125	3.187	.717	310-1130	P	4.250	4.344	.437
310-1051	O	2.500	3.625	.625	310-1132	O	2.625	4.000	.750
310-1052 X	B	3.125	3.355	.519	310-1233 X	P	4.724	4.818	.650

Numbers with a red **X** indicate discontinued part numbers.

AXLE RING SPECIFICATIONS

CAUTION: Dimensions shown in this section are nominal and are for parts identification only. Not intended for ring/seal combination design purposes.



AXLE RING DIMENSIONS BY SHOULDER OR SPINDLE O.D.

A FOR SHOULDER OR SPINDLE O.D.	TYPE	B AXLE RING O.D.	C WIDTH	STEMCO AXLE RING NUMBER
2.125	O	3.187	.717	310-1050 X
2.500	O	3.625	.625	310-1051
2.625	O	3.625	.600	310-1032 X
2.625	O	4.040	.750	310-1038
2.625		4.000	.750	310-1132
2.671	P	2.775	.562	310-1061 X
2.844	B	3.125	.600	310-1104 X
2.878	P	2.980	.500	310-1008
3.000	O	4.375	.812	310-1041
3.125	B	3.355	.519	310-1052 X
3.125	P	3.250	.750	310-1064 X
3.250	P	3.348	.500	310-1017 X
3.250	O	4.375	.625	310-1080 X
3.347	O	4.375	.875	310-1006
3.437	P	3.619	.687	310-1062 X
3.500	O	4.375	.632	310-1022
3.500	B	4.120	.500	310-1027 X
3.500	P	3.625	.524	310-1036 X
3.500	P	3.625	.687	310-1063 X
3.625	P	3.732	.500	310-1034 X
3.750	B	4.125	.562	310-1057 X
3.840	B	4.163	.625	310-1117
3.875	B	4.375	.500	310-1005
3.875	P	4.040	.812	310-1012 X
3.875	P	3.972	.812	310-1091 X

A FOR SHOULDER OR SPINDLE O.D.	TYPE	B AXLE RING O.D.	C WIDTH	STEMCO AXLE RING NUMBER
3.937	P	4.035	.831	310-1018
4.000	B	4.600	.687	310-1009 X
4.000	P	4.127	.520	310-1013
4.000	P	4.121	.750	310-1053
4.250	P	4.344	.547	310-1023 X
4.250	B	4.948	.531	310-1045 X
4.250	P	4.369	.812	310-1088
4.250	P	4.344	.437	310-1130 X
4.375	P	4.480	.750	310-1026 X
4.375	P	4.480	.562	310-1037 X
4.500	P	4.597	.687	310-1093
4.503	B	4.955	.500	310-1043
4.600	U	4.865	1.000	310-1123
4.625	P	4.730	.593	310-1048
4.724	P	4.818	.650	310-1233 X
4.750	P	4.864	.750	310-1107
4.767	P	4.948	.812	310-1079
4.767	P	4.848	.650	310-1111 X
4.823	P	4.948	.750	310-1058 X
4.875	P	4.954	.500	310-1028 X
4.875	P	4.948	1.000	310-1066
4.875	P	4.948	.750	310-1103
5.000	P	5.120	.812	310-1007 X
5.235	U	5.368	.908	310-1089
5.250	P	5.375	.812	310-1067

Numbers with a red **X** indicate discontinued part numbers.

DECIMAL EQUIVALENTS

1/32	.0313
1/16	.0625
3/32	.0938
1/8	.1250
5/32	.1563
3/16	.1875
7/32	.2188
1/4	.2500

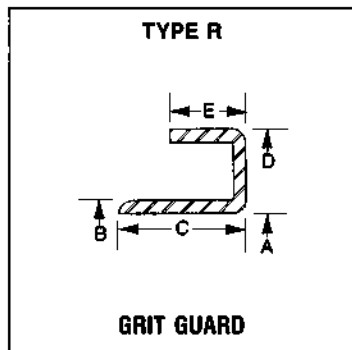
9/32	.2813
5/16	.3125
11/32	.3438
3/8	.3750
13/32	.4063
7/8	.8750
15/32	.4688
1/2	.5000

17/32	.5315
9/16	.5625
19/32	.5938
5/8	.6250
21/32	.6563
11/16	.6875
23/32	.7188
3/4	.7500

25/32	.7813
13/16	.8125
27/32	.8438
7/16	.4375
29/32	.9063
15/16	.9375
31/32	.9688
1	1.0000

GRIT GUARD® DEFLECTOR RING SPECIFICATIONS

CAUTION: Dimensions shown in this section are nominal and are for parts identification only. Not intended for ring/seal combination design purposes.



DEFLECTOR RING DIMENSIONS BY PART NUMBER

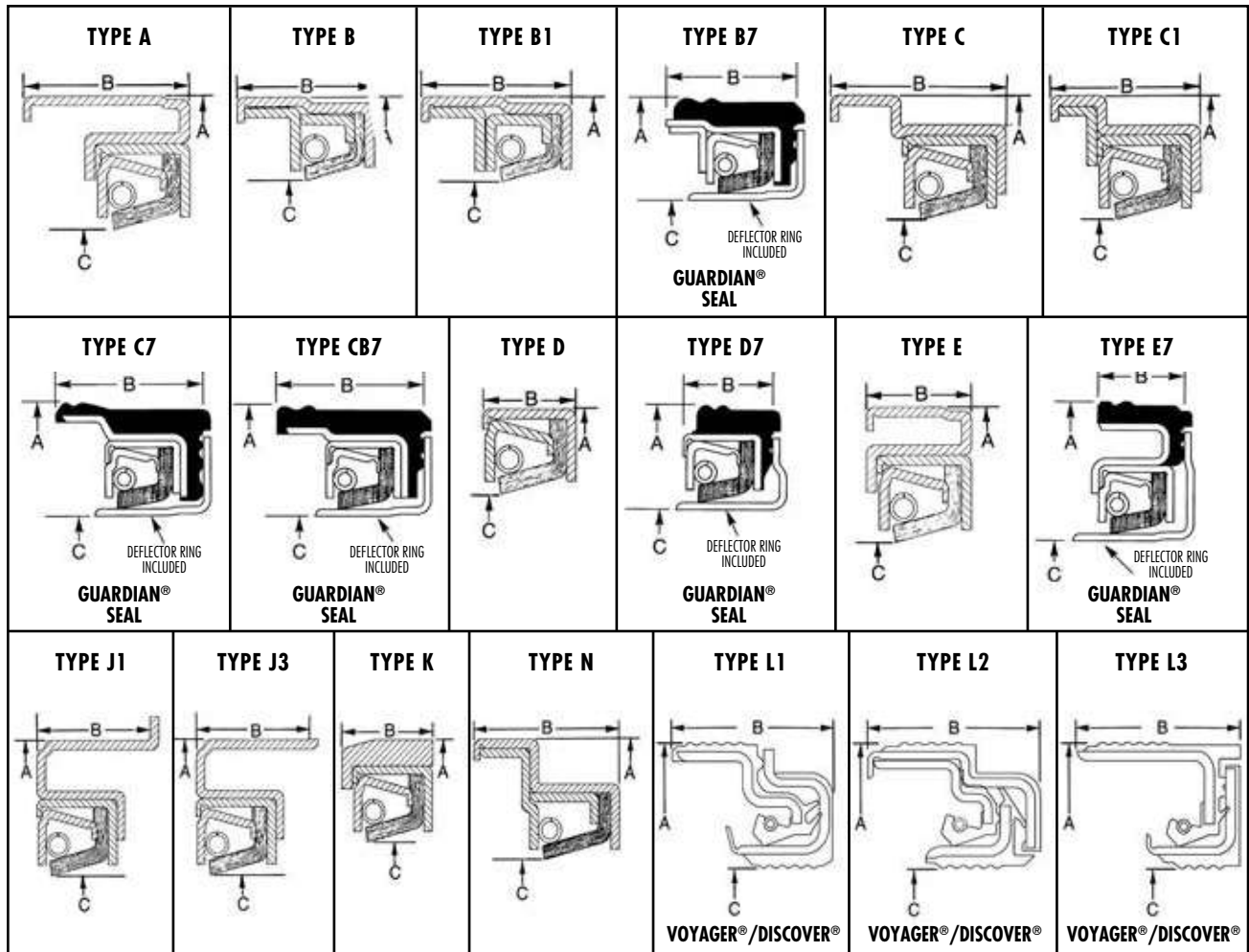
GRIT GUARD® DEFLECTOR RING	DEFLECTOR RING TYPE	A FOR SHOULDER O.D.	B SEAL AREA O.D.	C WIDTH	D FLANGE O.D.	E FLANGE WIDTH
315-1501	R	3.875	3.972	1.052	5.250	0.520
315-1502	R	4.767	4.854	1.008	6.147	0.630
315-1503	R	4.250	4.338	0.667	5.625	0.453
315-1504	R	4.625	4.730	0.730	5.875	0.430
315-1506	R	5.250	5.364	0.905	6.875	0.625
315-1507	R	4.000	4.127	0.603	5.625	0.365
315-1508	R	4.375	4.480	0.875	6.125	0.500
315-1509	R	4.262	4.375	0.811	5.630	0.468
315-1510	R	4.375	4.480	0.682	5.625	0.500
315-1511	R	4.500	4.597	0.950	5.685	0.437
315-1515	R	4.250	4.341	0.937	6.000	0.470
315-1516	R	5.250	5.375	1.110	7.125	0.395
315-1517	R	4.500	4.597	0.818	6.125	0.493
315-1519	R	4.250	4.341	1.187	6.000	0.470
315-1525	R	4.767	4.854	0.915	6.031	0.537
315-1530	R	4.767	4.872	0.915	5.935	0.400

DEFLECTOR RING DIMENSIONS BY SHOULDER O.D.

A FOR SHOULDER O.D.	DEFLECTOR RING TYPE	B SEAL AREA O.D.	C WIDTH	D FLANGE O.D.	E FLANGE WIDTH	GRIT GUARD® DEFLECTOR RING
3.875	R	3.972	1.052	5.250	0.520	315-1501
4.000	R	4.115	0.603	5.625	0.365	315-1507
4.250	R	4.341	1.187	6.000	0.470	315-1519
4.250	R	4.338	0.667	5.625	0.453	315-1503
4.250	R	4.369	0.937	6.000	0.470	315-1515
4.262	R	4.373	0.811	5.630	0.468	315-1509
4.375	R	4.480	0.682	5.625	0.500	315-1510
4.375	R	4.480	0.875	6.125	0.500	315-1508
4.500	R	4.597	0.950	5.685	0.437	315-1511
4.500	R	4.597	0.825	6.125	0.500	315-1517
4.625	R	4.730	0.745	5.875	0.490	315-1504
4.767	R	4.872	0.915	5.935	0.400	315-1530
4.767	R	4.854	1.008	6.147	0.630	315-1502
4.767	R	4.854	0.915	6.031	0.537	315-1525
5.250	R	5.375	1.110	7.125	0.395	315-1516
5.250	R	5.364	0.905	6.875	0.625	315-1506

OIL SEAL SPECIFICATIONS

CAUTION: Dimensions shown in this section are nominal and are for parts identification only. Not intended for ring/seal combination design purposes.



GUARDIAN®/GUARDIAN® HP HUB OIL SEAL DIMENSIONS BY PART NUMBER

GUARDIAN® SEAL NUMBER	TYPE	A FOR BORE DIAMETER	B WIDTH	C FOR SHOULDER O.D.
307-0713 ³	E7	5.750	.604	4.000
307-0723 ³	E7	6.008	.563	4.250
307-0743 ³	D7	6.000	.584	4.625
307-0744	C7	5.753	1.015	4.375
308-0836 ³	CB7	4.840	.840	3.500
308-0853	D7	5.372	.518	4.500
308-0855 ¹	CB7	5.875	.820	4.500
308-0856 ²	CB7	5.875	.820	4.500
308-0863	B7	4.542	.760	3.500
308-0864 ³	E7	5.903	.955	4.375
308-0866	D7	3.875	.495	2.875
308-0870	E7	5.512	.820	3.937
309-0903 ³	D7	5.750	.516	4.500

GUARDIAN® SEAL NUMBER	TYPE	A FOR BORE DIAMETER	B WIDTH	C FOR SHOULDER O.D.
309-0904 ³	E7	6.250	.548	4.250
309-0912	E7	5.690	.555	3.875
309-0915	E7	5.500	.736	3.875
309-0935	D7	4.750	.541	3.437
309-0948	E7	7.375	.735	5.250
309-0957	E7	5.500	.745	3.937
309-0960	D7	6.251	.668	4.767
309-0961	E7	6.064	.562	4.262
309-0964	E7	6.250	.600	4.500
309-0965	E7	6.250	.600	4.375
309-0970	C7	7.000	1.175	4.767
309-0973 ³	C7	6.310	.910	4.767

¹ Deflector ring width is .855.

² Deflector ring width is .685.

³ Guardian® HP.

OIL SEAL SPECIFICATIONS

OIL SEAL DIMENSIONS BY PART NUMBER

STEMCO SEAL NUMBER	TYPE	A FOR BORE DIAMETER	B WIDTH	C FOR AXLE RING O.D. +/- .010
320-2001	A	6.500	.906	4.955
320-2007 X	D	6.250	.565	5.126
320-2009	C	6.251	1.127	4.955
320-2012 X	A	5.690	.612	4.041
320-2017 X	B	4.437	.812	3.358
320-2018	B	4.125	.780	2.980
320-2021 X	A	6.312	1.192	4.955
320-2022 X	A	4.500	.625	3.187
320-2023	N	6.008	.914	4.377
320-2028 X	A	6.375	.864	4.955
320-2029 X	A	5.375	.947	4.041
320-2031	A	5.000	.890	3.623
320-2032 X	E	5.000	.539	3.623
320-2034 X	B	4.812	.875	3.730
320-2036 X	N	4.840	.875	3.625
320-2039	B	5.125	.984	4.041
320-2041	A	6.437	.906	4.955
320-2046 X	A	5.003	.890	3.623
320-2050 X	B1	4.125	.664	3.361
320-2051 X	A	5.000	.734	3.623
320-2056 X	B1	3.671	.843	2.775
320-2057 X	C1	4.625	.934	3.623
320-2058 X	D	5.500	.565	4.600
320-2059	D	6.250	.572	5.377
320-2061	C1	6.003	.895	4.955
320-2072 X	B	4.437	.812	3.250
320-2077	D	3.937	.473	3.125
320-2086	A	5.625	.600	4.127
320-2091 X	A	5.500	.600	4.166
320-2096 X	B	6.250	1.063	5.126

STEMCO SEAL NUMBER	TYPE	A FOR BORE DIAMETER	B WIDTH	C FOR AXLE RING O.D. +/- .010
320-2097	J3	7.375	.750	5.377
320-2099	K	7.250	.828	5.377
320-2102	B	5.250	1.043	3.972
320-2104	C1	5.500	1.000	4.041
320-2105 X	B	4.175	.780	2.980
320-2106	N	6.310	1.141	4.872
320-2109	N	5.750	.866	4.127
320-2110	N	6.000	.818	4.733
320-2111	C1	7.135	1.093	5.377
320-2113	N	6.000	1.062	4.629
320-2114	N	6.000	1.062	4.481
320-2115	N	6.000	1.062	4.871
320-2117 X	J1	6.064	.583	4.377
320-2118	N	5.753	.912	4.480
320-2119 X	B1	4.450	.816	3.623
320-2125 X	B1	4.437	.816	3.623
320-2129	N	5.750	.825	4.615
320-2131	N	6.250	1.023	4.485
320-2133	B1	4.542	.816	3.623
320-2136 X	A	4.500	.625	3.247
320-2137 X	N	5.903	1.056	4.485
320-2162	C1	7.000	1.320	4.872
320-2164	B	3.875	.750	2.980
320-2166 X	N	6.125	.724	4.955
320-2173	N	6.032	.875	4.377
320-2181	B1	5.372	.937	4.600
320-2199	N	5.875	.903	4.600
320-2213	J1	6.251	.562	4.377
320-2216 X	N	5.000	.820	3.732
320-2233 X	N	5.906	.913	4.818

Numbers with a red X indicate discontinued part numbers.

VOYAGER®/DISCOVER® OIL SEAL DIMENSIONS BY PART NUMBER

VOYAGER®/DISCOVER® SEAL NUMBER	TYPE	A FOR BORE DIAMETER	B WIDTH	C FOR SHOULDER O.D.
373-0113	L2	5.750	.940	4.000
373-0123	L1	6.008	.995	4.250
373-0143	L1	6.000	.981	4.625
373-0144	L3	5.753	.993	4.375
373-0191	L2	6.032	.960	4.250
383-0101	L2	5.625	.625	4.000
383-0136	L1	4.840	.932	3.500
383-0139 ¹	L2	5.120	.968	4.000
383-0153	L3	5.375	.975	4.500
383-0156	L2	5.875	.988	4.500
383-0164	L2	5.903	1.030	4.375
383-0166	L3	3.875	.750	2.875
383-0171	L2	5.000	.820	3.625
383-0175	L2	3.939	.500	2.359
383-0176	L2	4.725	.563	2.948
393-0103	L2	5.750	1.006	4.500

VOYAGER®/DISCOVER® SEAL NUMBER	TYPE	A FOR BORE DIAMETER	B WIDTH	C FOR SHOULDER O.D.
393-0104	L2	6.250	1.290	4.250
393-0112	L2	5.690	.820	3.875
393-0115	L3	5.500	.705	3.875
393-0134	L2	6.000	.790	4.875
393-0148	L2	7.375	1.000	5.250
393-0173	L1	6.310	1.127	4.767
373-0213	L2	5.750	.940	4.000
373-0223	L1	6.008	.995	4.250
373-0243	L1	6.000	.981	4.625
383-0236	L1	4.840	.932	3.500
383-0239 ²	L2	5.120	.968	4.000
383-0264	L2	5.903	1.030	4.375
393-0203	L2	5.750	1.006	4.500
393-0204	L2	6.250	1.290	4.250
393-0273	L2	6.310	1.127	4.767
393-0212	L2	5.690	.820	3.875

¹ 383-0139 must be used with 310-1132 ring, available in Kit #383-8139.

² 383-0239 must be used with 310-1132 ring, available in Kit #383-8239.

OIL SEAL SPECIFICATIONS

GUARDIAN® HUB OIL SEAL DIMENSIONS BY BORE DIAMETER

A FOR BORE DIAMETER	GUARDIAN® TYPE	B WIDTH	C FOR SHOULDER O.D.	GUARDIAN® SEAL NUMBER
3.875	D7	.495	2.875	308-0866
4.542	B7	.760	3.500	308-0863
4.750	D7	.541	3.437	309-0935
4.840	CB7	.840	3.500	308-0836
5.372	D7	.518	4.500	308-0853
5.500	E7	.736	3.875	309-0915
5.500	E7	.745	3.937	309-0957
5.512	E7	.820	3.937	308-0870
5.690	E7	.555	3.875	309-0912
5.750	E7	.604	4.000	307-0713
5.750	D7	.516	4.500	309-0903
5.753	C7	1.015	4.375	307-0744
5.875	CB7	.820	4.500	308-0855 ¹

¹ Deflector ring width is .885.

² Deflector ring width is .685.

A FOR BORE DIAMETER	GUARDIAN® TYPE	B WIDTH	C FOR SHOULDER O.D.	GUARDIAN® SEAL NUMBER
5.875	CB7	.820	4.500	308-0856 ²
5.903	E7	.955	4.375	308-0864
6.000	D7	.584	4.625	307-0743
6.008	E7	.563	4.250	307-0723
6.064	E7	.562	4.262	309-0961
6.250	E7	.548	4.250	309-0904
6.250	E7	.600	4.500	309-0964
6.250	E7	.600	4.375	309-0965
6.251	D7	.668	4.767	309-0960
6.310	C7	.910	4.767	309-0973
7.000	C7	1.175	4.767	309-0970
7.375	E7	.735	5.250	309-0948

OIL SEAL DIMENSIONS BY BORE DIAMETER

A FOR BORE DIAMETER	SEAL TYPE	B WIDTH	C FOR AXLE RING O.D. +/- .010	STEMCO OIL SEAL NUMBER
3.671	B1	.843	2.775	320-2056 X
3.875	B	.750	2.980	320-2164
3.937	D	.473	3.125	320-2077
4.125	B	.780	2.980	320-2018
4.125	B1	.664	3.361	320-2050 X
4.175	B	.780	2.980	320-2105 X
4.437	B	.812	3.250	320-2072 X
4.437	B	.812	3.358	320-2017 X
4.437	B1	.816	3.623	320-2125 X
4.450	B1	.816	3.623	320-2119 X
4.500	A	.625	3.187	320-2022 X
4.500	A	.625	3.247	320-2136 X
4.542	B1	.816	3.623	320-2133
4.625	C1	.934	3.623	320-2057 X
4.812	B	.875	3.730	320-2034 X
4.840	N	.875	3.625	320-2036 X
5.000	E	.539	3.623	320-2032 X
5.000	A	.734	4.623	320-2051 X
5.000	A	.890	3.623	320-2031
5.000	N	.820	3.732	320-2216 X
5.003	A	.890	3.623	320-2046 X
5.125	B	.984	4.041	320-2039 X
5.250	B	1.043	3.972	320-2102
5.372	B1	.937	4.600	320-2181
5.375	A	.947	4.041	320-2029 X
5.500	C1	1.000	4.041	320-2104
5.500	A	.600	4.166	320-2091 X
5.500	D	.565	4.600	320-2058 X
5.625	A	.600	4.127	320-2086 X
5.690	A	.612	4.041	320-2012 X

A FOR BORE DIAMETER	SEAL TYPE	B WIDTH	C FOR AXLE RING O.D. +/- .010	STEMCO OIL SEAL NUMBER
5.750	N	.866	4.127	320-2109
5.750	N	.825	4.615	320-2129
5.753	N	.912	4.480	320-2118
5.875	N	.903	4.600	320-2199
5.903	N	1.056	4.485	320-2137 X
5.906	N	.913	4.818	320-2233 X
6.000	B	1.062	4.481	320-2114
6.000	B	1.062	4.629	320-2113
6.000	N	.818	4.733	320-2110
6.000	B	1.062	4.871	320-2115
6.003	C1	.895	4.955	320-2061
6.008	N	.914	4.377	320-2023
6.032	N	.875	4.377	320-2173
6.064	J1	.583	4.377	320-2117 X
6.250	N	1.023	4.485	320-2131
6.250	D	.565	5.126	320-2007 X
6.250	B	1.063	5.126	320-2096 X
6.250	D	.572	5.377	320-2059
6.251	J1	.562	4.377	320-2213
6.251	C	1.127	4.955	320-2009
6.310	N	1.141	4.872	320-2106
6.312	A	1.192	4.955	320-2021 X
6.375	A	.864	4.955	320-2028 X
6.437	A	.906	4.955	320-2041
6.500	A	.906	4.955	320-2001
7.000	C1	1.320	4.872	320-2162
7.135	C1	1.093	5.377	320-2111
7.250	K	.828	5.377	320-2099
7.375	J1	.750	5.377	320-2097

Numbers with a red X indicate discontinued part numbers.

Unitized Pinion Seals



TECHNOLOGICALLY ADVANCED SEALING SOLUTIONS

STEMCO's Unitized Pinion Seals' superior performance, ease of use, and durability make them a complete solution for even the most punishing applications.

Easy Installation

The single-piece, unitized design is installed in one step using the yoke bolt and installation tool to install the press-fit OD.

Eliminate Yoke Wear

Sealing lips are contained in a manner that prevents yoke surface contact from the lip. New yokes will remain new at the sealing point.

Repair "Grooved" Yokes

The wide contact area of the seal ID makes most yokes reusable.

Eliminate Leak Paths

Bore sealant on the OD and the wide contact area on the ID eliminate leak paths to avoid premature failures.

Repair Sleeves Not Required

The unitized design incorporates a wear ring to provide an ideal running surface for the sealing lip, thus eliminating the need for repair sleeves that often change the seal-lip angle during operation and result in reduced life.

Reduce Contamination Failures

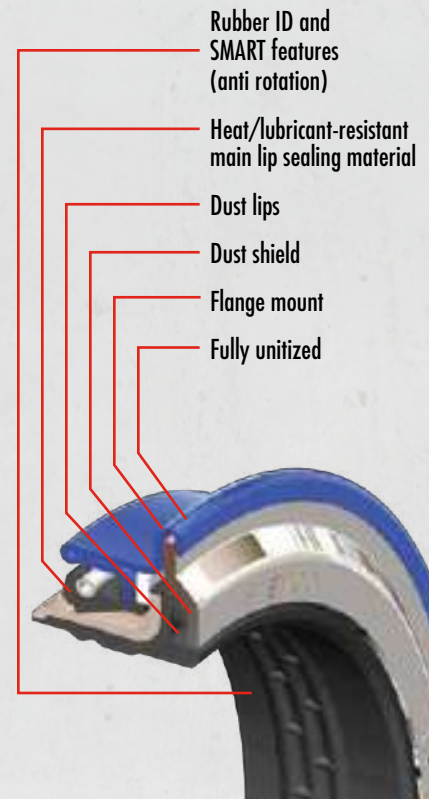
To promote long life, a labyrinth path with multiple dust lips prevents contamination ingress.

Long-Life Performance

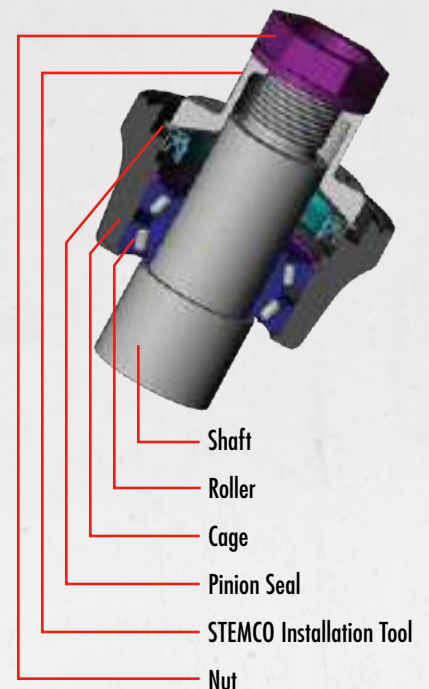
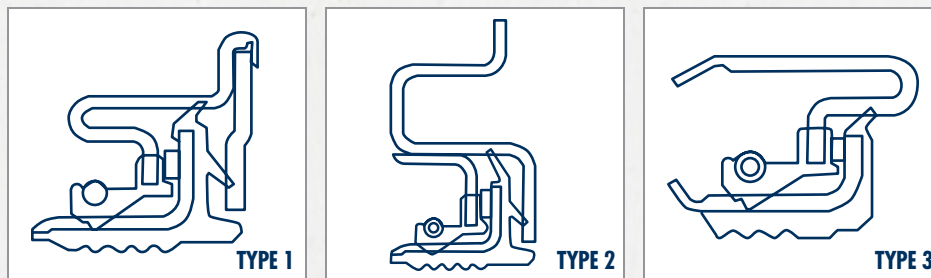
High performance rubber on the main sealing lip withstands the high heat consistent with pinion seal applications.

UNITIZED PINION SEAL SPECIFICATIONS & INTERCHANGE

PART NUMBER/ APPLICATION	BORE ID/YOKE SHAFT OD	TOOL NUMBER	OE NUMBER	SKF NUMBER	NATIONAL NUMBER	DESIGN TYPE
STEMCO® No. 429-0002 Mack Front Input	4.500/ 3.500	551-5360	88AX458	34882 34891	415991N	1
STEMCO No. 429-0003 Eaton 400 Rear Input	4.564/ 2.625	551-5001	127721 79470	26373 26378	9773	2
STEMCO No. 429-0004 Eaton 400 Front Output	3.625/ 2.625	551-5003	127720 63910	26200 26209 26239	475003N	3
Eaton 344, 404, 405, 454 Front Output			127592	26762		3
STEMCO No. 429-0005 Meritor SQ100 Front Output	3.751/ 3.003	551-5004	A11205Y2729 A1205P2590	29865 29867 30007	4810V 100495 415281N	1
STEMCO No. 429-0006 Eaton 402 Front Input	4.003/ 2.937	551-5002	127719 A1205U1737	29292 29322 29316 29380	416654 475012N	3
Eaton 40, 461-653 series Front Output			210737			
STEMCO No. 429-0007 Meritor R145/160 Front Input	4.249/ 3.253	551-5006	A11205X2728 A1205R2592 A1205P1368	32385 32397 32410	4543V 100494 416470N	1
STEMCO No. 429-0008 Mack Front Output	3.537/ 2.751	551-5007	88AX456 A1205A1925	27295 27558	4874N 475322N	1
STEMCO No. 429-0009 Mack Rear Input	3.996/ 2.751	551-5008	88AX457	27542 27565	415272N	1
STEMCO No. 429-0010 Meritor SQ100 Rear Input	4.935/ 3.003	551-5009	A11250Z2730 A1205N2588 A1205H2426	30145 30153	3905 4562V 100263	2
STEMCO No. 429-0011 Meritor RT 46-160, 180, 380 Series	5.501/ 3.253	551-5011	A1205Q2591	32870	4544V 100557	2
STEMCO No. 429-0012 Eaton 344, 404, 405 & 454 Front and Rear Input	4.564/ 3.000	551-5012	127591	29528		2



DESIGN TYPES



PINION SEAL SPECIFICATIONS

PINION SEAL SPECIFICATIONS BY SET NUMBER

SET #	BORE ID	YOKE SHAFT OD	WEAR SLEEVE	DUST SEAL	OIL SEAL	SPLINE OD	TOOL NUMBER
460-6001	3.625	2.625	419-1946 X	429-2945 X	429-2944 X	1-3/4 1 31/32	589-8999 X 589-8994 X
460-6002	4.562	2.625	419-1946 X	¹	429-2983 X	1-3/4 1 31/32	589-8998 X 589-8987 X
460-6003	3.937	2.937	419-1981 X	429-2978 X	429-2977 X	2	589-8997 X
460-6006	4.000	2.937	419-1940 X	429-2937 X	429-2938 X	² 2 5/32	589-8996 X 589-8993 X
460-6007	4.000	3.000	419-1939 X	429-2937 X	429-2938 X	1-31/32	589-8990 X 589-8989 X
460-6011	4.250	3.250	419-1941 X	¹	429-2941 X	2-1/4	²
460-6012	4.250	3.000	419-1901 X	¹	429-2901 X	Any	²
460-6083	4.250	3.250	419-1983 X	¹	429-2941 X	2-1/4	²
460-6084	4.000	2.937	419-1984 X	429-2937 X	429-2938 X	² 2 5/32	589-8990 X 589-8989 X

Numbers with a red **X** indicate discontinued part numbers.

¹ Oil Seal & Dust Seal are an integral unit

² Use Tool 589-8984, 589-8985 or 589-8986



STEMCO HUB CAPS
THE INDUSTRY LEADER, PROVIDING
PROVEN PROTECTION AND EXCEPTIONAL
VALUE FOR EVERY FLEET



STEMCO®

INNOVATIVE DESIGNS AND SUPERIOR MATERIALS ENSURE SAFETY AND DURABILITY

STEMCO® has provided the trucking industry with reliable hub caps for more than 60 years. Throughout our history, we have recognized the need for tougher, long-lasting hub caps that meet the performance, design and price requirements related to selecting the right hub cap for any fleet. To meet that need, STEMCO has engineered a menu of hub cap options designed to meet the varying performance expectations of each fleet, all in an effort to maximize performance and value.

WITH WHEEL END INTEGRITY AND DOWN TIME ON THE LINE, DO NOT ACCEPT LESSER QUALITY IMITATIONS OR KNOCK OFFS. TRUST THE EXPERTS, TRUST STEMCO.

Innovative Product Line

Product- and application-specific technology designed to eliminate contaminants and extend wheel end life.

Superior Materials

Cast aluminum to dissipate heat.

Numerous Lubricant Options

Oil, semi-fluid grease, and hard-pack grease hub caps to meet performance, design and price requirements of today's fleets worldwide.

Broad Application Coverage

Full-line coverage for trailer and tractor applications.

TRADITIONAL HUB CAPS

The traditional aluminum series 340 and 343 provide durability with the trademark red plug to allow venting of the hub cap. Using cast aluminum for constructing the hub cap body prevents warpage and provides superior durability and heat-dissipation properties. The trucking industry recognizes STEMCO hub caps as the benchmark.



343-4024
Steer

343-4046
Steer

343-4065
Steer

343-4095
Steer

343-4249
Steer

346-5110
Steer

340-4119
Drive

340-4975
Trailer

343-4009
Trailer

343-4064
Trailer

343-4075
Trailer

343-4342
Trailer

SENTINEL® HUB CAPS

Sentinel Technology provides an unmatched filtering system to eliminate contamination of lubricant from grime, dirt or water. STEMCO provides four options to put Sentinel Technology to work for you:

- The Sentinel hub cap provides a tamper-proof system for maximum protection and maintenance-free performance.
- Integrated Sentinel hub caps integrate the Sentinel features into the window with fewer components and greater wheel end visibility.
- The Sentinel ESP (Extended Service Plug) and Sentinel ESP Filtered Drive Axle Vent allow economical retrofitting of wheel ends and drive axles with the benefits of STEMCO's exclusive Sentinel Technology.



348-4009
Trailer

356-4009
Trailer

353-4009
Trailer

359-6125
ESP Plug
359-6124
Blister Pack (2/pk)

359-6137
Drive Axle Vent

POPULAR REPLACEMENT PARTS

- **359-5995**
4009 Oil Window Kit
- **359-5990**
Large Red Rubber Plug
- **359-5915**
Small 3/4" Red Rubber Plug

STAMPED STEEL HUB CAPS

STEMCO Stamped Steel grease hub caps are manufactured from 14-gauge steel and have a protective yellow chromate plating with a clear lacquer coating for additional protection from corrosion. For synthetic-base grease, use the vented 340-5096 version cap. For petroleum-base grease, use the non-vented 340-5097 cap.



340-0044
Steer



340-5096
Trailer



340-5097
Trailer

GREASE HUB CAPS

For grease applications, the 342 series Dirt Exclusion hub caps provide the same 340 casting without a side fill plug, plus a solid window with a sintered metal vent for venting purposes. To further support grease wheel ends, STEMCO developed the 352 series Solid Aluminum hub caps with a duckbill vent inserted in the face of a solid hub cap.



352-4009
Trailer



342-4009
Trailer

INFLATION HUB CAPS

STEMCO tire inflation hub caps are available in both oil and grease for several popular applications. The oil hub caps have a side fill plug and a standard window with oil fill lines. The grease hub caps do not have a side fill plug and incorporate a gray opaque window with no markings.



343-4370
PSI™



831-0212
Aeris®

DEFENDER™ HUB CAPS

The Defender hub cap is 100% corrosion-free, with stainless steel reinforcement inserts. It achieves longer wheel-end life using a magnetic plug that pulls abrasive material away from critical components. An exception chemical bond between the hub cap and window ensures a strong seal and no leaks.



368-4195
Trailer

363-4009
Trailer

366-4024
Steer

HUBODOMETER® HUB CAPS

STEMCO Hubodometer hub caps provide ease and convenience when installing our mechanical or electronic DataTrac® Hubdometers. The 347 series aluminum hub cap is mounted with a hub window while the 640 series is a full grilamid Hubodometer hub cap with a metallic flange. Both allow for mounting of the Hubodometer directly through the center of the hub cap.



347-4009
Trailer



640-0001
Trailer

POPULAR HUB CAP OPTIONS WITH BOLT SPECIFICATIONS

Stemco Base Part Number	Standard Hub Cap, No Side Fill	Defender™ Hub Cap	Dirt Exclusion, Grease	Standard Hub Cap, Side Fill	Defender™ Hub Cap	Standard Hub Cap, Hub Window	Sentinel® Hub Cap	Sentinel® Hub Cap Grease	Solid Aluminum Grease / Vented	Integrated Sentinel® Oil	Defender™ Hub Cap	Integrated Sentinel® Grease	Defender™ Hub Cap	Bolt Circle	Bolt Size	Number of Bolts
	340	360	342	343	363	347	348	349	352	356	366	358	368			
4009	X	X	X	X	X	X	X	X	X	X	X	X	X	5-1/2	5/16	6
4013	X		X	X		X	X	X		X		X		5-1/2	5/16	5
4024	X	X	X	X	X					X	X	X		4-1/2	5/16	6
4046	X			X			X	X		X		X		5-1/2	5/16	6
4075	X		X	X		X	X	X		X		X		6-1/4 x 8 UN(M)		
4095	X		X	X			X	X	X	X		X		5-1/2	5/16	6
4195	X	X	X	X	X	X	X	X	X	X	X	X	X	6-3/4	5/16	6
4249	X		X	X										5-1/2	5/16	6
4281							X	X						5-17/32	3/8	6
4370*	X			X										5-1/2	5/16	6
4371*	X			X										6-1/4 x 8 UN(M)		
4372*	X			X										6-3/4	5/16	6

LEGEND

- 340/360** - No Pipe Plug
- 342** - Dirt Exclusion Grease
- 343/363** - With Pipe Plug
- 348** - Sentinel® Oil
- 349** - Sentinel® Grease
- 350** - With ESP Sentinel® Plug
- 353** - With ESP Sentinel® Plug
- 356/366** - Sentinel® Oil - Integrated
- 358/368** - Sentinel® Grease Integrated
- 349** - Sentinel® Grease
- 4009** - Tapered Spindle "TN"
- 4195** - Parallel Spindle "TP"

*PSI

HUB CAP CROSSOVER

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO PART NO.
1282	SKF	340-4975
1612	SKF	343-4024
1612	SKF	360-4024
1612	SKF	361-4024
1612	SKF	363-4024
1612	SKF	364-4024
1612	SKF	366-4024
1612	SKF	367-4024
1612	SKF	369-4024
1623	SKF	343-4066
1627	SKF	343-4019
1642	SKF	343-4013
1643	SKF	343-4009
1643	SKF	340-4009
1643	SKF	361-4009
1643	SKF	363-4009
1643	SKF	364-4009
1643	SKF	366-4009
1643	SKF	367-4009
1643	SKF	368-4009
1643	SKF	369-4009
1665	SKF	343-4042
1681	SKF	343-4186
1682	SKF	343-4075
1696	SKF	343-4195
1696	SKF	360-4195
1696	SKF	361-4195
1696	SKF	363-4195
1696	SKF	364-4195
1696	SKF	366-4195
1696	SKF	367-4195
1696	SKF	368-4195
1696	SKF	369-4195
1703	SKF	343-4249
1711	SKF	343-4024
1723	SKF	343-4066
1727	SKF	343-4019
1742	SKF	343-4013
1743	SKF	343-4009
1743	SKF	343-4046
1743	SKF	343-4095
1753	SKF	343-4249
1765	SKF	343-4042
1770	SKF	343-4034
1781	SKF	343-4186
1788	SKF	343-4249
1800	SKF	347-4009

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO PART NO.
1801	SKF	347-4013
1811	SKF	343-4024
1823	SKF	343-4042
1742	SKF	343-4013
1843	SKF	343-4009
1843	SKF	343-4046
1843	SKF	343-4095
1865	SKF	343-4066
1870	SKF	343-4034
1890	SKF	343-4249
340-009	National	340-4009
340-009BK	National	300-4009
340-975	National	340-4975
340-975BK	National	340-4975
343-009	National	343-4009
343-009BK	National	303-4009
401911P	Mechanex/Barrier	340-4975
506085	Eaton	343-4024
506089	Eaton	343-4249
64002	TriSeal	343-4019
64009	TriSeal	343-4009
64009H	TriSeal	347-4009
64013	TriSeal	343-4013
64024	TriSeal	343-4024
64029	TriSeal	343-4186
64034	TriSeal	343-4034
64042	TriSeal	343-4024
64046	TriSeal	343-4046
64046	TriSeal	343-4095
64046	TriSeal	343-4249
64066	TriSeal	343-4066
64075A	TriSeal	343-4075
64075G	TriSeal	342-4075
64075P	SKF	340-4975
64249	SKF	343-4249
812928	SKF	343-4095
815214	SKF	343-4195
821338	SKF	343-4009
821907	SKF	343-4009
C40-4009	SKF	340-4009
C40-4009BP	SKF	300-4009
C40-4975	SKF	340-4975
C40-4975BP	SKF	340-4975
C40-5097BP	SKF	340-5097
C43-4009	SKF	343-4009
C43-4009BP	SKF	303-4009
C43-4013	SKF	343-4013
C43-4024	SKF	343-4024

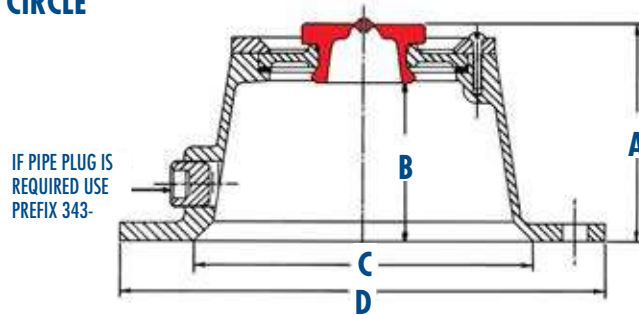
COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO PART NO.
C43-4042	SKF	343-4042
C43-4075	SKF	343-4075
C43-4095	SKF	343-4095
C43-4098	SKF	343-4098
C43-4249	SKF	343-4249
DG-5/6P	Dual Dynamics	340-4013
DG-5/6PS	Dual Dynamics	343-4013
DG-6F	Dual Dynamics	340-4046
DG-6F4.5	Dual Dynamics	340-4024
DG-6F4.5P	Dual Dynamics	343-4013
DG-6F4.5PC	Dual Dynamics	343-4024
DG-6F4.5S	Dual Dynamics	347-4075
DG-6FL	Dual Dynamics	340-4249
DG-6FP	Dual Dynamics	347-4009
DG-6FPC	Dual Dynamics	340-4024
DG-6P	Dual Dynamics	340-4009
DG-6PS	Dual Dynamics	343-4009
DG-6PSC	Dual Dynamics	340-4046
DG-7.5P	Dual Dynamics	340-4195
DG-7.5PS	Dual Dynamics	343-4195
DG-P	Dual Dynamics	340-4075
DG-PS	Dual Dynamics	343-4075
DG-PSC	Dual Dynamics	343-4249
H075	National	343-4075
HS1643	Mechanex/Barrier	343-4249
HU009A	National	343-4009
HU009A	National	343-4046
HU013A	National	343-4013
HU019A	National	343-4019
HU024A	National	343-4024
HU028A	National	343-4186
HU034A	National	343-4034
HU042A	National	343-4042
HU066A	National	343-4066
HU110A	National	343-4095
HU110A	National	343-4249
P411601	Mechanex/Barrier	343-4009
P411605	Mechanex/Barrier	343-4095
P411605	Mechanex/Barrier	343-4249
P411608	Mechanex/Barrier	343-4013
P411620	Mechanex/Barrier	343-4066
P411622	Mechanex/Barrier	343-4042
P411629	Mechanex/Barrier	343-4186
P411630	Mechanex/Barrier	343-4024
P411640	Mechanex/Barrier	343-4034
P411655	Mechanex/Barrier	343-4075
P411688	Mechanex/Barrier	343-4095
P411967	Mechanex/Barrier	343-4046

HUB CAP TORQUE SPECS

THREADED HUB CAPS		HUB CAP MOUNTING BOLTS				HUB CAP COMPONENTS		
XXX-4075	100 ft/lbs	1/4"	8-12 ft/lbs	5/8"	22-26 ft/lbs	359-6032	#8 Torx Screw	18-23 in/lbs
340-4975	50-60 ft/lbs	5/16"	12-16 ft/lbs	3/4"	24-28 ft/lbs	359-5984	3/8" Mag Plug	5-9 ft/lbs
340-4976	50-60 ft/lbs	3/8"	16-20 ft/lbs	7/8"	26-30 ft/lbs	359-5985	3/8" Pipe Plug	5-9 ft/lbs
640-0003	50-60 ft/lbs	7/16"	18-22 ft/lbs	6MM	8-12 ft/lbs			
		1/2"	20-24 ft/lbs	8.5MM	12-16 ft/lbs			

HUB CAP SPECIFICATIONS

BOLT-ON HUB CAPS BY BOLT CIRCLE



How to Determine Bolt Circle

Count the number of mounting holes; measure diameter of bolts; measure bolt circle (select 2 holes opposite each other and measure from the center of one bolt to the center of the one opposite). On odd number holes, measure inside diameter of hub and add twice the distance from the bore to the center of bolt hole.

BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	A HEIGHT	B INSIDE DEPTH	C FLANGE I.D.	D FLANGE O.D.	HUB CAP INCLUDES GASKET	GASKET NUMBER
3-5/8	5/16	4	2-1/4	1-1/2	2-1/2	4-1/2	340-4065	330-3040
3-7/8	5/16	6	2-1/4	1-1/2	2-3/4	4-1/2	340-4198	330-3119
4	1/4	4	2-1/8	1-3/8	3-1/8	4-9/16	340-4157 ¹	330-3102
4-1/16	3/16	6	2-5/8	1-7/8	3-5/16	4-1/2	340-4139 ¹	330-3094
4-1/2	5/16	6	2-5/8	1-7/8	3-1/2	5-1/4	340-4024	330-3024
4-1/2	5/16	6	2-5/8	1-7/8	3-1/2	5-1/4	343-4308	330-3024
4-1/2	6mm	6	2-5/8	1-7/8	3-1/2	5-1/4	340-4263	330-3024
5	1/4	4	3-1/8	2-3/8	4	5-3/4	340-4028	330-3028
5	5/16	4	2-1/8	1-3/8	4	5-3/4	340-4186	330-3120
5-1/8	5/16	6	2-7/8	2-1/8	3-3/4	5-3/4	340-4066	330-3041
5-1/8	5/16	6	1-7/8	1-1/8	4	5-11/16	340-4042	330-3041
5-1/4	3/8	3	2-7/8	2-1/8	4-3/8	6	340-4002	330-3002
5-1/4	3/8	3	3-1/2	2-3/4	4-1/8	Not Round	340-4019	330-3019
5-1/4	5/16	6	2-7/8	2-1/8	4-3/8	6	340-4031	330-3031
5-1/2	5/16	6	1-1/4	1-1/8	4-7/16	6-3/16	340-4098	330-3009
5-1/2	5/16	5	2-11/16	1-15/16	4-3/8	6-1/4	340-4013	330-3013
5-1/2	5/16	6	1-13/16	1-11/16	4-7/16	6-3/16	340-4249 ³	330-3122
5-1/2	5/16	6	1-13/16	1-1/16	4-9/16	6-3/16	340-4095	330-3009
5-1/2	5/16	6	2-5/16	1-9/16	4-9/16	6-3/16	340-4046	330-3009
5-1/2	5/16	6	2-11/16	1-15/16	4-3/8	6-1/4	340-4009	330-3009
5-1/2	5/16	6	2-11/16	1-15/16	4-3/8	6-1/4	343-4122	330-3009
5-1/2	5/16	6	1-13/16	1-1/16	4-9/16	6-3/16	343-4309	330-3009
5-1/2	5/16	6	2-11/16	1-15/16	4-3/8	6-1/4	343-4342	330-3009
5-17/32	3/8	6	1-13/16	1-9/16	4-7/16	6-3/16	343-4250 ²	330-3122
5-17/32	3/8	6	2-5/16	1-9/16	4-9/16	6-3/16	343-4281 ³	330-3122
5-9/16	5/16	6	1-13/16	1-11/16	4-7/16	6-3/16	340-4249 ³	330-3122
5-9/16	5/16	3	2-7/8	2-1/8	3-3/4	6-3/8	340-4049	330-3042
5-9/16	5/16	6	2-7/8	2-1/8	3-11/16	6-3/8	340-4149	330-3097
5-7/8	5/16	6	1-3/8	5/8	4-1/4	6-1/2	343-4025 ²	330-3025
5-7/8	5/16	6	1-5/8	1-7/16	4-1/2	6-37/64	340-4092	330-3025
5-7/8	5/16	6	2-3/8	1-5/8	5-1/8	Not Round	340-4036	330-3035
6	5/16	6	2-5/8	1-7/8	5	6-3/4	340-4059	330-3056

¹ Cannot be made with pipe plug
² Made with pipe plug only
³ Fits 5-1/2 and 5-9/16 bolt circles

HUB CAP SPECIFICATIONS

BOLT-ON HUB CAPS BY BOLT CIRCLE *CONTINUED*

BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	A HEIGHT	B INSIDE DEPTH	C FLANGE I.D.	D FLANGE O.D.	HUB CAP INCLUDES GASKET	GASKET NUMBER
6	5/16	6	2-1/2	1-3/4	4-15/16	6-7/8	343-4176	330-3060
6	3/8	6	3-3/16	2-3/8	4-15/16	6-7/8	343-4080 ²	330-3060
6-1/8	3/8	3	2-11/16	1-15/16	4-5/16	7	340-4011	330-3011
6-1/8	5/16	6	2-11/16	1-15/16	4-5/16	7	340-4163 ¹	330-3104
6-5/8	1/4	6	2-13/16	2-1/16	5-5/16	7-1/8	340-4034	330-3034
6-3/4	5/16	6	3-11/16	2-15/16	5-7/16	7-1/2	340-4195	330-3118
6-3/4	3/8	6	2-11/16	1-15/16	5	7-3/4	343-4064 ²	330-3079
6-7/8	7/16	7	2-11/16	1-15/16	5	7-3/4	340-4082	330-3062
7	5/8	8	2-1/16	1-5/16	4-5/16	8-1/4	340-4119 ¹	330-3090
7	13/16	8	2-1/16	1-5/16	4-5/16	8-1/4	340-4305 ¹	330-3090
7-1/4	1/4	6	2-7/8	2-1/8	6-1/4	7-7/8	343-4107 ²	330-3084
110/mm	8.5mm	6	67.3mm	47.0mm	88.4mm	133.3mm	343-4295 ²	330-3130

¹ Cannot be made with pipe plug

² Made with pipe plug only

4009 HUB CAP VARIATIONS

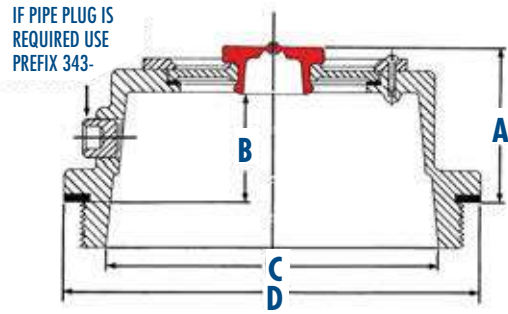
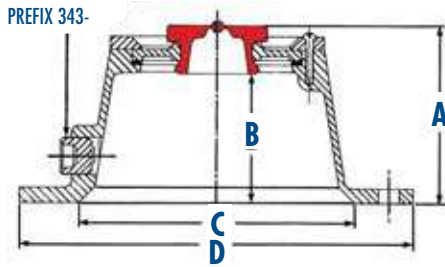
APPLICATION	PART NUMBER	DESCRIPTION
Oil	343-4350	Cast aluminum hub cap with PSI face & side fill plug
Oil	347-4009	Cast aluminum hub cap with hubo window & side fill plug
Oil	348-4009	Cast aluminum hub cap with Sentinel® Technology and side fill plug
Oil	356-4009	Integrated Sentinel®
Grease/Oil	340-4009	Cast aluminum hub cap with large red fill plug & no side fill plug
Grease/Oil	343-4009	Cast aluminum hub cap with large red fill plug & side fill plug
Grease/Oil	300-4009	Cast aluminum hub cap with large red fill plug & no side fill plug in 50 unit bulk pack
Grease/Oil	303-4009	Cast aluminum hub cap with large red fill plug & side fill plug in 50 unit bulk pack
Grease	340-4350	Cast aluminum hub cap with PSI face & no side fill plug
Grease	340-5096	Stamped steel hub cap with vent
Grease	340-5097	Stamped steel hub cap with no vent
Grease	342-4009	Cast aluminum hub cap with dirt exclusion window & no side fill plug
Grease	347-4278	Cast aluminum hub cap with hubo window & no side fill plug
Grease	347-5096	Stamped steel hub cap with hubo mounting hole & vent
Grease	349-4009	Cast aluminum hub cap with Sentinel® Technology and no side fill plug
Grease	352-4009	Cast aluminum hub cap with solid top (duckbill vent) & no side fill plug
Grease	358-4009	Integrated Sentinel®

BULK HUB CAPS

STANDARD PART #	BULK PART #	BULK QTY.	GASKET #
340-4009	300-4009	25	330-3009 - Included
343-4009	303-4009	25	330-3009 - Included
340-5097	300-5097	25	330-3009 - Included
340-5096	300-5096	25	330-3009 - Included

HUB CAP SPECIFICATIONS

HUB CAPS BY CAP NUMBER



COMPONENT SPECIFICATIONS

HUB CAP INCLUDES GASKET	BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	A HEIGHT	B INSIDE DEPTH	C FLANGE I.D.	D FLANGE O.D.	GASKET NUMBER	WINDOW KIT
340-4002	5-1/4	3/8	3	2-7/8	2-1/8	4-3/8	6	330-3002	359-5999
340-4009 ⁴	5-1/2	5/16	6	2-11/16	1-15/16	4-3/8	6-1/4	330-3009	359-5995
340-4011	6-1/8	3/8	3	2-11/16	1-15/16	4-5/16	7	330-3011	359-5995
340-4013 ⁴	5-1/2	5/16	5	2-11/16	1-15/16	4-3/8	6-1/4	330-3013	359-5995
340-4015	Blank	-	-	2-11/16	1-15/16	4-3/8	6-1/4	330-3015	359-5995
340-4019	5-1/4	3/8	3	3-1/2	2-3/4	4-1/8	Not Round	330-3019	359-5995
340-4024	4-1/2	5/16	6	2-5/8	1-7/8	3-1/2	5-1/4	330-3024	359-5999
343-4025 ²	5-7/8	5/16	6	1-3/8	5/8	4-1/4	6-1/2	330-3025	359-5999
340-4028	5	1/4	4	3-1/8	2-3/8	4	5-3/4	330-3028	359-5999
340-4031	5-1/4	5/16	6	2-7/8	2-1/8	4-3/8	6	330-3031	359-5999
340-4034	6-5/8	1/4	6	2-13/16	2-1/16	5-5/16	7-1/8	330-3034	359-5999
340-4036	5-7/8	5/16	6	2-3/8	1-5/8	5-1/8	Not Round	330-3035	359-5995
340-4042	5-1/8	5/16	6	1-7/8	1-1/8	4	5-11/16	330-3041	359-5999
340-4046	5-1/2	5/16	6	2-5/16	1-9/16	4-9/16	6-3/16	330-3009	359-5995
340-4054 ¹	Blank	None	-	2-1/8	1-3/8	4-1/32	8-5/8	330-3017	359-5995
340-4059	6	5/16	6	2-5/8	1-7/8	5	6-3/4	330-3056	359-5995
343-4064 ²	6-3/4	3/8	6	2-11/16	1-15/16	5	7-3/4	330-3079	359-5995
340-4065	3-5/8	5/16	4	2-1/4	1-1/2	2-3/4	4-1/2	330-3040	359-5990
340-4066	5-1/8	5/16	6	2-7/8	2-1/8	3-3/4	5-3/4	330-3041	359-5999
340-4075 ⁴	6-1/4 X 8 UN (M)			2-5/16	1-9/16	5-3/4	6-7/8	330-3077	359-5995
343-4080 ²	6	3/8	6	3-3/16	2-3/8	4-15/16	6-7/8	330-3060	359-5999
340-4082	6-7/8	7/16	7	2-11/16	1-15/16	5	7-3/4	330-3062	359-5995
340-4092	5-7/8	5/16	6	1-5/8	1-7/16	4-1/2	6-37/64	330-3025	359-5912
340-4095	5-1/2	5/16	6	1-13/16	1-1/16	4-9/16	6-3/16	330-3009	359-5995
340-4098	5-1/2	5/16	6	1-1/4	1-1/8	4-7/16	6-3/16	330-3009	359-5912
343-4107 ²	7-1/4	1/4	6	2-7/8	2-1/8	6-1/4	7-7/8	330-3084	359-5995
340-4119 ¹	7	5/8	8	2-1/16	1-5/16	4-5/16	8-1/4	330-3090	359-5995
343-4122 ⁵	5-1/2	5/16	6	2-11/16	1-15/16	4-3/8	6-1/4	330-3009	359-5995
340-4139 ²	4-1/16	3/16	6	2-5/8	1-7/8	3-5/16	4-1/2	330-3094	359-5999

¹ Cannot be made with pipe plug

² Made with pipe plug only

⁴ Hub cap available with hub window, order 347-prefix. Also available 347-4342, which is 4195 hub cap for grease applications and 347-4343 which is 4075 hub cap for grease applications, 347-4278 for 4009 grease hub cap application.

⁵ 4009 hub cap with magnetic pipe plug (359-5984)

CONTINUED ON NEXT PAGE

HUB CAP SPECIFICATIONS

HUB CAPS BY CAP NUMBER *CONTINUED*

HUB CAP INCLUDES GASKET	BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	A HEIGHT	B INSIDE DEPTH	C FLANGE I.D.	D FLANGE O.D.	GASKET NUMBER	WINDOW KIT
340-4149	5-9/16	5/16	6	2-7/8	2-1/8	3-11/16	6-3/8	330-3097	359-5999
340-4157 ¹	4	1/4	4	2-1/8	1-3/8	3-1/8	4-9/16	330-3102	NONE
340-4163 ¹	6-1/8	5/16	6	2-11/16	1-15/16	4-5/16	7	330-3104	359-5995
343-4176	6	5/16	6	2-1/2	1-3/4	4-15/16	6-7/8	330-3060	359-5999
340-4186	5	5/16	4	2-1/8	1-3/8	4	5-3/4	330-3120	359-5999
340-4195 ⁴	6-3/4	5/16	6	3-11/16	2-15/16	5-7/16	7-1/2	330-3118	359-5995
340-4198	3-7/8	5/16	6	2-1/4	1-1/2	2-3/4	4-1/2	330-3119	NONE
340-4249 ³	5-1/2	5/16	6	1-13/16	1-11/16	4-7/16	6-3/16	330-3122	359-5912
343-4250 ^{2,7}	5-17/32	3/8	6	1-13/16	1-9/16	4-7/16	6-3/16	330-3122	NONE
340-4263 ¹	4-1/2	6mm	6	2-5/8	1-7/8	3-1/2	5-1/4	330-3024	359-5999
343-4281 ³	5-17/32	3/8	6	2-5/16	1-9/16	4-9/16	6-3/16	330-3122	359-5995
343-4295 ²	110mm	8.5mm	6	67.3mm	47.0mm	88.4mm	133.3mm	330-3130	359-5999
343-4308 ^{2,10}	4-1/2	5/16	6	2-5/8	1-7/8	3-1/2	5-1/4	330-3024	NONE
343-4309 ^{2,8}	5-1/2	5/16	6	1-13/16	1-1/16	4-9/16	6-3/16	330-3009	359-6100
340-4320 ¹		6-1/4 X 8 UN (M)		2-5/16	1-9/16	5-3/4	6-7/8	330-3077	NONE
343-4342 ^{2,9}	5-1/2	5/16	6	2-11/16	1-15/16	4-3/8	6-1/4	330-3009	359-6100
340-4975 ^{1,6}		6-1/4 X 8 UN (M)		2-5/16	1-9/16	5-3/4	6-7/8	330-3077	NONE
340-4976 ^{1,6}		6-1/4 X 8 UN (M)		2-5/16	1-9/16	5-3/4	6-7/8	330-3077	NONE
340-4977 ¹¹		6-1/4 X 8 UN (M)		2-5/16	1-9/16	5-3/4	6-7/8	330-3077	NONE
343-5111	3-5/8	5/16	4	2-1/4	1-1/2	2-3/4	4-1/2	330-3040	NONE

- ¹ Cannot be made with pipe plug
- ² Made with pipe plug only
- ³ Hub cap can be used with 5-1/2 or 5-9/16 bolt circle with 5/16 inch bolts
- ⁴ Hub cap available with hubo window, order 347-prefix. Also available **347-4342**, which is 4195 hub cap for grease applications and **347-4343** which is 4075 hub cap for grease applications, **347-4278** for 4009 grease hub cap applications. Also available with Hubo window when ordered with 347 prefix. See options below.
- ⁶ Lexan hub caps, order in multiples of 25
- ⁷ 4249 with recessed vent plug
- ⁸ 4095 with small vent plug **359-5915**
- ⁹ 4009 with small vent plug **359-5915**
- ¹⁰ 4024 with small vent plug
- ¹¹ 4975 individually boxed

TORQUE SPECIFICATIONS

HUB CAP MOUNTING BOLTS			
BOLT SIZE	TORQUE	BOLT SIZE	TORQUE
3/16	8-10 ft. lbs.	1/2	20-24 ft. lbs.
1/4	8-12 ft. lbs.	3/4	24-28 ft. lbs.
5/16	12-16 ft. lbs.	7/8	26-30 ft. lbs.
3/8	16-20 ft. lbs.	6 MM	8-12 ft. lbs.
7/16	18-22 ft. lbs.	8.5 MM	12-16 ft. lbs.

THREADED HUB CAPS	
PART #	TORQUE
XXX-4075	100 ft. lbs.
340-4975	50-60 ft. lbs.
340-4976	50-60 ft. lbs.
640-0003	50-60 ft. lbs.

HUBO WINDOW OPTIONS		
STEMCO BASE PART #	GREASE CAP PART #	OIL CAP PART #
4009	347-4278	347-4009
4075	347-4343	347-4075
4195	347-4342	347-4195

HUB CAP COMPONENTS		
PART #	DESCRIPTION	TORQUE
359-6032	#8 Torx Screw	25 in. lbs. Maximum
359-5984	3/8 Mag Plug	5-9 ft. lbs. Maximum
359-5985	3/8 Pipe Plug	5-9 ft. lbs. Maximum

SENTINEL®



EXCEPTIONAL PROTECTION FROM THE ELEMENTS, GUARANTEED

Sentinel® Hub Cap technology provides an unmatched filtering system to eliminate contamination from dirt, dust, sand and water, all while making it easy to visually monitor lube levels. Featuring an innovative design and durable construction, Sentinel hub caps help extend equipment life, reduce maintenance and increase profitability.

Sentinel Hub Cap

Provides a tamper-proof hub cap system for maximum protection and maintenance-free performance.

Sentinel ESP (Extended Service Plug)

Allows Sentinel Technology to be retrofitted on existing wheel ends with drive axle plugs or aftermarket plugs.

World Class Innovation

The only water proof hub cap in the industry.

Versatile

Order OEM or retrofit in the aftermarket on a trailer, drive or steer axle.

A Corrosion-Free Option

STEMCO Defender™ hub caps with Sentinel Technology are made from composite materials with stainless steel reinforcement inserts that will not corrode.

SENTINEL: KEEPING WATCH OVER WHEEL ENDS

- Prevents dirt and water from contaminating the oil, thereby extending seal and bearing life.
- Dramatically reduces contaminant build-up on hub cap windows, allowing for an accurate determination of lube levels.
- Eliminates early oil breakdown by preventing water contamination as a result of submerged axles.
- Provides maximum protection for maintenance-free wheel end systems.
- Improves performance and lowers overall maintenance costs.



SENTINEL HUB CAP



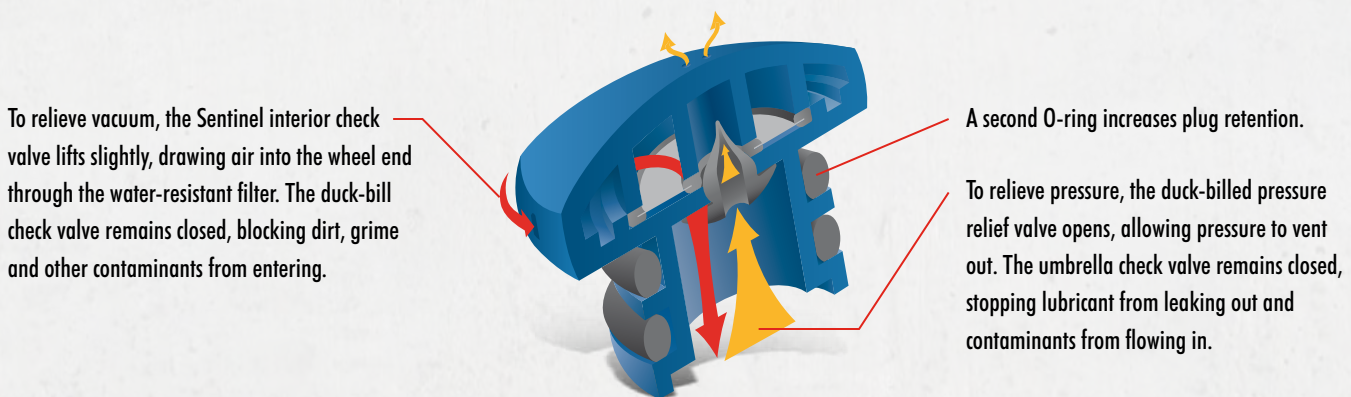
INTEGRATED SENTINEL HUB CAP

SENTINEL HUB CAP

STEMCO BASE PART NO.	OIL CAP	GREASE CAP	BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	GASKET NUMBER	OIL WINDOW KIT	GREASE WINDOW KIT
4009	348-4009	349-4009	5 1/2"	5/16"	6	330-3009	359-6112	359-6120
4013	348-4013	349-4013	5 1/2"	5/16"	5	330-3013	359-6112	359-6120
4046	348-4046	349-4046	5 1/2"	5/16"	6	330-3009	359-6112	359-6120
4075	348-4075	349-4075		6 1/4" x 8" UN(M)		330-3077	359-6112	359-6120
4095	348-4095	349-4095	5 1/2"	5/16"	6	330-3009	359-6112	359-6120
4195	348-4195	349-4195	6 3/4"	5/16"	6	330-3118	359-6112	359-6120
4281	348-4281	N/A	5 17/32"	3/8"	6	330-3122	359-6112	359-6120

INTEGRATED SENTINEL HUB CAP

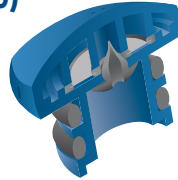
STEMCO BASE PART NO.	OIL CAP	GREASE CAP	BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	GASKET NUMBER	OIL WINDOW KIT	GREASE WINDOW KIT
4009	356-4009	358-4009	5 1/2"	5/16"	6	330-3009	359-6145	359-6146
4009	366-4009	368-4009	5 1/2"	5/16"	6	330-3009		
4013	356-4013	358-4013	5 1/2"	5/16"	5	330-3013	359-6145	359-6146
4024	356-4024	358-4024	4 1/2"	5/16"	6	330-3024	359-6143	359-6144
4024	366-4009	368-4009	5 1/2"	5/16"	6	330-3009		
4025	356-4025	358-4025	5 7/8"	5/16"	6	330-3025	359-6143	359-6144
4046	356-4046	358-4046	5 1/2"	5/16"	6	330-3009	359-6145	359-6146
4075	356-4075	358-4075		6 1/4" x 8" UN(M)		330-3077	359-6145	359-6146
4080	356-4080	358-4080	6	3/8"	6	330-3060	359-6143	359-6144
4095	356-4095	358-4095	5 1/2"	5/16"	6	330-3009	359-6145	359-6146
4119	356-4119	358-4119	7	5/8"	8	330-3090	359-6145	359-6146
4150	356-4150	358-4150	4 1/2"	5/16"	5	330-3150	359-6143	359-6144
4195	356-4195	358-4195	6 3/4"	5/16"	6	330-3118	359-6145	359-6146
4195	360-4195	368-4195	6 3/4"	5/16"	6	330-3118		
4195	366-4195	368-4195	6 3/4"	5/16"	6	330-3118		



HUB CAP SPECIFICATIONS

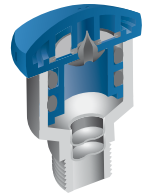
SENTINEL® ESP (EXTENDED SERVICE PLUG)

STEMCO PART #	DESCRIPTION
359-6124	ESP Plug Blister Pack (2/pk)
359-6125	ESP Plugs (bulk pack of 50)



SENTINEL® ESP FILTERED VENT

STEMCO PART #	DESCRIPTION
359-6137	Drive Axle Vent (3/8" adapter)



HUB CAPS WITH SENTINEL® ESP PLUG

SENTINEL ESP PART #	DESCRIPTION	BOLT CIRCLE	BOLT SIZE	# OF BOLTS	GASKET P/N
350-4065*	4065 Cap, no side fill plug	3-5/8	5/16	4	330-3040
353-4065*	4065 Cap, with side fill plug	3-5/8	5/16	4	330-3040



*Cannot use standard 340 or 343-4065 cap with ESP™ Plug. The casting has been modified to accept the ESP™, therefore, the above part numbers must be ordered to use this application with the ESP™ Plug.

BULK PACK HUB CAPS WITH SENTINEL® ESP PLUG

SENTINEL ESP PART #	DESCRIPTION	BOLT CIRCLE	BOLT SIZE	# OF BOLTS	GASKET P/N
300-5009	4009 Cap, no side fill plug Bulk Pack (25/Box)	5-1/2	5/16	6	330-3009
303-5009	4009 Cap, with side fill plug Bulk Pack (25/Box)	5-1/2	5/16	6	330-3009

PSI READY HUB CAP

STEMCO PART #	GREASE CAP	OIL CAP	OIL CAP WITH MAGNETIC PIPE PLUG
4009	340-4370	343-4370	343-4373
4075	340-4371	343-4371	343-4374
4195	340-4372	343-4372	343-4375
4384	340-4384	N/A	N/A
Window Kits	359-6141	359-6140	—



Grease Hub Cap
340 Series



Oil Hub Cap
343 Series

Window kit consists of window, gasket and PSI retainer ring/gasket.

HUBO BRACKET FOR SENTINEL® AND PSI HUB CAPS

STEMCO PART #	STEMCO BASE PART #	PSI HUB CAP PART# (GREASE)	PSI HUB CAP PART# (OIL)	STUD SIZE	HEIGHT
610-0084	4195	340-4372	343-4372	5/16	5
610-0028	4009	340-4370	343-4370	5/16	5
610-0090	4075	340-4371	343-4371	*	1 7/8

*Bracket mounts on top of window ring w/4 replacement screws included w/bracket.

HUB CAP SPECIFICATIONS

POPULAR HUB CAP OPTIONS WITH BOLT SPECIFICATIONS

STEMCO BASE PART #	PREFIX	4009	4013	4024	4046	4075	4095	4195	4249	4281	4370 †	4371 †	4372 †
STANDARD HUB CAP, NO SIDE FILL	340	X	X	X	X	X	X	X	X		X	X	X
DIRT EXCLUSION, GREASE	342	X	X	X		X	X	X	X				
STANDARD HUB CAP, SIDE FILL	343	X	X	X	X	X	X	X	X		X	X	X
STANDARD HUB CAP, HUBO WINDOW	347	X	X			X		X					
SENTINEL® HUB CAP	348	X	X		X	X	X	X		X			
SENTINEL® HUB CAP GREASE	349	X	X		X	X	X	X		X			
SOLID ALUMINUM GREASE / VENTED	352	X					X	X					
INTEGRATED SENTINEL® OIL	356	X	X	X	X	X	X	X					
INTEGRATED SENTINEL® GREASE	358	X	X	X	X	X	X	X					
BOLT CIRCLE		5-1/2	5-1/2	4-1/2	5-1/2	6-1/4 x 8 UN(M)	5-1/2 x 5/16	6-3/4	5-1/2	5-17/32	5-1/2	6-1/4 x 8 UN(M)	6-3/4
BOLT SIZE		5/16	5/16	5/16	5/16			5/16	5/16	3/8	5/16		5/16
# OF BOLTS		6	5	6	6			6	6	6	6		6

† PSI Hub Cap

HUB CAP CROSSOVER

COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #	COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #	COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #
1282	C/R	340-4975	401911P	Mechanex/Barrier	340-4975	DG-6F4.5	Dual Dynamics	340-4024
1612	C/R	343-4024	506085	Eaton	343-4024	DG-6F4.5P	Dual Dynamics	343-4013
1623	C/R	343-4066	506089	Eaton	343-4249	DG-6F4.5PC	Dual Dynamics	343-4024
1627	C/R	343-4019	64002	TriSeal	343-4019	DG-6F4.5S	Dual Dynamics	347-4075
1642	C/R	343-4013	64009	TriSeal	343-4009	DG-6FL	Dual Dynamics	340-4249
1643	C/R	343-4249	64009H	TriSeal	347-4009	DG-6FP	Dual Dynamics	347-4009
1665	C/R	343-4042	64013	TriSeal	343-4013	DG-6FPC	Dual Dynamics	340-4024
1681	C/R	343-4186	64024	TriSeal	343-4024	DG-6P	Dual Dynamics	340-4009
1682	C/R	343-4075	64029	TriSeal	343-4186	DG-6PS	Dual Dynamics	343-4009
1696	C/R	343-4195	64034	TriSeal	343-4034	DG-6PSC	Dual Dynamics	340-4046
1703	C/R	343-4249	64042	TriSeal	343-4042	DG-7.5P	Dual Dynamics	340-4195
1711	C/R	343-4024	64046	TriSeal	343-4046	DG-7.5PS	Dual Dynamics	343-4195
1723	C/R	343-4066	64046	TriSeal	343-4095	DGP	Dual Dynamics	340-4075
1727	C/R	343-4019	64046	TriSeal	343-4249	DG-PS	Dual Dynamics	343-4075
1742	C/R	343-4013	64066	TriSeal	343-4066	DG-PSC	Dual Dynamics	343-4249
1743	C/R	343-4009	64075A	TriSeal	343-4075	H075	National	343-4075
1743	C/R	343-4046	64075G	TriSeal	342-4075	HS1643	Mechanex/Barrier	343-4249
1743	C/R	343-4095	64075P	TriSeal	340-4975	HU009A	National	343-4009
1753	C/R	343-4249	64249	TriSeal	343-4249	HU009A	National	343-4046
1765	C/R	343-4042	812928	Eaton	343-4095	HU013A	National	343-4013
1770	C/R	343-4034	815214	Eaton	343-4195	HU019A	National	343-4019
1781	C/R	343-4186	821338	Eaton	343-4009	HU024A	National	343-4024
1788	C/R	343-4249	821907	Eaton	343-4009	HU028A	National	343-4186
1800	C/R	347-4009	C40-4009	C/R	340-4009	HU034A	National	343-4034
1801	C/R	347-4013	C40-4009BP	C/R	300-4009	HU042A	National	343-4042
1811	C/R	343-4024	C40-4975	C/R	340-4975	HU066A	National	343-4066
1823	C/R	343-4042	C40-4975BP	C/R	340-4975	HU110A	National	343-4095
1842	C/R	343-4013	C40-5097BP	C/R	340-5097	HU110A	National	343-4249
1843	C/R	343-4009	C43-4009	C/R	343-4009	P411601	Mechanex/Barrier	343-4009
1843	C/R	343-4046	C43-4009BP	C/R	303-4009	P411605	Mechanex/Barrier	343-4095
1843	C/R	343-4095	C43-4013	C/R	343-4013	P411605	Mechanex/Barrier	343-4249
1865	C/R	343-4066	C43-4024	C/R	343-4024	P411608	Mechanex/Barrier	343-4013
1870	C/R	343-4034	C43-4042	C/R	343-4042	P411620	Mechanex/Barrier	343-4066
1890	C/R	343-4249	C43-4075	C/R	343-4075	P411622	Mechanex/Barrier	343-4042
340-009	National	340-4009	C43-4095	C/R	343-4095	P411629	Mechanex/Barrier	343-4186
340-009BK	National	300-4009	C43-4098	C/R	343-4098	P411630	Mechanex/Barrier	343-4024
340-975	National	340-4975	C43-4249	C/R	343-4249	P411640	Mechanex/Barrier	343-4034
340-975BK	National	340-4975	DG-5/6P	Dual Dynamics	340-4013	P411655	Mechanex/Barrier	343-4075
343-009	National	343-4009	DG-5/6PS	Dual Dynamics	343-4013	P411688	Mechanex/Barrier	343-4095
343-009BK	National	303-4009	DG-6F	Dual Dynamics	340-4046	P411967	Mechanex/Barrier	343-4046

HUB CAP SPECIFICATIONS



340-5094



340-5096



340-5097

STAMPED STEEL GREASE HUB CAPS

HUB CAP INCLUDES GASKET	BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	A HEIGHT	B INSIDE DEPTH	C FLANGE I.D.	D FLANGE O.D.	GASKET #
340-5094	5-1/2	5/16	6	2-1/2	2-13/32	4-3/8	6-1/4	330-3009
340-5096 ¹	5-1/2	5/16	6	2-1/2	2-13/32	4-3/8	6-1/4	330-3009
340-5097	5-1/2	5/16	6	2-1/2	2-13/32	4-3/8	6-1/4	330-3009
340-0044 ²	4-1/2	5/16	6	2	1-15/16	3-5/16	5-3/16	330-3024

¹ With Dirt Exclusion vent

² Painted black

SOLID GREASE HUB CAP/DUCKBILL VENTED

STEMCO PART #	BOLT CIRCLE	BOLT SIZE	# OF BOLTS	GASKET #
352-4009	5-1/2	5/16	6	330-3009
352-4195	6-3/4	5/16	6	330-3118
362-4009*	5-1/2	5/16	6	330-3009
362-4195*	6-3/4	5/16	6	330-3118



352-4195

*No Duckbill Vent

NON-VENTED GREASE HUB CAPS

SENTINEL PART #	APPLICATION	BOLT CIRCLE DIAMETER	BOLT SIZE	# OF BOLTS	GASKET #
340-4321	4009 "N" Series Grease-Trailer	5-1/2	5/16	6	330-3009
340-4322	4195 "P" Series Grease-Trailer	6-3/4	5/16	6	330-3118



340-4321

DIRT EXCLUSION GREASE HUB CAPS

HUB CAP INCLUDES GASKET	BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	A HEIGHT	B INSIDE DEPTH	C FLANGE I.D.	D FLANGE O.D.	GASKET NUMBER	WINDOW KIT
342-4009	5-1/2	5/16	6	2-11/16	1-15/16	4-3/8	6-1/4	330-3009	359-6095
342-4013	5-1/2	5/16	5	2-11/16	1-15/16	4-3/8	6-1/4	330-3013	359-6095
342-4024	4-1/2	5/16	6	2-5/8	1-7/8	3-1/2	5-1/4	330-3024	359-6094
342-4075	6-1/4 x 8 UN(M)			2-5/16	1-9/16	5-3/4	6-7/8	330-3077	359-6095
342-4095	5-1/2	5/16	6	1-13/16	1-1/6	4-9/16	6-3/16	330-3009	359-6095
342-4195	6-3/4	5/16	6	3-11/16	2-15/16	5-7/16	7-1/2	330-3118	359-6095
342-4249	5-1/2	5/16	6	1-13/16	1-11/16	4-7/16	6-3/16	330-3122	359-6096



342-4009

*Window Kit consists of window, gasket and window ring gasket.

HUB CAP SPECIFICATIONS



340-4075



570-7008



340-4975

4075 HUB CAP VARIATIONS

APPLICATION	PART NUMBER	DESCRIPTION
Oil	340-4975	Clear polycarbonate hub cap
Oil	343-4075	Cast aluminum hub cap with side fill plug
Oil	343-4371	Cast aluminum hub cap with PSI face & side fill plug
Oil	347-4075	Cast aluminum hub cap with hubo window and side fill plug
Oil	348-4075	Cast aluminum hub cap with Sentinel® Technology & side fill plug
Oil	353-4075	Cast aluminum hub cap with Sentinel® ESP plug & side fill plug
Oil	356-4075	Integrated Sentinel®
Grease/Oil	340-4075	Cast aluminum hub cap & no side fill plug
Grease	342-4075	Cast aluminum hub cap with dirt exclusion window
Grease	340-4320	Solid cast aluminum hub cap & no side fill plug
Grease	340-4371	Cast aluminum hub cap with PSI face & no side fill plug
Grease	340-4976	Clear polycarbonate hub cap with solid face—no vent
Grease	347-4343	Cast aluminum hub cap with hubo window and no side fill plug
Grease	349-4075	Cast aluminum hub cap with Sentinel® Technology & no side fill plug
Grease	350-4075	Cast aluminum hub cap with Sentinel® ESP & no side fill plug
Grease	358-4075	Integrated Sentinel®

Screw-on Caps must have O-rings (330-3077).
Use 570-7008 tool to tighten pro-par hub caps.

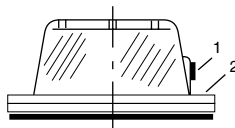
VENTED HUBODOMETER® HUB CAPS

HUB CAP INCLUDES GASKET	GASKET PART #	BOLT CIRCLE DIAMETER	NUMBER OF HOLES	BOLT DIAMETER	ALUMINUM EQUIVALENT
640-0001*	641-0005	5-1/2	6	5/16	347-4009
640-0002*	641-0017	5-1/2	5	5/16	347-4013
640-0003*	330-3077		6-1/4 x 8 UN(M)		347-4075

*Vented

ACCESSORIES

DESCRIPTION	PART #
1-Pipe plug with O-ring	641-0001
2-Magnetic Pipe Plug	359-5984
3-Supporting hub cap flange 6 hole	641-0003



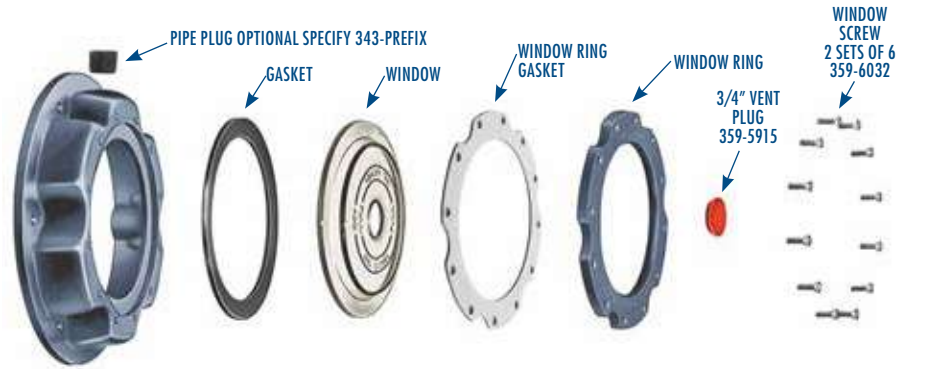
640-0001



640-0003

HUB CAP SPECIFICATIONS

TYPICAL 4-3/8" WINDOW COMPONENT PARTS



TYPICAL 2-3/4" & 3-1/2" WINDOW COMPONENT PARTS



STANDARD HUB CAP REPLACEMENT COMPONENTS

3/8 PIPE PLUG ²	GASKET	WINDOW DIAMETER	WINDOW	WINDOW RING GASKET	WINDOW RING	VENT PLUG	WINDOW KIT ¹	SCREW SET 6/SET
359-5985	359-5996	2-3/4	359-5983	359-3136	359-5997 ³	359-5990 ⁴	359-5999	359-6032
359-5985	359-5991	3-1/2	359-5994	359-3127	359-5992	359-5990 ⁴	359-5995	359-6032
359-5985	359-5991	3-1/2	—	359-3127	359-5992	None	359-6117	359-6032
359-5985	359-5968	4-3/8	359-5918	359-3137	359-5970	359-5915	359-5912	359-6032 ⁶
359-5985	359-5991	3-1/2	359-6049 ⁵	359-3127	359-5992	359-5915	359-6100 ⁵	359-6032

¹ Window kit consists of window, gasket, window ring gasket and vent plug

² Magnetic pipe plug part number 359-5984

³ 5 hole window ring

⁴ Blue vent plug part number 359-5930

⁵ Window with recessed vent plug

⁶ Two sets required

DIRT EXCLUSION GREASE HUB CAP REPLACEMENT COMPONENTS

WINDOW DIAMETER	WINDOW	GASKET	WINDOW RING	WINDOW RING GASKET	SCREW SET 6/SET	WINDOW KIT
2-3/4	359-6086	359-5996	359-5997	359-3136	359-6032	359-6094
3-1/2	359-6087	359-5991	359-5992	359-3127	359-6032	359-6095
4-3/8	359-6088	359-5968	359-5970	359-3137	359-6032 ⁷	359-6096

⁷ Two sets required

SENTINEL® HUB CAP REPLACEMENT COMPONENTS

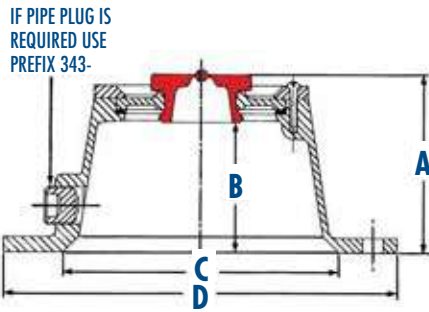
WINDOW DIAMETER	WINDOW KIT ⁸	GASKET	WINDOW RING GASKET	SCREW SET 6/SET	MAGNETIC PIPE PLUG
3-1/2	359-6112 ⁹	359-5991	359-3127	359-6032	359-5984
3-1/2	359-6120 ¹⁰	359-5991	359-3127	359-6032	359-5984

⁸ Window kit consists of window, gasket, window ring with gasket and Sentinel red cap cover part number 359-6103.

⁹ Window kit for oil application

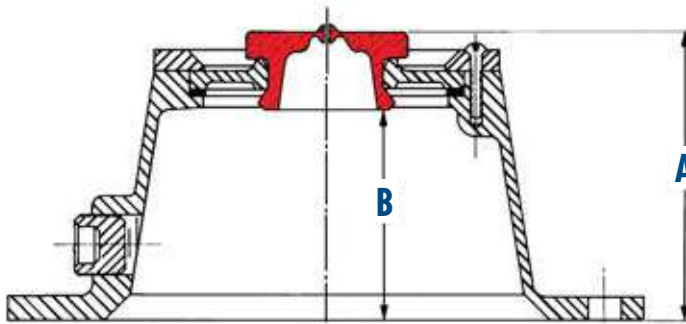
¹⁰ Window kit for grease application

HUB CAP SPECIFICATIONS



BLANK HUB CAPS

HUB CAP INCLUDES GASKET	BOLT CIRCLE	BOLT SIZE	NO. OF BOLTS	A HEIGHT	B INSIDE DEPTH	C FLANGE I.D.	D FLANGE O.D.	GASKET NUMBER
340-4054	None	Blank	None	2-1/8	1-3/8	4-1/32	8-5/8	330-3017



HUB CAP INTERCHANGE

This STEMCO hub cap interchange is arranged with hub caps in descending inside depth so that a cap can be replaced by any cap above it within its bolt circle group and without fear of spindle interference.

5" Bolt Circle with Four 1/4" Mounting Bolts

CAP NO.	INSIDE (B)	OUTSIDE (A)
340-4028	2-3/8	3-1/8

5-9/16" Bolt Circle with Three 5/16" Mounting Bolts

CAP NO.	INSIDE (B)	OUTSIDE (A)
340-4049	2-1/8	2-7/8

5-1/8" Bolt Circle with Six 5/16" Mounting Bolts

CAP NO.	INSIDE (B)	OUTSIDE (A)
340-4066	2-1/8	2-7/8
340-4042	1-1/8	1-7/8

5-9/16" Bolt Circle with Six 5/16" Mounting Bolts

CAP NO.	INSIDE (B)	OUTSIDE (A)
340-4149	2-1/8	2-7/8
340-4249 ¹	1-11/16	1-13/16

5-1/2" Bolt Circle with Six 5/16" Mounting Bolts

CAP NO.	INSIDE (B)	OUTSIDE (A)
340-4009	1-15/16	2-11/16
340-4249 ¹	1-11/16	1-13/16
340-4046	1-9/16	2-5/16
340-4281 ¹	1-9/16	2-5/16
340-4098	1-1/8	1-1/4
340-4095	1-1/16	1-13/16

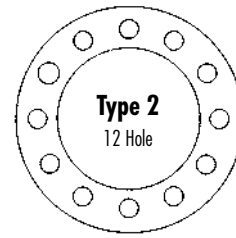
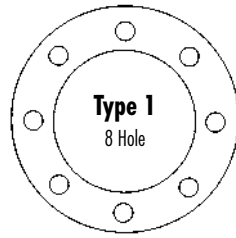
5-7/8" Bolt Circle with Six 5/16" Mounting Bolts

CAP NO.	INSIDE (B)	OUTSIDE (A)
340-4036	1-5/8	2-3/8
340-4092	1-7/16	1-5/8
343-4025	5/8	1-3/8

NOTE: STEMCO does not recommend vehicle widths.

¹ Hub cap fits both 5-1/2" and 5-9/16" bolt circle with six 5/16" mounting bolts

FLANGE GASKET SPECIFICATIONS



DRIVE AXLE FLANGE GASKET DIMENSIONS

STEMCO GASKET NO.	TYPE	I.D.	O.D.	BOLT CIRCLE	BOLT SIZE	NUMBER OF BOLTS
330-3036	1	5-1/2"	8-5/8"	7"	3/4"	8
330-3105	2	5-11/16"	7-7/16"	6-1/2"	1/2"	12
330-3106	1	6"	8-1/4"	7"	5/8"	8
330-3107	1	5-5/8"	8-1/2"	7"	3/4"	8
330-3108	1	4"	5-9/16"	4-3/4"	7/16"	8
330-3109	1	4-1/2"	6-1/8"	5-5/16"	1/2"	8
330-3110	1	5-3/8"	7-3/8"	6-3/8"	9/16"	8
330-3111	1	5-3/4"	8-3/8"	7"	5/8"	8
330-3112	1	4"	6-7/16"	5-1/2"	5/8"	8
330-3113	2	4-1/2"	6-1/16"	5-1/4"	1/2"	12
330-3114	2	5"	6-1/2"	5-11/16"	7/16"	12
330-3115	2	4-1/4"	6-1/8"	5-1/4"	1/2"	12

DRIVE AXLE FLANGE GASKET APPLICATIONS

STEMCO PART NO.	SAME AS	PART NO.	APPLICATION
330-3036	-	-	Eaton 38,000# tandem. IHC-RA355.
330-3105	Euclid	E 2340	All Meritor Standard Q wheel ends except some SQHP.
	Meritor	2208Z416	
330-3106	White	476375	All Meritor Standard R wheel ends.
	Euclid	E 2341	
330-3107	Meritor	2208W412	All E18, E19, E38D & 44D series.
	Euclid	E 2431	
330-3108	Euclid	E 2432	Eaton 15 series.
330-3109	Euclid	E 2433	Eaton 30000# Tandem Meritor Standard SFHD & H wheel ends Eaton 17000# singles.
330-3110	Euclid	E 2434	Mack 38000# Tandem axles.
330-3111	Euclid	E 2435	All Meritor Standard R wheel ends, STD series, SUD series, U wheel ends, SFD 4600, SQHP, SQ100, SQ100P, 4640 Eaton.
	Meritor	2208W413	
	Kenworth	K134 - 171	
330-3112	White	453157	IHC 34000# - RA 351 axles.
330-3113	Euclid	E 2436	Meritor Standard L-172 Eaton 18 series and 34D.
330-3114	Euclid	E 2437	Meritor Standard L wheel ends except L-172, SJHD, SLHD.
	Euclid	E 2438	
	Meritor	2208Z422	
330-3115	White	467836	
330-3115	G.M.C.	236Z158	Fits 1965 - 1974 G.M.C. - Chev. 18000# Single or 34000# Tandem Eaton 14569.



UNCOMPROMISING WHEEL END PROTECTION

Commercial trucking can put enormous demands on wheel end components. Built to withstand the harshest conditions, the STEMCO® Defender™ hub cap is made from an ultra-durable, corrosion-free, composite material and is available with a permanently bonded, leak-proof window.

100% Corrosion-Free Hub Cap

Composite materials with stainless-steel reinforcement inserts will not corrode.

Protection Against Water and Contamination

Available with Sentinel® Technology to reduce contaminant build-up on hub windows, allowing for accurate lube-level readings.

No More Window Leaks

Exceptional chemical bond between the hub cap body and window for strength and no leaks.

Superior Sealing Performance

Offset sealing boss on flange provides extremely durable sealing between hub cap and hub.

Longer-Life Wheel End

Magnetic plug option pulls abrasive material away from critical components.

DURABLE CONSTRUCTION. INNOVATIVE DESIGN.

BUILT FOR ROADWAY SAFETY AND EQUIPMENT LONGEVITY

Permanent Window Bond

- Ultrasonically welded for maximum contaminant exclusion

Sealing Ring

- Added line of defense against contaminants

Reinforcement Insert

- Offers structural integrity even under the most grueling conditions

Corrosion-Free Materials

- Composite materials reinforced with stainless-steel inserts make for a durable and long-lasting hub cap that is extremely resistant to impact and corrosion.

OPTIONS

Window Options

- Oil
- Grease

With or Without Side Fill Plug

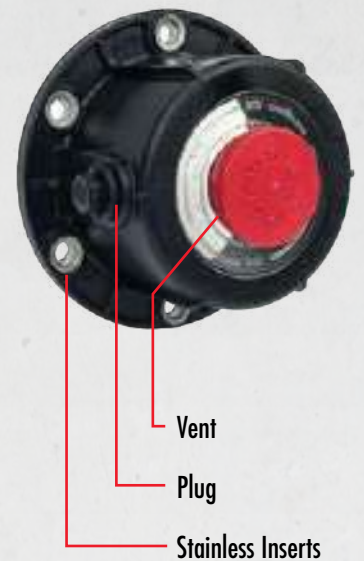
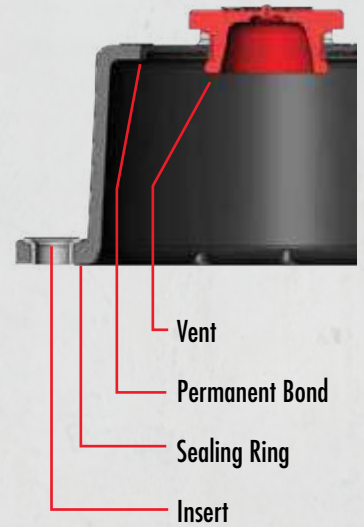
- Plug adds convenience and efficiency for reduced maintenance downtime

Seamless Integration

- Designed for easy Hubodometer® bracket installation.
- Integrates seamlessly with other STEMCO wheel end products like the Hubodometer, DataTrac® Pro, and TracBat®.

Sentinel® Technology

- Contaminant-resistant, tamper-free
- Removable plugs (red plug or ESP)



DEFENDER™ HUB CAP CROSS REFERENCE

SKF CROSS REFERENCE	STEMCO CROSS REFERENCE	DEFENDER PART NO.	DESCRIPTION	QUANTITY
1612	300-4024	360-4024	Red Rubber Plug "FF"- Bulk	20
1612	340-4024	361-4024	Red Rubber Plug "FF"	1
1612	303-4024	363-4024	Red Rubber Plug - "FF" - w/ side fill - Bulk	20
1612	343-4024	364-4024	Red Rubber Plug - "FF" - w/ fill plug	1
1612	356-4024	366-4024	Sentinel Oil - "FF" w/ magnetic fill plug - Bulk	20
1612	356-4024	367-4024	Sentinel Oil - "FF" w/ magnetic fill plug	1
1612	358-4024	369-4024	Sentinel Grease "FF"	1
1643	300-4009	360-4009	Red Rubber Plug "N"- Bulk	20
1643	340-4009	361-4009	Red Rubber Plug "N"	1
1643	303-4009	363-4009	Red Rubber Plug "N" w/ side fill - Bulk	20
1643	343-4009	364-4009	Red Rubber Plug "N" w/ fill plug	1
1643	356-4009	366-4009	Sentinel Oil - "N" w/ magnetic fill plug - Bulk	20
1643	356-4009	367-4009	Sentinel Oil - "N" w/ magnetic fill plug	1
1643	358-4009	368-4009	Sentinel Grease "N"- Bulk	20
1643	358-4009	369-4009	Sentinel Grease "N"	1
1696	340-4195	360-4195	Red Rubber Plug "P"- Bulk	20
1696	340-4195	361-4195	Red Rubber Plug "P"	1
1696	343-4195	363-4195	Red Rubber Plug "P" w/ side fill - Bulk	20
1696	343-4195	364-4195	Red Rubber Plug "P" w/ fill plug	1
1696	356-4195	366-4195	Sentinel Oil - "P" w/ magnetic fill plug - Bulk	20
1696	356-4195	367-4195	Sentinel Oil - "P" w/ magnetic fill plug	1
1696	358-4195	368-4195	Sentinel Grease "P"- Bulk	20
1696	358-4195	369-4195	Sentinel Grease "P"	1

DataTrac® PRO



PROFITABILITY THROUGH PRECISION

Programmable to the exact dimensions of over 2,500 tire models, the DataTrac® Pro hubodometer and programmer set the standard for precise mileage counting, enabling simplified inventory, more timely maintenance and unparalleled billing accuracy.

Maintenance Scheduling

Perform maintenance based on actual mileage rather than time between services, reducing the potential for unnecessary downtime or component failures.

Simple Data Retrieval

Large, easy-to-read LCD display automatically positions numbers upright for easy mileage verification. Optional trip and life readings.

Compact Size

Easy to mount and dismount tires without removing unit from the wheel.

Durable

No moving parts provides the ultimate in reliability in the most demanding applications. Unique serial numbers provide extra security and data control.

DATATRAC[®] PRO

- Scheduling maintenance
- Validating guarantees
- Determining lease charges
- Calculating costs-per-mile

TIRE MAKE	TIRE MODEL	TIRE SIZE	STEMCO MECHANICAL HUBO MILES / KM	VEEDER-ROOT P/N MILES / KM	DATATRAC PRO MILES / KM	*DATATRAC PRO REV - MILES / KM
Bridgestone	M726	11R22.5	650-0598 / 650-0537	777717-494 / 777727-306	600-5499 / 600-4310	499 / 310
Bridgestone	M726	11R24.5	650-0584 / 650-0528	777717-475 / 777727-294	600-5476 / 600-4296	476 / 296
Bridgestone	M726	255/70R22.5	650-0622 / 650-0549	777717-572 / 777727-350	600-5564 / 600-4351	564 / 351
Bridgestone	M726	285/75R24.5	650-0595 / 650-0537	777717-494 / 777727-306	600-5499 / 600-4310	499 / 310
Bridgestone	M726	295/75R22.5	650-0605 / 650-0541	777717-510 / 777727-316	600-5514 / 600-4320	514 / 320
Bridgestone	R194	11R22.5	650-0605 / 650-0541	777717-514 / 777727-316	600-5513 / 600-4319	513 / 319
Bridgestone	R194	11R24.5	650-0593 / 650-0534	777717-490 / 777727-306	600-5489 / 600-4304	489 / 304
Bridgestone	R194	255/70R22.5	650-0627 / 650-0552	777717-572 / 777727-359	600-5580 / 600-4361	580 / 361
Bridgestone	R194	285/75R24.5	650-0605 / 650-0541	777717-514 / 777727-316	600-5513 / 600-4319	513 / 319
Bridgestone	R194	295/75R22.5	650-0612 / 650-0545	777717-525 / 777727-326	600-5529 / 600-4328	529 / 328

Goodyear	G104	255/70R22.5	650-0627 / 650-0552	777717-572 / 777727-359	600-5579 / 600-4360	579 / 360
Goodyear	G124	11R22.5	650-0601 / 650-0537	777717-500 / 777727-310	600-5505 / 600-4314	505 / 314
Goodyear	G124	255/70R22.5	650-0626 / 650-0549	777717-572 / 777727-359	600-5572 / 600-4356	572 / 356
Goodyear	G167	11R22.5	650-0598 / 650-0537	777717-500 / 777727-310	600-5501 / 600-4311	501 / 311
Goodyear	G167	295/75R22.5	650-0605 / 650-0541	777717-514 / 777727-326	600-5515 / 600-4320	515 / 320
Goodyear	G314	11R22.5	650-0605 / 650-0541	777717-510 / 777727-312	600-5512 / 600-4318	512 / 318
Goodyear	G314	11R24.5	650-0593 / 650-0534	777717-484 / 777727-300	600-5488 / 600-4303	488 / 303
Goodyear	G314	285/75R24.5	650-0605 / 650-0541	777717-510 / 777727-316	600-5514 / 600-4320	514 / 320
Goodyear	G314	295/75R22.5	650-0613 / 650-0545	777717-520 / 777727-326	600-5529 / 600-4328	529 / 328
Goodyear	G362	11R24.5	650-0584 / 650-0528	777717-475 / 777727-300	600-5478 / 600-4297	478 / 297
Goodyear	G362	285/75R24.5	650-0598 / 650-0537	777717-500 / 777727-310	600-5501 / 600-4311	501 / 311
Goodyear	G362	295/75R22.5	650-0605 / 650-0541	777717-514 / 777727-326	600-5515 / 600-4320	515 / 320
Goodyear	G372	11R24.5	650-0584 / 650-0528	777717-475 / 777727-297	600-5476 / 600-4296	476 / 296
Goodyear	G372	285/75R24.5	650-0598 / 650-0537	777717-494 / 777727-310	600-5497 / 600-4309	497 / 309
Goodyear	G372	295/75R22.5	650-0605 / 650-0541	777717-510 / 777727-316	600-5512 / 600-4318	512 / 318

Michelin	XDA2	11R22.5	650-0598 / 650-0537	777717-500 / 777727-310	600-5502 / 600-4312	502 / 312
Michelin	XDA2	11R24.5	650-0587 / 650-0528	777717-475 / 777727-294	600-5480 / 600-4298	480 / 298
Michelin	XDA2	255/70R22.5	650-0625 / 650-0549	777717-572 / 777727-350	600-5566 / 600-4352	566 / 352
Michelin	XDA2	275/80R22.5	650-0605 / 650-0541	777717-510 / 777727-326	600-5519 / 600-4323	519 / 323
Michelin	XDA2	275/80R24.5	650-0598 / 650-0537	777717-500 / 777727-310	600-5502 / 600-4312	502 / 312
Michelin	XZA2	11R22.5	650-0601 / 650-0539	777717-510 / 777727-316	600-5510 / 600-4317	510 / 317
Michelin	XZA2	11R24.5	650-0591 / 650-0532	777717-484 / 777727-300	600-5485 / 600-4302	485 / 302
Michelin	XZA2	275/80R22.5	650-0610 / 650-0545	777717-520 / 777727-326	600-5526 / 600-4327	526 / 327
Michelin	XZA2	275/80R24.5	650-0601 / 650-0539	777717-510 / 777727-316	600-5509 / 600-4316	509 / 316
Michelin	XZE	255/70R22.5	650-0626 / 650-0549	777717-572 / 777727-359	600-5574 / 600-4357	574 / 357

* Indicates the revolutions per mile or kilometer used to program the DataTrac[®] Pro from the Program Part screen.

* DataTrac[®] p/n 600-1xxx used for miles and 600-0xxx used for kilometers contain trip. Follow conversion from DataTrac[®] in the table above.

* Mechanical hubodometers are designated for use in a "range" of RPM or RPK, not a "specific" RPM or RPK. For "exact" revolutions, use DataTrac[®] Pro.

PRODUCT	PART NO.
DataTrac [®] Pro	600-9999
Programmer	801-6000

CALIBRATION AND INSTALLATION

STEMCO calibrations are based at the mid-life of the tire tread (not the depth of new tire tread), one more reason we can guarantee +/-2% accuracy over the life of the tire.

All that is needed for proper calibration is the tire make, model and size. Refer to the chart for some of the most popular tires.

Hub caps, hub cap mounts and universal brackets are available for all popular makes and models. For quick and easy installation, use any of three different options: (1) aluminum hub cap with hubo window, (2) Grilamid[®] Hubodometer hub cap or (3) bracket.

WARRANTY

STEMCO DataTrac[®] Pro is warranted for 500,000 miles or 4 years when installed in accordance with its specifications.



HUBODOMETER®



SUCCESSFUL BUSINESSES RUN ON INFORMATION

Getting ahead in the trucking industry requires accurate, reliable information, and nothing delivers it like the STEMCO® Hubodometer®. Featuring an innovative design, built with military-grade materials and backed by a confidence-inspiring warranty, the Hubodometer helps ensure productivity and profitability through superior data.

Multiple Uses

Schedule maintenance, determine lease charges, validate guarantees, calculate costs per mile, and more.

Versatile

Hubodometers are calibrated to perform on over 2,500 specific tire models and sizes.

Accurate

Spring-loaded counterweight helps eliminate spin when tires hit bumps and potholes, for greater accuracy.

Preset Options

Hubodometers can be preset to collect customized mileage data.

Durable

High-quality components, rugged construction and innovative design stand up to demanding road and weather conditions.

Maintenance Efficiency

Better tracking enables optimized maintenance scheduling and adherence to best practices.

Mileage Limits

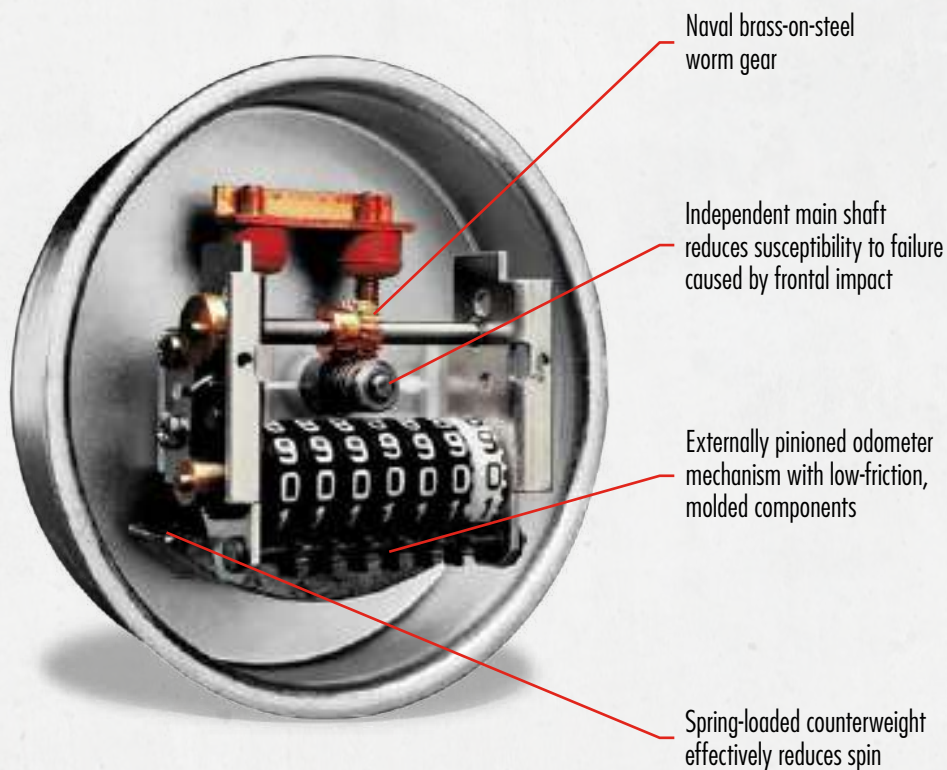
Highly accurate mileage tracking allows rental and lease fleets to operate with complete confidence.

Guaranteed

Backed by warranty, ensuring accuracy for up to 500,000 miles.

CONSTRUCTION AND DESIGN

- Main shaft is independent of front cover, greatly reducing failure caused by frontal impact.
- Unit is sealed in a moisture-controlled environment for added durability.
- Nine permanently lubricated bronze bearings reduce wear and ensure long life.
- Worm drive rotates parts less frequently, reducing wear.
- Rugged construction. Naval brass on steel. No plastic drive components.
- Meets California and New Zealand requirements.



CALIBRATION AND INSTALLATION

STEMCO calibrations are based on the mid-life depth of tire tread (not the depth of new tire tread); one more reason we can guarantee $\pm 2\%$ accuracy over the life of the tire.

For proper calibration of any STEMCO Hubodometer, only tire make, model and size are required. With this information and our Tire Classification catalog (which includes radials and low-profile tires), any user can quickly determine the part number for the correct Hubodometer.

STEMCO also offers a preset Hubodometer program at a nominal cost. Preset orders are shipped within 3 working days from our warehouse in Longview, Texas. For more information, contact STEMCO Customer Service.

WARRANTY

The STEMCO Hubodometer is warranted for 500,000 miles when installed in accordance with its specifications. See a STEMCO distributor for details.

HUBODOMETER® MOUNTS

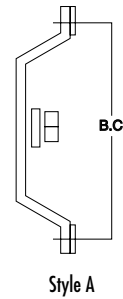
POPULAR HUBODOMETERS® (IN POPULARITY ORDER)

PART #	RPM	BLANK TENTHS PART #	PART #	RPKM
650-0610	522	650-0611	650-0537	310
650-0598	500	650-0600	650-0532	300
650-0613	532	650-0614	650-0539	315
650-0601	504	650-0602	650-0545	324
650-0605	513	650-0606	650-0541	320
650-0587	480	650-0588	650-0549	357

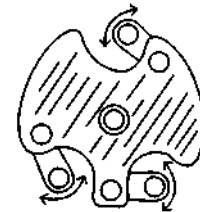


HUBODOMETER® BRACKETS

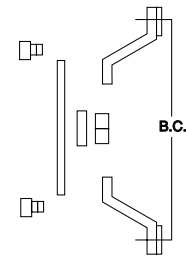
PART #	BOLT CIRCLE	STUD SIZE	HEIGHT	PART #	STYLE
6100001	5 1/4	1/2	1 11/16		A
6100002	5 1/2	5/8	1 11/16		A
6100003	6 3/8 – 6 1/2	1/2 – 9/16	1 11/16		A
6100005	7 1/4	9/16	1 11/16		A
6100006	7	5/8	1 11/16		A
6100007	7	3/4	1 11/16		A
6100008	7 1/2	5/8	1 9/16		A
6100009	7 1/2	5/8	3 11/16		A
6100010	8 5/8	5/8	5 7/16	Mack Mount	A
6100011	5 1/2 – 7 1/2	1/2	1 3/4	Universal Mount	
6100013	5 1/2	7/16	1/4		A
6100014	7 5/8	5/8	4 3/8		A
6100017	5 7/32	5/8	1 11/16		A
6100022	3 9/16	1/2	1/2	Strap and Lock Assembly	
6100023	3 15/16	1/2	1		A
6100024	5 1/2	5/16 – 18 thd	4 1/2	Hardware for Berg Cap	
6100025	4 1/2 – 9	3/16	1 11/16	TMK-90 Truck Mount	
6100028	5 1/2	5/16	5	Sentinel and PSI Caps – 3 Leg, AERIS N-Spindle	
6100029	6 3/4	5/16	6	Sentinel, PSI, AirGo Caps – 3 Leg, AERIS P-Spindle	
6100032	7 1/4	9/16	1 1/2		A
6100058	6 1/2	1/2	4 1/2		A
6100059	4	9/16	1 1/2	For Golf Carts	A
6100065	5 1/2	5/16	3 1/2	Fits 4009 Hubcap	A
6100066	6 1/2	5/8	5 1/4		A
6100079	7 1/4	3/4	1 11/16		A
6100084	6 3/4	5/16	5	Sentinel and PSI Caps – 3 Leg, f/4195	
6100085	5 1/2	5/16	4	PSI Caps	A
6100090	N/A	N/A	N/A	Mounts on Top of Window Ring	
6100093	262 mm (10.31")	M10	N/A	Meritor Planetary Axle-DTrac Only	
6100094	246 mm (9.70")	M10	N/A	MAN Planetary Axle-DTrac Only	
6410023	N/A	N/A	N/A	Refurb Kit f/MAN Bracket	



Style A



Style C



Universal Mount

HUBODOMETER® HUB CAPS – FOR TRAILER INSTALLATIONS

HUB CAP INCLUDES GASKET	GASKET PART #	BOLT CIRCLE DIAMETER	# OF HOLES	BOLT DIAMETER	ALUMINUM EQUIVALENT
640-0001*	641-0005	5-1/2	6	5/16	347-4009
640-0002*	641-0017	5-1/2	5	5/16	347-4013
640-0003*	330-3077		6-1/4 x 8 UN(M)		347-4075

*Vented



640-0001



640-0003

MOISTURE EJECTOR



AUTOMATICALLY ELIMINATE AIR SYSTEM SLUDGE

The STEMCO Moisture Ejector provides a proven, inexpensive way to help assure the constant removal of oil, carbon, dirt, sludge and water from the air system, eliminating the daily chore of purging wet tanks.

Operates Continuously

High pressure air continually purges water, oil and solid contaminants from the air system.

Activates Automatically

Engages with a one-second blast of air every time the air compressor governor cuts in and out.

Simple Installation

Installs at the wet or primary reservoir drain port with N.T.P. nipple included with the valve.

Easy to Maintain

Increase effectiveness and longevity with simple cleaning.

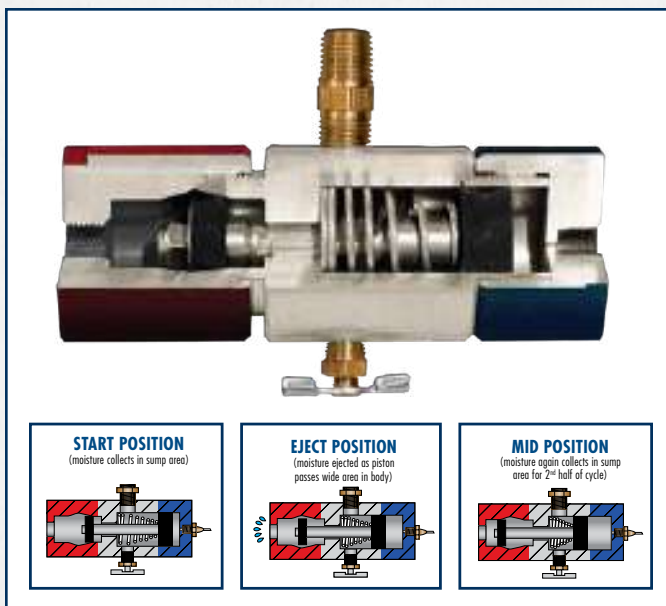
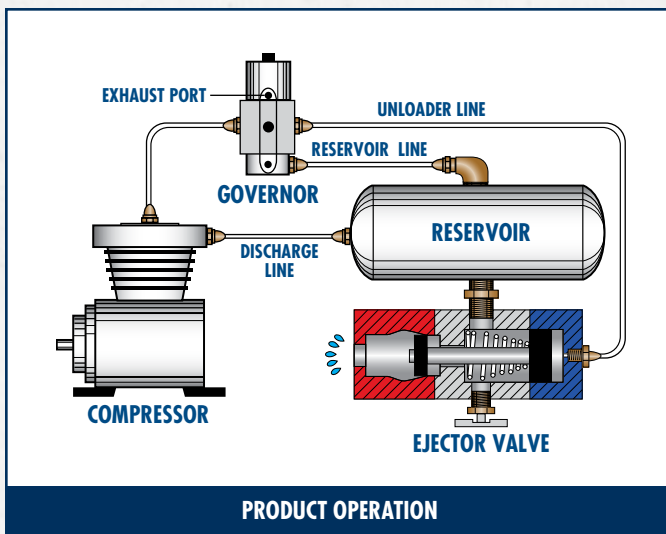
Reliable Operation

Built to perform reliably for up to five years.

AUTOMATICALLY ELIMINATE AIR SYSTEM SLUDGE

HOW IT WORKS

- The STEMCO Moisture Ejector is connected at the air tank drain (see installation instructions).
- Actuating end connects to the governor unloader port or brake actuating line.
- Engages automatically each time the air compressor “cuts in” and “cuts out” when connected to the governor unloader port.
- Air tank pressure furnishes ejection power
- Up to three ounces (or 5.42 cubic inches) of liquid material can be ejected each time the ejector operates
- Powerful valve action also ejects foreign matter, carbon compounds, and alkali scales which form in air systems.



SIMPLE INSTALLATION

The STEMCO Moisture Ejector is most commonly installed at the wet or primary reservoir drain port. Simply remove manual drain valve and install STEMCO Moisture Ejector with special 1/4" N.T.P. nipple (included with the valve*). Recommended actuator line is 1/4" O.D. tubing which connects from the actuating port of the STEMCO Moisture Ejector to the unloader port of the governor.

*DO NOT remove the threaded nipple supplied with the ejector or change the diameter of the orifice in the actuating end of the unit. The double acting ejector is “balanced” and must have the special nipple and proper orifice size to function properly.

EASY TO MAINTAIN

To assure the proper operation and longevity of the STEMCO Moisture Ejector, the compartment on the blue actuating end of the unit should be cleaned out at least once in the fall of the year.

To clean, simply remove the actuating airline fitting (blue end) and “blow out” with an air hose and nozzle or remove the blue actuating end cap and wipe clean.

STEMCO MOISTURE EJECTOR

DESCRIPTION	PART #
Ejector w/Threaded End Cap	900-1062
Special-Mounting Nipple (1/4" N.P.T.)	900-1069
Ejector Rebuild Kit	900-1080



UNIVERSAL AXLE TOOL



QUICK, ACCURATE INSTALLATIONS

Recognizing that most seal failures can be traced to improper installation, STEMCO has designed its Universal Axle Tool to make the procedure simpler, faster and more consistent, while minimizing the risk of costly spindle damage.

Single Body. Interchangeable Heads.

The STEMCO Universal Tool saves space and is easy to use.

Built to Last

Heavy duty steel body and induction-hardened heads provide years of useful service.

Easier Handling

Each Universal Tool has a sturdy handle for easier handling of the tool body.

Simplifies Installations

Simplifies Standard, Grit Guard®, and Guardian® ring installation for quicker turnarounds.



UNIVERSAL AXLE TOOLS BY GUARDIAN® SEAL NUMBER

GUARDIAN® SEAL	INNER BEARING CONE NUMBER	INNER BEARING CONE ID OR SPINDLE OD	UNIVERSAL AXLE TOOL HEAD
307-0713 ¹	663	3.250	555-5100
307-0723 ¹	HM518445	3.500	555-5023
307-0743 ¹	HM218248	3.542	555-5039
307-0744	665A	3.375	555-5069
308-0836 ¹	39581	2.250	555-5062
	HM212044,557A	2.375	555-5061
	HM212049,-X	2.625	555-5098
	HM212047	2.500	555-5066
308-0853	641/HM212049	2.625	555-5060
	H715345	2.812	555-5070
308-0855	641	2.625	555-5060
308-0856	H715345	2.812	555-5070
308-0863	39581	2.250	555-5062
	45284	2.000	555-5064
308-0864 ¹	6461A	3.000	555-5007
308-0866	JM207049	2.165	555-5088
	JM205149	1.968	555-5089
308-0870	JF7049A	2.756	555-5297
309-0903 ¹	580/582	3.250	555-5072
309-0904 ¹	663/HM516449,-C	3.250	555-5072
	HM516449A	3.250	555-5073
309-0912	47685/47686	3.250	555-5031
	47678/5760	3.000	555-5074

GUARDIAN® SEAL	INNER BEARING CONE NUMBER	INNER BEARING CONE ID OR SPINDLE OD	UNIVERSAL AXLE TOOL HEAD
309-0915	47685/47686	3.250	555-5031
	47678	3.000	555-5074
309-0935	33287	2.875	555-5011
	33281	2.812	555-5002
309-0948	687/780	4.000	555-5004
309-0957	495AX	3.000	555-5074
	33287	2.875	555-5011
309-0960	594A	3.750	555-5076
	598A	3.625	555-5071
309-0961	580/582/663A	3.250	555-5072
309-0964	594/594A	3.750	555-5076
309-0965	595	3.250	555-5072
	598	3.625	555-5071
309-0970	683XA/683	3.750	555-5076
	681A	3.625	555-5071
309-0973 ¹	594/594A	3.750	555-5076
	598/598A	3.625	555-5071
381-0148 ²	H414245A	2.688	555-5291
381-0150 ²	HM212047	2.500	555-5295
391-0138 ²	32219	3.740	555-5292
391-0139 ²	32216	3.150	555-5296
391-9066 ²	594A	3.750	555-5076

Use Universal Tool Body 555-0001 with 555 Series Tool Heads.

¹ HP Design

² SS4 Seal

UNIVERSAL AXLE TOOLS BY AXLE/DEFLECTOR RING NUMBER

AXLE RING	SEAL SET	INNER BEARING CONE NUMBER	INNER BEARING CONE ID OR SPINDLE OD	UNIVERSAL AXLE TOOL HEAD
310-1007	392-9007	663, HM516449	3.250	555-5072
	372-7046	28995	2.469	555-5052
	382-8018	45284	2.000	555-5064
310-1008	382-8044	45284	2.000	555-5064
	382-8066	JM207049	2.165	555-5088
	382-8066	JM205149	1.968	555-5089
310-1009	382-8052	6386A	2.625	555-5060
310-1012	392-9012	47686	3.250	555-5031
	392-9012	5760,47678	3.000	555-5074
	382-8001	6379	2.562	555-5014
310-1013	382-8001	6386, 6389	2.625	555-5060
	None	663	3.250	555-5100
310-1017	382-8017	39581	2.250	555-5062
	392-9018	495AX	3.000	555-5074
310-1018	392-9057	495AX	3.000	555-5074
	392-9057	33287	2.875	555-5011
310-1022	372-7022	593	3.500	N/A
310-1023	372-7024	749, 749S	3.347	555-5024
	None	HM518445	3.500	555-5023

AXLE RING	SEAL SET	INNER BEARING CONE NUMBER	INNER BEARING CONE ID OR SPINDLE OD	UNIVERSAL AXLE TOOL HEAD
310-1026	None	595	3.250	555-5072
	None	598	3.625	555-5071
310-1027	None	663	3.250	555-5031
310-1028	382-8028	756A	3.125	555-5067
	382-8045	756A	3.125	555-5067
310-1032	382-8032	HM212049	2.625	N/A
310-1034	382-8071	HM212047	3.625	555-5066
	372-7006	567	2.875	555-5011
	382-8027	39581	2.250	555-5062
310-1036	382-8036	557A, HM212044	2.375	555-5061
		HM212047	2.500	555-5066
	382-8063	HM212049,-X	2.625	555-5098
		39581	2.250	555-5062
310-1037	382-8064	6461A	3.000	555-5007
	None	665A	3.375	555-5069
310-1038	382-8039	HM212049, 641	2.625	N/A
310-1041	382-8060	5760, 6461	3.000	N/A
310-1043	372-7015	759	3.500	555-5023

Use Universal Tool Body 555-0001 with 555 Series Tool Heads.

UNIVERSAL AXLE TOOLS

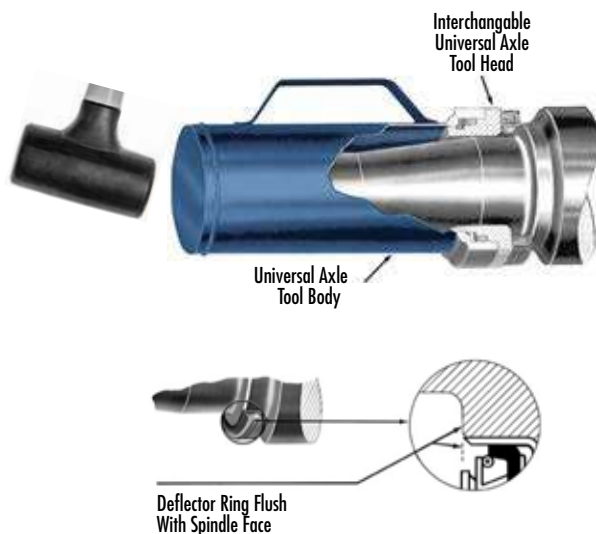
INSTALLATION TOOLS

UNIVERSAL AXLE TOOLS BY AXLE/DEFLECTOR RING NUMBER

AXLE RING	SEAL SET	INNER BEARING CONE NUMBER	INNER BEARING CONE ID OR SPINDLE OD	UNIVERSAL AXLE TOOL HEAD
310-1045	None	760	3.562	555-5079
310-1048	None	HM218248	3.542	555-5039
310-1050	382-8010	39578, 4595	2.125	N/A
310-1051	382-8011	559, 3982	2.500	N/A
	382-8062	39585	2.500	N/A
310-1052	382-8009	45284, 45285	2.000	555-5036
310-1053	392-9032	580	3.250	555-5072
	392-9032	575	3.000	555-5074
310-1057	372-7003	663	3.250	555-5031
310-1061	382-8005	3778	1.875	555-5001
310-1062	392-9035	33281	2.812	555-5002
	392-9035	33287	2.875	555-5011
310-1063	392-9036	33281	2.812	555-5002
310-1064	372-7049	JM511946	2.557	555-5055
	392-9038	3984	2.625	555-5097
310-1066	392-9034	6580	3.500	555-5023
	392-9034	6559	3.250	555-5072
310-1079	392-9081	598A	3.625	555-5071
310-1088	None	663, HM516449	3.250	555-5072
310-1089	392-9053	782	4.125	555-5016
	382-8053	641, HM212049	2.625	555-5060
310-1093	382-8053	H715345	2.812	555-5070
	382-8056	H715345	2.812	555-5070
	382-8056	641	2.625	555-5060
	None	580, 582	3.250	555-5072
	None	594, 594A	3.750	555-5076
310-1103	392-9062	760	3.562	555-5079
310-1104	392-9063	387AS, 7451929	2.250	555-5062
	392-9063	188931	2.265	555-5054
310-1107	392-9066	594A	3.750	555-5076
310-1111	None	598A, 598	3.625	555-5071
	None	594, 594A	3.750	555-5076
	None	683	3.750	555-5076
	None	681A	3.625	555-5071

AXLE RING	SEAL SET	INNER BEARING CONE NUMBER	INNER BEARING CONE ID OR SPINDLE OD	UNIVERSAL AXLE TOOL HEAD
310-1117	None	495AX	3.000	555-5074
	None	47686	3.250	555-5031
310-1130	372-7062	592A, 593	3.500	555-5023
310-1132	383-8139	663/641		
	383-8239	HM212011/ HM212049	2.625	N/A
310-1233	392-9111	594/593X	3.750	555-5076
315-1501	392-9099	47685, 47686	3.250	555-5031
	392-9099	47678	3.000	555-5074
315-1502	392-9087	681A	3.625	555-5071
	392-9087	683	3.750	555-5076
315-1503	392-9097	594A, 598A	3.625	555-5071
	372-7091	749, 749S	3.347	555-5024
	372-7099	HM518445	3.500	555-5023
315-1504	372-7097	HM218248	3.542	555-5039
315-1506	372-7096	787	4.125	555-5016
315-1507	372-7098	663	3.250	555-5100
	392-9092	598	3.625	555-5071
315-1508	392-9096	598	3.625	555-5071
	392-9096	595	3.250	555-5072
315-1509	392-9095	582, 663A	3.250	555-5072
315-1510	372-7095	665A	3.375	555-5069
315-1511	392-9094	580, 582	3.250	555-5072
315-1515	392-9112	663, HM516449	3.250	555-5072
315-1516	392-9089	687, 780	4.000	555-5004
315-1517	392-9088	594, 594A	3.750	555-5076
315-1519	392-9130	HM516449A	3.250	555-5073
315-1525	392-9131	598A	3.625	555-5071
	392-9131	594A	3.750	555-5076
315-1530	392-9132	594A	3.750	555-5076
	392-9132	598A	3.625	555-5071

Use Universal Tool Body 555-0001 with 555 Series Tool Heads.



UNIVERSAL AXLE TOOLS

UNIVERSAL AXLE TOOLS BY TOOL HEAD NUMBER

UNIVERSAL AXLE TOOL HEAD NO.	INNER CONE	GUARDIAN® SEAL AXLE RING OR DEFLECTOR RING	UNIVERSAL AXLE TOOL HEAD NO.	INNER CONE	GUARDIAN® SEAL AXLE RING OR DEFLECTOR RING	UNIVERSAL AXLE TOOL HEAD NO.	INNER CONE	GUARDIAN® SEAL AXLE RING OR DEFLECTOR RING
555-5001	3778	310-1061	555-5061	HM212044 557A	308-0836 310-1036	555-5073	HM516449A	315-1519
555-5002	33281	309-0935 310-1062	555-5062	39581 387AS 7451929	308-0836 308-0863 310-1017 310-1036 310-1068 310-1104	555-5074	47678 5760 495AX 42688 575	309-0912 309-0957 310-1012 310-1018 310-1053 310-1117 315-1501
555-5004	687 780	309-0948 315-1516 310-1067			308-0863 310-1008 310-1036		309-0960 309-0964 309-0970 309-0973 310-1093 310-1107 310-1111 310-1233 315-1502 315-1517 315-1525 315-1530 391-9066	
555-5007	6461A	308-0864 310-1026 ¹ 310-1037	555-5064	45284	308-0836 310-1034 310-1036	555-5076	594A 594 693 683XA 683 598A	309-0966 309-0964 309-0970 309-0973 310-1093 310-1107 310-1111 310-1233 315-1502 315-1517 315-1525 315-1530 391-9066
555-5011	33287 567	309-0935 309-0957 310-1036 310-1062	555-5066	HM212047	307-0744 310-1037 310-1095 315-1510		310-1045 310-1095 310-1103	310-1045 310-1095 310-1103
555-5014	6379	310-1013	555-5067	756A	308-0853 308-0856 310-1093	555-5079	760	310-1045 310-1095 310-1103
555-5016	782, 787	310-1089 315-1506	555-5069	665A 758	309-0960 309-0965 309-0970 309-0973 310-1026 310-1028 310-1079 310-1111 315-1502 315-1508 315-1525 315-1530	555-5081		310-1007
555-5023	HM518445 759 6580 592A 593	307-0723 310-1023 310-1043 310-1066 310-1130 315-1503	555-5070	H715345	308-0856 309-0965 309-0970 309-0973 310-1026 310-1028 310-1079 310-1111 315-1502 315-1508 315-1525 315-1530	555-5088	JM207049	308-0866 310-1008
		555-5024				749 749S	310-1005 315-1503	555-5089
555-5031	47685 47686 663	309-0912 309-0915 310-1012 310-1027 310-1057 310-1091 310-1117 315-1501	555-5071	598 598A 681A	308-0856 309-0903 309-0904 309-0961 309-0965 310-1007 310-1026 310-1028 310-1053 310-1066 310-1088 310-1093 315-1508 315-1509 315-1511 315-1515	555-5098	HM212049,X	308-0836 310-1036
		555-5036				45284, 45285	310-1052	555-5100
555-5039	HM218248	307-0743 310-1048 315-1504	555-5072	H715345 580 582 663-A, HM516449,-A 595 598 6559	308-0856 309-0903 309-0904 309-0961 309-0965 310-1007 310-1026 310-1028 310-1053 310-1066 310-1088 310-1093 315-1508 315-1509 315-1511 315-1515	555-5291	H414245A	381-0148
555-5052	28995	310-1008				555-5292	32219	391-0138
555-5054	188931	310-1068 310-1104	555-5060	641 HM212049 6386A 6386 6389	308-0853 308-0855 310-1009 310-1013 310-1093	555-5295	HM212047	381-0150
555-5055	JM511946	310-1064				555-5296	32216	391-0139
555-5060	641 HM212049 6386A 6386 6389	308-0853 308-0855 310-1009 310-1013 310-1093	555-5072	H715345 580 582 663-A, HM516449,-A 595 598 6559	308-0856 309-0903 309-0904 309-0961 309-0965 310-1007 310-1026 310-1028 310-1053 310-1066 310-1088 310-1093 315-1508 315-1509 315-1511 315-1515	555-5297	JF7049A	308-0870

¹ This tool is used with the 310-1026 ring ONLY on Rogers Bros. Spindle R3329. For other options with the 310-1026 ring see 555-5071 and 555-5072.

FLEET HUB TOOLS

INSTALLATION TOOLS

FLEET HUB TOOLS BY STANDARD/GRIT GUARD® OIL SEAL NUMBER

OIL SEAL	HUB TOOL	HUB-SEAL SETS
320-2001	551-5398	392-9001, 392-9062
320-2007	551-5326	372-7045
320-2009	551-5356	392-9019, 392-9081
320-2012	551-5405	392-9012
320-2017	551-5352	382-8017
320-2018	551-5351	372-7046, 382-8018
320-2021	551-5385	392-9021
320-2022	551-5381	382-8010
320-2023	551-5401	372-7020, 372-7022, 372-7062, 372-7099, 382-8060
320-2028	551-5385	382-8028, 392-9043
320-2029	551-5386	372-7018, 382-8029, 392-9018
320-2031	551-5388	372-7055, 372-7056, 382-8011, 382-8025
320-2032	551-5388	372-7009, 382-8032
320-2034	551-5387	382-8034
320-2036	551-5346	382-8036
320-2039	551-5395	382-8023, 382-8039
320-2041	551-5398	372-7004, 372-7015, 372-7017, 382-8045
320-2046	551-5388	372-7005, 372-7006
320-2050	551-5347	382-8009
320-2051	551-5388	372-7008
320-2056	551-5302	382-8005
320-2057	551-5353	392-9035, 392-9036
320-2058	551-5303	392-9033
320-2059	551-5317	See 392-9053 Remarks
320-2061	551-5356	392-9034
320-2072	551-5308	372-7048, 392-9038
320-2077	551-5362	392-9063
320-2086	551-5311	382-8001
320-2091	551-5312	See 392-9045 Remarks
320-2096	551-5390	392-9007

OIL SEAL	HUB TOOL	HUB-SEAL SETS
320-2097	551-5400	392-9089
320-2099	551-5317	392-9053
320-2102	551-5318	392-9099
320-2104	551-5383	392-9057
320-2105	551-5351	382-8044
320-2106	551-5320	392-9131
320-2109	551-5313	372-7003, 372-7098, 392-9032
320-2110	551-5412	372-7097
320-2111	551-5323	372-7096
320-2113	551-5412	392-9088
320-2114	551-5412	392-9096
320-2115	551-5356	392-9020, 392-9066, 392-9132
320-2116	551-5317	382-8047
320-2117	551-5325	392-9095
320-2118	551-5321	372-7095
320-2119	551-5353	382-8027
320-2125	551-5388	382-8062
320-2129	551-5393	392-9094
320-2131	551-5363	392-9092
320-2133	551-5353	382-8063
320-2136	551-5381	372-7049
320-2137	551-5327	382-8064
320-2162	551-5333	392-9087
320-2164	551-5366	382-8066
320-2166	551-5340	382-8069
320-2173	551-5401	372-7024, 372-7026, 372-7027, 372-7028, 372-7091
320-2181	551-5349	382-8053, 382-8052
320-2199	551-5344	382-8056
320-2213	551-5364	392-9112, 392-9130
320-2216	551-5403	382-8071
320-2233	551-5404	392-9111

NOTE: In order for STEMCO warranty to apply, the product must be correctly installed with an installation tool manufactured by STEMCO.

FLEET HUB TOOLS BY VOYAGER® & DISCOVER® NUMBER

VOYAGER® / DISCOVER®	HUB TOOL
373-0113 373-0213	551-5313
373-0123 373-0223	551-5401
373-0143 373-0243	551-5412
373-0144	551-5339
373-0191	551-5401
383-0101	551-5420
383-0136 383-0236	551-5346

VOYAGER® / DISCOVER®	HUB TOOL
383-0139 383-0239	551-5413
383-0153 383-0156	551-5419 551-5344
383-0164 383-0264	551-5327
383-0166	551-5423
383-0171	551-5403
383-0175	551-5417
383-0176	551-5418

VOYAGER® / DISCOVER®	HUB TOOL
393-0103 393-0203	551-5415
393-0104 393-0204	551-5414
393-0112 393-0212	551-5416
393-0115	551-5424
393-0134	551-5421
393-0148	551-5400
393-0173 393-0273	551-5320

VOYAGER® / DISCOVER®	HUB TOOL
320-2058	551-5303
320-2059	551-5317
320-2061	551-5356
320-2072	551-5308
320-2077	551-5362
320-2086	551-5311
320-2091	551-5312
320-2096	551-5390

Use Universal Tool Handle 551-0001 with 551 Series Tool Heads.

FLEET HUB TOOLS BY TOOL HEAD NUMBER

TOOL NO.	SEAL NO.	TOOL NO.	SEAL NO.	TOOL NO.	SEAL NO.	TOOL NO.	SEAL NO.
551-5302	320-2056	551-5344	320-2199 383-0156	551-5383	320-2104	551-5404	320-2233
551-5303	320-2058	551-5346	320-2036 383-0136 383-0236	551-5385	320-2028	551-5405	320-2012
551-5308	320-2072	551-5347	320-2050	551-5386	320-2029	551-5412	320-2110 320-2113 320-2114 373-0143 373-0243
551-5311	320-2086	551-5349	320-2181	551-5387	320-2034	551-5413	383-0139 383-0239
551-5312	320-2091	551-5351	320-2018 320-2105	551-5388	320-2031 320-2032 320-2046 320-2125	551-5414	393-0104 393-0204
551-5313	373-0113 373-0213 320-2109	551-5353	320-2057 320-2119 320-2133	551-5390	320-2096	551-5415	393-0103 393-0203
551-5317	320-2059 320-2099 320-2116	551-5356	320-2009 320-2061 320-2115	551-5393	320-2129 383-0103 383-0203	551-5416	393-0112 393-0212
551-5318	320-2102	551-5362	320-2077	551-5395	320-2039	551-5417	383-0175
551-5320	320-2106 393-0173 393-0273	551-5363	320-2131	551-5398	320-2001 320-2041	551-5418	383-0176
551-5321	320-2118	551-5364	320-2213 393-0104 393-0204	551-5400	320-2097 393-0148	551-5419	383-0153
551-5323	320-2111	551-5366	320-2164	551-5401	320-2023 320-2173 373-0123 373-0191 373-0223	551-5420	383-0101
551-5325	320-2117	551-5381	320-2022 320-2136	551-5403	320-2216 383-0171	551-5421	393-0134
551-5327	320-2137 383-0164 383-0264					551-5423	383-0166
551-5333	320-2162					551-5424	393-0115
551-5339	373-0144						

Use Universal Tool Handle 551-0001 with 551 Series Tool Heads.

NOTE: In order for STEMCO warranty to apply, the product must be correctly installed with an installation tool manufactured by STEMCO.

BEARING GUIDES BY CONE NUMBER

BEARING NO.	GUIDE NO.	BEARING NO.	GUIDE NO.	BEARING NO.	GUIDE NO.	BEARING NO.	GUIDE NO.
387AS	570-0017	663	570-0023	5584	570-0019	47685	570-0023
495AX	570-0022	663A	570-0023	5760	570-0022	47686	570-0023
555S	570-0017	665	570-0024	6386	570-0020	188931	570-0017
557A	570-0018	665A	570-0024	6386A	570-0020	7451929	570-0017
559	570-0019	681A	570-0027	6389	570-0020	H715345	570-0021
575	570-0022	683	570-0028	6461	570-0022	HM212044	570-0018
580	570-0023	683XA	570-0028	6461A	570-0022	HM212046	570-0019
582	570-0023	687	570-0032	6559	570-0023	HM212047	570-0019
593	570-0025	748S	570-0022	6580	570-0025	HM212049	570-0020
594	570-0028	749A	570-0023	33212	570-0031	HM212049X	570-0020
594A	570-0028	758	570-0024	33281	570-0021	HM218248	570-0026
595	570-0023	759	570-0025	39250	570-0019	HM516449-A,-C	570-0023
598	570-0027	760	570-0026	39581	570-0017	HM518445	570-0025
598A	570-0027	843	570-0022	30585	570-0019	JM205149A	570-0033
623	570-0017	3982	570-0019	42687	570-0022	JM207049A	570-0036
639	570-0019	3984	570-0020	42688	570-0022		
641	570-0020	3994	570-0020	47678	570-0022		

High impact, accurate guides designed to align the STEMCO seal with the hub bore, thereby eliminating the cocked seal. To be used with the designated hub tool designed for the seal being installed.

MISCELLANEOUS TOOLS

TOOL	TOOL NO.	TOOL	TOOL NO.
Dial Indicator	102-5003	Grease Template Fill Tool	102-5015

HEAVY DUTY AXLE TOOLS

HEAVY DUTY AXLE TOOLS BY GUARDIAN® SEAL NUMBER

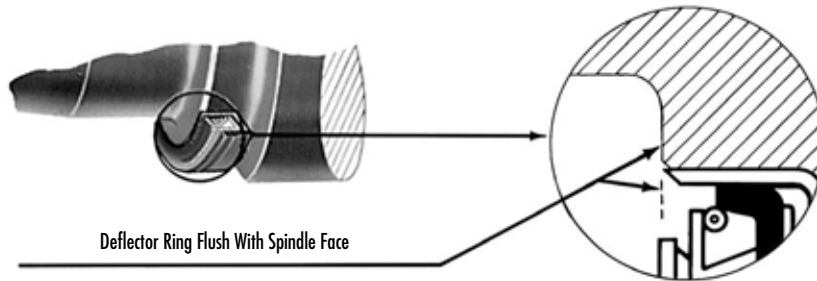
GUARDIAN® SEAL	INNER CONE	OUTER CONE	TOOL NUMBER	
307-0713 ¹	663	560	552-5212	
		HM212049	552-5359	
307-0723 ¹	HM518445	HM518445	552-5239	
307-0743 ¹	HM218248	HM212049	552-5236	
307-0744	665A	HM212049	552-5233	
	HM212044	3782	552-5206	
	557A	3782	552-5206	
	HM212049,X	3782	552-5288	
308-0836 ¹	HM212047	3782	552-5230	
	H715345	3979	552-5223	
308-0853	H715345	28682	552-5223	
308-0856		555S	552-5223	
308-0864 ¹		555S	552-5220	
309-0903 ¹	6461A	3979	552-5220	
		580	567	552-5221
		582	567	552-5221
309-0904 ¹	663	575	552-5226	
	HM516449-C	47679	552-5226	
309-0912	47685	39590	552-5359	
	47686	39590	552-5359	

GUARDIAN® SEAL	INNER CONE	OUTER CONE	TOOL NUMBER
309-0915	47685	39590	552-5359
	47686	39590	552-5359
309-0960	598A	580/582	552-5214
	594A	580/582	552-5216
	580	42687	552-5221
309-0961	582	42687	552-5221
	663A	42687	552-5221
	594	580	552-5216
309-0964	594A	580	552-5216
	598	575	552-5215
309-0965	598	758	552-5215
	598	665	552-5215
	598	HM617049	552-5215
	681A	575/580	552-5214
309-0970	683	580	552-5216
	683AX	580	552-5216
	598A	580	552-5214
309-0973 ¹	598	575	552-5215
	594	580	552-5216
	594A	580	552-5216

NOTE: In order for STEMCO warranty to apply, the product must be correctly installed with an installation tool manufactured by STEMCO.

NOTE: If heavy duty tool is not listed for a specific ring/seal use the 555 series tool head for that application.

¹ HP Design



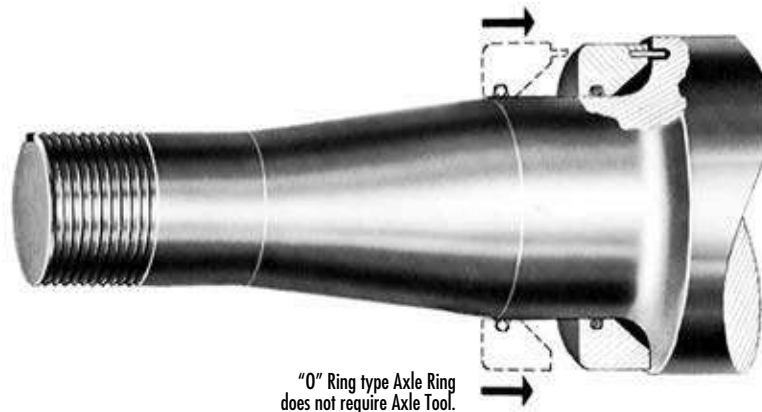
HEAVY DUTY AXLE TOOLS

HEAVY DUTY AXLE TOOLS BY AXLE/DEFLECTOR RING NUMBER

AXLE RING/DEFLECTOR RING	SET NUMBER	INNER CONE	OUTER CONE	TOOL NUMBER
310-1007	392-9007	663, HM516449	575, 47679	552-5226
310-1012	392-9012	47686	39590	552-5359
310-1013	None	663	HM212049 560	552-5359
310-1023	None	HM518445	HM518445	552-5239
310-1026	None	598	575	552-5215
310-1034	382-8071 382-8034	HM212047	3779, 45282	552-5230
310-1036	372-7009	39250	4395	552-5231
	382-8025	557A	3782	552-5206
	382-8036	HM212044 HM212047 HM212049;-X	3782	552-5206 552-5230 552-5288
310-1037	None	665A	HM212049	552-5233
	382-8064	6461A	555S, 3979	552-5220
310-1043	372-7015	759	740	552-5237
310-1048	None	HM218248	HM212049	552-5236
310-1053	392-9032	580	567	552-5221
310-1057	372-7003	663	HM212049	552-5359
310-1061	382-8005	3778	25877	552-5242
			2790	552-5243
310-1064	372-7048	3984	462	552-5247
	372-7049	JM511946	JM205149	552-5273
	392-9038	3984	462	552-5247
310-1088	None	663, HM516449	575, 47679	552-5226
310-1091	None	47685, 47686	39590	552-5359
310-1093	382-8053	H715345	3979, 28682	552-5223
	382-8056	H715345	28682, 555S	552-5223
	None	580, 582	567	552-5221
	None	594	580	552-5216

AXLE RING/DEFLECTOR RING	SET NUMBER	INNER CONE	OUTER CONE	TOOL NUMBER
310-1111	None	598A	582	552-5214
	None	681A	580	552-5214
	None	683	580	552-5216
		598A	580	552-5214
		598	575	552-5215
		594, 594A	560, 580	552-5216
310-1117	392-9045	47686	39590	552-5359
310-1130	372-7062	593	65390 HH506348	552-5239
310-1233	392-9111	593X/594	593X/594	552-5216
315-1501	392-9099	47685, 47686	39590	552-5359
		681A	580	552-5214
		683	580	552-5216
		681A	575	552-5215
		598A	582	552-5214
		598	575	552-5215
315-1502	392-9087	594, 594A	580	552-5216
		598A	582	552-5214
	392-9132	598	575	552-5215
		594, 594A	580	552-5216
392-9131	598A	580	552-5214	
	598A	580	552-5214	
315-1503	372-7099	HM518445	HM518445	552-5239
315-1504	372-7097	HM218248	HM212049	552-5236
315-1506	372-7096	787	6580	552-5268 X
315-1507	372-7098	663	HM212049	552-5359
315-1508	392-9096	598	575	552-5215
315-1509	392-9095	580, 582, 663A	42687	552-5221
315-1510	372-7095	665A	HM212049	552-5233
315-1511	392-9094	580, 582	567	552-5221
315-1515	392-9112	663, HM516449;-C	575, 47679	552-5226
315-1516	392-9089	780	776, 864	552-5271
315-1517	392-9088	594	580	552-5216
		598	575	552-5215
		594, 594A	580	552-5216
315-1525	392-9131	598A	580	552-5214
		598A	580	552-5214

NOTE: If heavy duty tool is not listed for a specific ring/seal use the 555 series tool head for that application. Numbers with a red X indicate discontinued part numbers.



HEAVY DUTY AXLE TOOLS

INSTALLATION TOOLS

HEAVY DUTY AXLE TOOLS BY TOOL NUMBER

TOOL NUMBER	INNER CONE	OUTER CONE	DEFLECTOR RING
552-5214	598A, 681A	580, 582, 575	309-0970 309-0973 315-1502 315-1525 315-1530
552-5215	598, 598A, 681A	575	309-0965 309-0973 310-1026 315-1502 315-1508 315-1525 315-1530
552-5216	594A, 594, 683, -XA	HM516449, 580, 560, 582, 575	309-0960 309-0964 309-0970 309-0973 310-1093 315-1502 315-1517 315-1525
552-5220	6461A	5555, 3979	308-0864 310-1037
552-5221	580, 582	567, 575	308-0856 309-0903 310-1053 315-1511

TOOL NUMBER	INNER CONE	OUTER CONE	DEFLECTOR RING
552-5223	H715345	3979, 28682	308-0853 308-0855 308-0856 309-0903 310-1093
552-5226	663, HM516449,-C	575, 47679	309-0904 310-1007 315-1515
552-5230	HM212047	3779, 45282	310-1034
552-5233	665A	HM212049, 641	307-0744 315-1510
552-5236	HM218248	HM212049	307-0743 315-1504
552-5239	HM518445	HM518445	307-0723 310-1023 315-1503
552-5288	HM212049, -X, X1	3782	308-0836 310-1036
552-5359	663, 47685, 47686	560, HM212049, 39590	307-0713 309-0912 309-0915 310-1012 310-1013 310-1057 310-1117 315-1501 315-1507

NOTE: In order for STEMCO warranty to apply, the product must be correctly installed with an installation tool manufactured by STEMCO.

NOTE: Hammer Assembly 552-5357.

TOOL BOARDS

TOOL BOARD	PART NO.
PINION	570-7035
HUB SEAL	570-7032
AXLE	570-7033



THE NEW STANDARD IN AXLE FASTENERS

Zip-Torq® is the latest STEMCO innovation designed to make the roadways safer. With its robust single piece design, Zip-Torq takes the guess work out of bearing adjustment.

Simplified & Fully Unitized Design

Single piece design allows installation without special tooling. No clips, keepers, snap rings, or screws to install.

Prevents Back Off

Integrated locking mechanism prevents back off.

Secure Adjustment, Easy Removal

Cannot rotate nut by hand after wheel-end adjustment is complete. After locking mechanism disengages, one can remove by hand.

Consistent Endplay

2-1-1 adjustment provides consistent TMC recommended endplay measurement between .001"—.005".

Highly Compatible

Zip-Torq is compatible with most automated installation equipment, so there's no need to purchase new equipment.

Extend Warranty

Zip-Torq is offered with STEMCO PPS+ programs, to allow one to package wheel end products to get the best warranty in the industry.

Install With Confidence

STEMCO offers installation videos and manuals online — available in the STEMCO app and on the website.

ZIP-TORQ AXLE FASTENERS

ZIP-TORQ PART NO.	DESCRIPTION	THREAD SIZE	OUTER BEARING CONE/CUP	TOOL SOCKET	PRO-TORQ® CROSS REF.
TRAILER AXLE					
400-4723	"P" Parallel Trailer 22,500#	3.480"-12	HM518445/ HM518410 SET415	4-1/8" Six Point	447-4723
400-4743	"N" Tapered Trailer 17,000#-22,500#	2-5/8"-16	HM212049/ HM212011 SET413	3-1/4" Six Point	447-4743
STEER AXLE					
400-4836	"FF" Steer 12,000#	1-1/2"-12	3782/3720 SET406	2-1/8" Six Point	448-4836
400-4837	"FF" Steer 12,000#	1-1/2"-18	3782/3720 SET406	2-1/8" Six Point	448-4837
400-4864	Mack Steer 18,000#, 20,000#	2"-12	555S/552A	2-7/8" Six Point	448-4864
400-4865	"FL" Steer	1-3/4"-12	555S/552A 3720/3979	2-7/8" Six Point	448-4865
DRIVE AXLE					
400-4904	Mack Drive 34,000#, 38,000#, 44,000#	2-7/8"-12	47679/47620 575/572 567/563	3-1/2" Six Point	449-4904
400-4973	"R" Drive 34,000#-46,000#, 50,000#	3-1/4"-12	580/572 SET401	4" Six Point	449-4973

HOW DOES ZIP-TORQ WORK?

The STEMCO Zip-Torq axle fastener is the latest innovation from STEMCO. Zip-Torq is a unitized spindle nut that uses a patented self-locking ratchet system to secure the wheel end and prevent back off. Zip-Torq consistently delivers accurate endplay between .001"-.005" using the STEMCO 2-1-1 method.

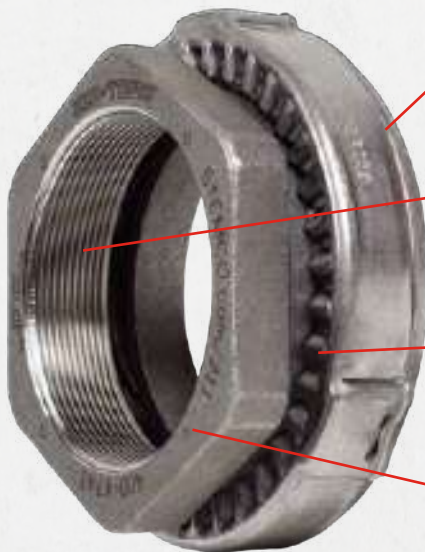
EASY & FAST INSTALL

Installation time of the Zip-Torq is the same or faster than Pro-Torq®, reducing time in the shop.

LEARN MORE ABOUT 2-1-1 INSTALLATION INSTRUCTIONS

See detailed Zip-Torq installation instructions at www.stemco.com/211

ZIP-TORQ FEATURES



Superior Wear Resistance

Bearing contact surface is induction hardened.
No washers required.

Improved Threads

Zip-Torq engages twice as many threads to firmly seat and lock wheel bearings securely.

Infinite Locking Positions

Nut and spring steel keeper mate and lock at any point on the axle spindle in .002" axial increments.

Highly Visible Adjustment Marks

Give mechanics precise control of nut backoff amount during installation.

PRO-TORQ® ADVANCED AXLE SPINDLE NUTS



UNRIVALED PRECISION AND SERVICE LIFE

Increase tire life and reduce premature wheel seal failure with the proven performance of the Pro-Torq® axle spindle nut. With back off increments down to 0.001 inch and exacting cup and cone alignment on the spindle, nothing compares to the reliability and precision of Pro-Torq.

Increased Tread Life

Controls axial motion, holding bearing end play near zero for longer tread life.

Precise Bearing Adjustment

Minimizes premature seal failure and improves seal and brake lining programs.

Compensates For Wear

Allows 0.001 inch back off increments to keep bearings aligned, running cooler and lasting longer.

Improves ABS

Helps ensure accurate wheel-speed monitoring on anti-lock braking systems.

Single-Nut Design

Eliminates potential for overtightening the jam nut and pushing the outer bearing cone out of position.

Easy to Install

Only one nut means less time wasted trying to reposition multiple-nut assemblies.

PRO-TORQ® AXLE SPINDLE NUTS

SPINDLE NUT APPLICATIONS	REPLACEMENT KEEPER PART NUMBER	THREAD SIZE	OUTER BEARING CONE / CUP	TOOL SOCKET	ZIP-TORO® CROSS REF.
TRAILER AXLE					
STEMCO No. 447-4723 Freuhof Pro-par, Meritor TP *Axle date code post January 1, 2006	450-4723	3.480"-12	HM518445 / HM518410	4 13/16"- 8 point (OTC# 1941)	400-4723
STEMCO No. 447-4724 22,500-23,000# Eaton, EST 230-P, EST 225-P, P-22	450-4723	3 1/2"-12	HM518445 / HM518410	4 13/16"- 8 point (OTC# 1941)	—
STEMCO No. 447-4743 17,000-22,500# Meritor, Dana, Eaton, Std Forge, Ingersoll	450-4743	2 5/8"-16	HM212049 / HM212011	3 3/4"- 8 point (OTC# 1925)	400-4743
STEMCO No. 449-4973 Dana Est-230-P, *P22 Axles or TQ *Axle date code post January 1, 2006	450-4973	3 1/4"-12	HM518445 / HM518410	4 3/8"- 8 point (OTC# 1917)	400-4973
STEER AXLE					
STEMCO No. 448-4836 12,000# Meritor, Navistar	450-4836	1 1/2"-12	3782 / 3720	2 1/2"- 6 point (OTC# 1921)	400-4836
STEMCO No. 448-4837 12,000# Eaton, Ford, Meritor	450-4837	1 1/2"-18	3782 / 3720	2 1/2"- 6 point (OTC# 1921)	400-4837
STEMCO No. 448-4838 Meritor	450-4837	1 1/2"-12	3782 / 3720	2 1/2"- 6 point (OTC# 1921)	—
STEMCO No. 448-4839 12,000#, 14,300# Mack	450-4839	1 5/8"-12	45280 / 45220	2 5/8"- 6 point (OTC# 1922)	—
STEMCO No. 448-4864 18,000#, 20,000# Mack	450-4864	2"-12	5555 / 552A	3"- 6 point (OTC# 1906)	400-4864
STEMCO No. 448-4865 Meritor FL Series	450-4865	1 3/4"-12	5555 / 552A 3720 / 3979	3"- 6 point (OTC# 1906)	400-4865
DRIVE AXLE					
STEMCO No. 449-4904 34,000#, 38,000#, 44,000# Mack	450-4904	2 7/8"-12	47679 / 47620 575 / 572 567 / 563	4 1/8"- 6 point (OTC# 1915)	400-4904
STEMCO No. 449-4973 34,000-46,000# Eaton, Meritor, Dana, Navistar, 50,000# Mack	450-4973	3 1/4"-12	580 / 572	4 3/8"- 8 point (OTC# 1917)	400-4973
STEMCO No. 449-4974 Meritor, Eaton, Ford, Navistar	450-4743	2 5/8"-12	3984 / 3920 39590 / 39520	3 3/4"- 8 point (OTC# 1925)	—
STEMCO No. 449-4975 19,000# Dana, Navistar, Bluebird	450-4975	2 5/8"-12	3984 / 3920 39590 / 39520	3 3/4"- 8 point (OTC# 1925)	—

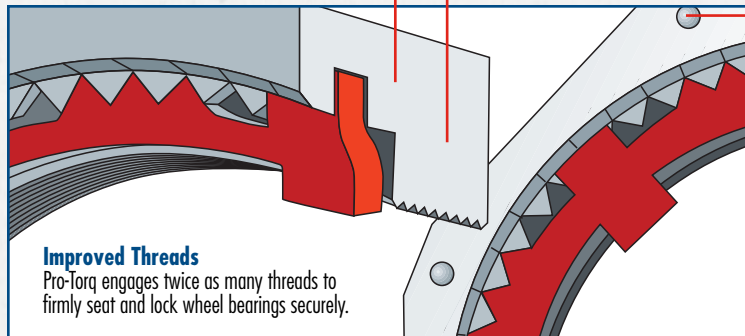
PRO-TORQ ADVANCED AXLE SPINDLE NUT DESIGN FEATURES

Superior Wear Resistance

Bearing contact surface is induction-hardened. No washers required.

Flat Contact Surface

Improves wheel bearing cup and cone alignment.



Improved Threads

Pro-Torq engages twice as many threads to firmly seat and lock wheel bearings securely.

Highly Visible Adjustment Marks

Give technicians precise control of nut back off amount during installation.

Infinite Locking Positions

Nut and spring-steel keeper mate and lock at any point on the axle spindle in 0.001" axial increments.

COST-SAVING INSTALLATION

For more than 20 years, leading fleets have chosen Pro-Torq to deliver the longer service life they expect from today's tires, wheel seals and bearings. Pro-Torq minimizes wheel-bearing adjustment variability, providing extended maintenance intervals and trouble-free performance from steer, drive and trailer axle wheel ends.

TIGHT BEARING ADJUSTMENT CONTROL

Pro-Torq gives fleets the ability to standardize wheel end maintenance practices and makes repeatable, close-tolerance bearing adjustment a reality. From technician to technician, when the Pro-Torq 2-1-1 adjustment procedure is followed, wheel-bearing end play adjustment of 0.001-0.003" can be accurately achieved.

Pro-Torq avoids the extremes of preload and excessive bearing end play, giving fleets the tightest adjustment standard in the industry.

FASTER TO INSTALL, EASIER TO LOCK

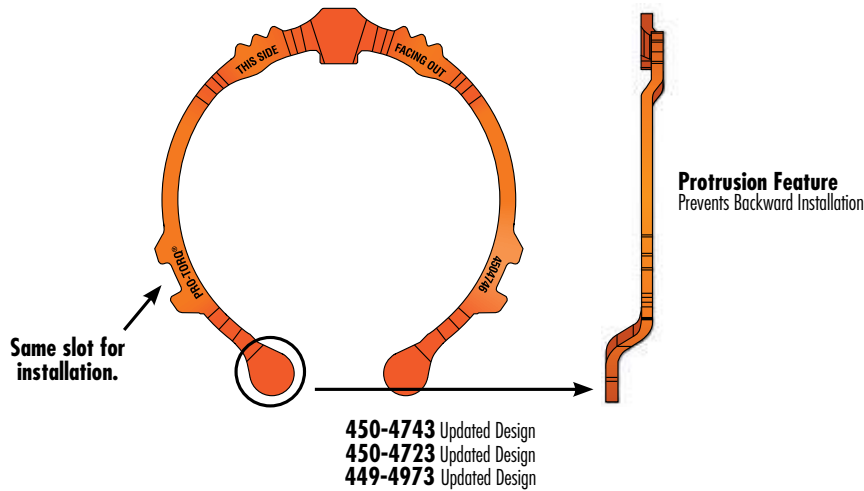
Pro-Torq assures bearings are precisely and positively locked in position the first time, because with Pro-Torq there is no jamming, juggling, or wasting time working with multiple-nut assemblies. That's because Pro-Torq uses only one nut.

Clearance in the threads of traditional jamming-type nuts can result in a wide range of final settings. Technicians can unintentionally impose preload on a bearing by over-tightening jam nut systems. As a result, the outer bearing cone can be pushed further up the spindle and out of its intended position.

Pro-Torq takes the guesswork out of bearing adjustment!

PRO-TORQ® TRAILER AXLE FASTENERS

AXLE FASTENERS



TRAILER AXLE FASTENERS 447-4723	
REPLACEMENT KEEPER NO.	450-4723 TANG
TOOL SOCKET	4-13/16" — 8 POINT (OTC# 1941)
THREAD SIZE	3.480" — 12
OUTER BEARING CUP/CONE	HM518445/HM518410

AXLES	
DANA SPICER	P-22 ¹
FRUEHAUF	PROPAR SERIES
HENDRICKSON	HP
INGERSOLL	F24H
MERITOR	TP SERIES

¹ Axle date code Prior to Jan. 1, 2006

TRAILER AXLE FASTENERS 447-4724	
REPLACEMENT KEEPER NO.	450-4723 TANG
TOOL SOCKET	4-13/16" — 8 POINT (OTC# 1941)
THREAD SIZE	3-1/2" — 12
OUTER BEARING CUP/CONE	HM518445/HM518410

AXLES	
EATON	EST 230-P, EST 225-P, P-22

TRAILER AXLE FASTENERS 447-4743	
REPLACEMENT KEEPER NO.	450-4743 TANG
TOOL SOCKET	3-3/4" — 8 POINT (OTC# 1925)
THREAD SIZE	2-5/8" — 16
OUTER BEARING CUP/CONE	HM212049/HM212011

AXLES	
DANA SPICER	D-20, D-21, D-22, DD-21, DD-22, K-21, K-22, K-25, K-30
EATON	C, C2, CD, CD2, CE, ESA-225J, EST, EST-225J, EST-230J, ETA 230C, ETA 225D, ETA 225J, H23L, H25R, HCE, HJ, HJE, J, JE, JH, LA-15, T-18C, 20L-77, 22L, 22R, 23L, 23R, 25R
MERITOR	RL SERIES, RQ SERIES, TK SERIES, TKL SERIES, TKLD SERIES, TL SERIES, TLD SERIES, TN SERIES, TND SERIES, TQ SERIES, TQC SERIES, TQD SERIES
STANDARD FORGE	A25, A26, 17,000 AND 18,000 LB. TRADE

TRAILER AXLE FASTENERS 448-4836	
REPLACEMENT KEEPER NO.	450-4836 D-FLAT
TOOL SOCKET	2-1/2" — 6 POINT (OTC# 1921)
THREAD SIZE	1-1/2" — 12
OUTER BEARING CUP/CONE	3782/3720

AXLES	
DANA SPICER	D10
EATON	X-115
FRUEHAUF	MODEL 5, TKF
MERITOR	T-1100
STANDARD FORGE	T 8.5-S

TRAILER AXLE FASTENERS 449-4973	
REPLACEMENT KEEPER NO.	450-4973 TANG
TOOL SOCKET	4-3/8" — 8 POINT (OTC# 1917)
THREAD SIZE	3-1/4" — 12
OUTER BEARING CUP/CONE	580/572 HM518445/HM518410 ¹

AXLES	
DANA SPICER	EST-230-P, P-22 TQ ¹
MERITOR	TR

¹ Axle date code Prior to Jan. 1, 2006

PRO-TORQ® STEER AXLE FASTENERS

TRAILER AXLE FASTENERS 448-4836

REPLACEMENT KEEPER NO.	450-4836 D-FLAT
TOOL SOCKET	2-1/2" — 6 POINT (OTC# 1921)
THREAD SIZE	1-1/2" — 12
OUTER BEARING CUP/CONE	3782/3720

AXLES

MERITOR	FD 900, FD 901, FD 961, FE 900, FE 903, FF 900, FF 901, FF 921, FF 931, FF 932, FF 933, FF 941, FF 942, FF 943, FF 944, FF 952, FF 961, FG 941
NAVISTAR	I100S

TRAILER AXLE FASTENERS 448-4837

REPLACEMENT KEEPER NO.	450-4837 TANG
TOOL SOCKET	2-1/2" — 6 POINT (OTC# 1921)
THREAD SIZE	1-1/2" — 18
OUTER BEARING CUP/CONE	3782/3720

AXLES

EATON	EFA-12F4, EFA-13F5, E-12001, FE 931, 12K, 13.2K
FORD	SIFCO 12,000 LB., FORD 6,000 LB.
MERITOR	FE-931

TRAILER AXLE FASTENERS 448-4838

PRO-TORQ FASTENER NUMBER	448-4836 TANG
REPLACEMENT KEEPER NO.	450-4837
TOOL SOCKET	2-1/2" — 6 POINT (OTC# 1921)
THREAD SIZE	1-1/2" — 12
OUTER BEARING CUP/CONE	3782/3720

AXLES

MERITOR	STEER
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TRAILER AXLE FASTENERS 448-4839

REPLACEMENT KEEPER NO.	450-4839 D-FLAT
TOOL SOCKET	2-5/8" — 6 POINT (OTC# 1922)
THREAD SIZE	1-5/8" — 12
OUTER BEARING CUP/CONE	45220/45280

AXLES

MACK FRONT	FAW12, FAW12, FAW537, FAW5371, FAW14.3, FAW538, FAW10.5, FAW536, FAW5361
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TRAILER AXLE FASTENERS 448-4840

REPLACEMENT KEEPER NO.	450-4836 D-FLAT
TOOL SOCKET	2-1/2" — 6 POINT (OTC# 1921)
THREAD SIZE	1-1/2" — 18
OUTER BEARING CUP/CONE	3782/3720

AXLES

HENDRICKSON AUXILIARY	13,000# ULTRA AXLE
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TRAILER AXLE FASTENERS 448-4863

REPLACEMENT KEEPER NO.	450-4863 D-FLAT
TOOL SOCKET	3-1/2" — 6 POINT (OTC# 1910)
THREAD SIZE	2-1/4" — 12

AXLES

ARVINMERITOR® FH	STEERING SPINDLE 16,500 LBS GAW
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TRAILER AXLE FASTENERS 448-4864

REPLACEMENT KEEPER NO.	450-4864 D-FLAT
TOOL SOCKET	3" — 6 POINT (OTC# 1906)
THREAD SIZE	2" — 12
OUTER BEARING CUP/CONE	552A/555S

AXLES

MACK FRONT	FA18, FAW18, FAW616, FA616, FA20, FAW20, FAW617, FA617, FAW16, FAW614
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TRAILER AXLE FASTENERS 448-4865

REPLACEMENT KEEPER NO.	450-4865 D-FLAT
TOOL SOCKET	3" — 6 POINT (OTC# 1906)
THREAD SIZE	1-3/4" — 12
OUTER BEARING CUP/CONE	552A/555S, 3979/3720

AXLES

MERITOR FRONT	FL
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PRO-TORQ® DRIVE AXLE FASTENERS

AXLE FASTENERS

TRAILER AXLE FASTENERS 449-4743	
REPLACEMENT KEEPER NO.	450-4743 TANG
TOOL SOCKET	3-3/4" — 8 POINT (OTC# 1925)
THREAD SIZE	2-5/8" — 16
OUTER BEARING CUP/CONE	HM212049/HM212011

AXLES	
MERITOR	F SERIES, H SERIES

TRAILER AXLE FASTENERS 449-4904	
REPLACEMENT KEEPER NO.	450-4904 TANG
TOOL SOCKET	4-1/8" — 6 POINT (OTC# 1915)
THREAD SIZE	2-7/8" — 12
OUTER BEARING CUP/CONE	563/567, 572/575, 47620/47679

AXLES	
MACK	S-34, S-38, S-44, S-462, SW-56, SW-57, SW-441

TRAILER AXLE FASTENERS 449-4973	
REPLACEMENT KEEPER NO.	450-4973 TANG
TOOL SOCKET	4-3/8" — 8 POINT (OTC# 1917)
THREAD SIZE	3-1/4" — 12
OUTER BEARING CUP/CONE	580/572

AXLES	
DANA SPICER	W 230-S, W 460-S
EATON	D 380, D 381, D 380-P, D 381-P, D 400, D 401, D 400-P, D 440-P, D 401-P, D 402-P, D 451-P, D 460-P, D 480-P, D 485-P DP 380, DP 381, DP 380-P, DP 381-P, DP 340, DP 341, DP 400-P, DP 401-P, DP 440-P, DP 460-P, DP 480-P, DP 550, DP 580-P, DP 650-P DS 340, DS 341, DS 344, DS 380, DS 381, DS 380-P, DS 381-P, DS 400-P, DS 401-P, DS 404-P, DS 400-P, DS 460-P, DS 480-P, DS 454-P DT 340, DT 341, DT 380, DT 381, DT 380-P, DT 381-P, DT 400-P, DT 440-P, DT 460-P, DT 480-P RS 341, RS 381, RS 402, RS 401, RS 460, RS 461, RT 402 44, 440P, 480P, 1911, 1919, 2011, 19500, 20500, 20501
MACK	50,000#
MERITOR	Q SERIES, QHD, QHR, QT SERIES, R SERIES, RL-170, RS SERIES, RT SERIES, S SERIES, S 170, S 280, SQ 100, SQ 100-P, SQD, SQDD, SQHD, SQHP, SQHR, SQR, SQW, SR 170, SR 270, SR 280, SRD, SRDD, SRHD, SSHD, SSHP, SP, STD, STDD, STHD, SU 170, SU 270, SU 280, SUHD, SW 170, SW 270, SW 280, T SERIES, U SERIES, 58000 SERIES, 59000 SERIES, 200
NAVISTAR	14227, 14308, 14309, 14311, 14338, 14342, 14943, 14348, 14364, 14368, 14494

TRAILER AXLE FASTENERS 449-4974	
REPLACEMENT KEEPER NO.	450-4743 TANG FITS 3/8" KEYWAY
TOOL SOCKET	3-3/4" — 8 POINT (OTC# 1925)
THREAD SIZE	2-5/8" — 12
OUTER BEARING CUP/CONE	3984/3920, 39590/39520

AXLES	
EATON	D, DT, 32M, 34M, MF, MR, RP, RT, 17800, 17801
FORD	18,000# REAR
MERITOR	H-145, H-162, H-172, H-240, H-262, H-350, H-362, L-172
NAVISTAR	14044, 14186, 14351, RA44

TRAILER AXLE FASTENERS 449-4975	
REPLACEMENT KEEPER NO.	450-4975 TANG FITS 5/16" KEYWAY
TOOL SOCKET	3-3/4" — 8 POINT (OTC# 1925)
THREAD SIZE	2-5/8" — 12
OUTER BEARING CUP/CONE	3984/3920, 39590/39520

AXLES	
DANA	J190S
FORD	
GMC	
NAVISTAR	
REAR AXLE SCHOOL BUS APPLICATION	19,000#

PRO-TORQ® INTERCHANGE GUIDE

PRO-TORQ® ADVANCED AXLE FASTENERS

AXILOK	STEMCO
AX 12-1500	448-4836
AX 12-3250	449-4973
AX 12-3480	447-4723
AX 12-3500	447-4724
AX 16-2625	447-4743
AX 18-1500	448-4837

BATCO	STEMCO
06-201	447-4743
06-203	447-4743
06-204	448-4836
06-210	448-4836
06-226	447-4723
06-348	448-4837
06-354	448-4836
06-358	448-4836
06-403	447-4743
06-404	447-4743
06-411	449-4973
06-412	449-4973
06-424	447-4743
06-425	447-4743
06-470	449-4974
06-472	449-4974
06-482	449-4973
06-484	449-4973

BWP	STEMCO
M-682	447-4743
M-684	447-4743
M-685	448-4836
M-1524	448-4836
M-1956	448-4836
M-1959	448-4836
M-1972	447-4743
M-1974	447-4743
M-1978	449-4973
M-1980	449-4973
M-1984	447-4743
M-1986	447-4743
M-1990	449-4973
M-1992	449-4973
M-1996	447-4723

CEROMET	STEMCO
150012	448-4836
150018	448-4837
262512	449-4974
262516C	447-4743
325012	449-4973
348012	447-4723
348012E	447-4724
K1501	450-4836
K1502	450-4837
K2625	450-4743
K3250	450-4973
K3480	450-4723

DANA	STEMCO
10284	447-4743
10286	447-4743
10406	447-4743
10408	447-4743

EATON	STEMCO
F-940	447-4743
F-941	447-4743
F-1529	447-4743
F-1530	447-4743
X-115	448-4836
11249	449-4973
19186	447-4743
31927	449-4973
34090	447-4743
128333	448-4837
820394	447-4743
820395	447-4743
E-540	447-4743
E-572	447-4743
E-576	448-4836
E-1087	448-4836
E-2296	448-4836
E-2299	448-4836
E-2303	449-4973
E-2305	449-4973
E-2420	447-4743
E-2422	447-4743
E-2460	447-4743
E-2466	449-4973
E-2468	449-4973
E-2550	447-4723
E-4861	448-4837
E-6140	449-4973

FORD	STEMCO
D5HZ-3104A	448-4837
D7HZ-4255A	449-4974
D7HZ-4245A	449-4974
E4HS-4255-AA	449-4973
F2HS-3276-AA	448-4837

FRUEHAUF	STEMCO
ACE-8510-001	447-4723
530088	448-4836

K-B AXLE	STEMCO
KBE-10227	447-4743

KERSHAW	STEMCO
10284	447-4743
10286	447-4743

LELAND	STEMCO
L-176	447-4743
L-178	447-4743
L-195	448-4836
L-1331	448-4836
L-1334	448-4836
L-1347	447-4743
L-1349	447-4743
L-1353	449-4973
L-1355	449-4973
L-1359	447-4743
L-1361	447-4743
L-1365	449-4973
L-1367	449-4973
L-1395	447-4723

MERITOR	STEMCO
A-1227-A-105	448-4836
A-1227-S-331	449-4973
1227-B-106	448-4836
1227-B-756	447-4743
1227-B-1484	447-4723
1227-C-549	447-4743
1227-E-1045	449-4974
1227-K-947	448-4837
1227-K-1389	447-4723
1227-L-194	448-4836
1227-M-715	449-4974
1227-R-330	449-4973
1227-R-1240	449-4973
1227-T-228	447-4743
1227-T-540	447-4743
1227-U-541	448-4836
1227-W-517	449-4973
1227-X-102	448-4836
1227-Z-1040	449-4974
1227-P-1160	447-4743

NAVISTAR	STEMCO
1607743C1	448-4836
1607744C1	449-4973
2037474C1	448-4837
2501559C1	449-4974

SPICER	STEMCO
M10HN101	447-4743
M10HN102	447-4743
M10HN128	448-4836
M10HN158	447-4743
M103102-001	447-4743

STD. FORGE	STEMCO
103100-1	447-4743
103102-001	447-4743
103103-002	447-4743
103104-001	447-4743
103105	448-4836
105013	447-4743

TRANSIT	STEMCO
TP-157	448-4836
TP-431	448-4836
TP-489	447-4743
TP-490	447-4743
TP-1572	449-4973
TP-1943	449-4973
TP-1970	448-4836
TP-1973	448-4836
TP-1977	449-4973
TP-1978	449-4973
TP-1988	447-4743
TP-1989	447-4743
TP-1997	447-4743
TP-1999	447-4743



WHEEL END CROSS REFERENCE



CROSS REFERENCE

Information contained in this section is furnished as a guide. Verify specific application elsewhere in this catalog when possible.

CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
003102611	Western Star	310-1037 X				
01005503	Dexter		372-7097	307-0743	373-0143	373-0243
02000655	Timpte	330-3009				
02009111	Timpte		372-7097	307-0743	373-0143	373-0243
02009913	Timpte	340/343-4009				
027003942	GMC/Volvo	343-4249				
027023479	Western Star	343-4095				
027074450	GMC/Volvo	320-2106				
027074962	GMC/Volvo		392-9131	309-0973	393-0173	393-0273
027077882	Western Star	310-1111 X				
027125816	GMC/Volvo		392-9131	309-0973	393-0173	393-0273
06-201	Batco	447-4743				
06-203	Batco	447-4743				
06-204	Batco	448-4836				
06-210	Batco	448-4836				
06-226	Batco	447-4723				
06-348	Batco	448-4837				
06-354	Batco	448-4836				
06-358	Batco	448-4836				
06-403	Batco	447-4743				
06-404	Batco	447-4743				
06-411	Batco	449-4973				
06-412	Batco	449-4973				
06-424	Batco	447-4743				
06-425	Batco	447-4743				
06-470	Batco	449-4974				
06-472	Batco	449-4974				
06-482	Batco	449-4973				
06-484	Batco	449-4973				
1008569	Eaton	330-3009				
100858201	Eaton		382-8036	308-0836	383-0136	383-0236
100858401	Eaton		382-8036	308-0836	383-0136	383-0236
10284	Dana	447-4743				
10284	Kershaw	447-4743				
10286	Dana	447-4743				
10286	Kershaw	447-4743				
103100-1	Std. Forge	447-4743				
103102-001	Std. Forge	447-4743				
103103-002	Std. Forge	447-4743				
103104-001	Std. Forge	447-4743				
103105	Std. Forge	448-4836				
10406	Dana	447-4743				
10408	Dana	447-4743				
105013	Std. Forge	447-4743				
10895522	GMC/Volvo			308-0870		
11249	Eaton	449-4973				
11724	Dexter	320-2110				
119427	Eaton	460-6002				
119429	Eaton	460-6006				
119431	Eaton	460-6001				
119457	Eaton	460-6002				
1199A1665	Meritor		392-9021 X			
1199B1614	Meritor		392-9021 X			
1199B1666	Meritor	310-1111 X				
1199E1669	Meritor	315-1502				
1199G1151	Meritor	310-1095 X				
1199J2428	Meritor		392-9087	309-0970		

Numbers with a red X indicate discontinued part numbers. Refer to Engineering Changes for more information.

¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
1199N2926	Meritor					
1199R2722	Meritor	310-1018				
1199S3633	Meritor	310-1008				
1199U2517	Meritor	310-1037 X				
1199V1296	Meritor	310-1012/1091				
1199Y3431	Meritor	315-1502				
1199Z3094	Meritor	315-1504				
1199Z3146	Meritor		392-9087	309-0970		
1204	C/R		382-8025 X³			
1205	C/R		392-9018			
1207	C/R		392-9096	309-0965		
1208	C/R		392-9132	309-0960		
1211	C/R		392-9131	309-0973	393-0173	393-0273
1212	C/R		392-9062			
1213	C/R		392-9087	309-0970		
1214	C/R		392-9099	309-0912/0915²	393-0112	393-0212
1215	C/R		392-9131	309-0973	393-0173	393-0273
1216	C/R		392-9087	309-0970		
1219	C/R		392-9057	309-0957		
121SR19	Mack	330-3009				
1225L948	Meritor	364-6435				
1227-B-106	Meritor	448-4836				
1227-B-756	Meritor	447-4743				
1227-B-1484	Meritor	447-4723				
1227-C-549	Meritor	447-4743				
1227-E-1045	Meritor	449-4974				
1227-K-1389	Meritor	447-4723				
1227-L-194	Meritor	448-4836				
1227-M-715	Meritor	449-4974				
1227-R-330	Meritor	449-4973				
1227-R-1240	Meritor	449-4973				
1227-T-228	Meritor	447-4743				
1227-T-540	Meritor	447-4743				
1227-U-541	Meritor	448-4836				
1227-W-517	Meritor	449-4973				
1227-X-102	Meritor	448-4836				
1227-Z-1040	Meritor	449-4974				
1227-P-1160	Meritor	447-4743				
12375801	A M General	340-4296 X				
1244N1210	Meritor	310-1066				
1244U879	Meritor	310-1089				
127043	Eaton	320-2106				
127044	Eaton	310-1111 X				
127719	Eaton	460-6006				
127720	Eaton	460-6001				
127721	Eaton	460-6002				
128113	Crane	330-3009				
128333	Eaton	448-4837				
1282	C/R	340-4975				
1283	C/R	640-0003				
1284	C/R	349-4975				
128355	Eaton	320-2102				
128356	Eaton	315-1501				
1306	C/R		392-9038			
1307	C/R		392-9035	309-0935		
1308	C/R		392-9099	309-0912/0915²	393-0112	393-0212
1311	C/R	349-4024				

Numbers with a red X indicate discontinued part numbers. Refer to Engineering Changes for more information.

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² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
1321	C/R		392-9018			
1322	C/R		392-9057	309-0957		
1343	C/R	349-4009				
13567	Crane	320-2137				
13568	Crane	320-2106				
1399	C/R	349-4195				
1436860008	Westport	343-4024				
1436860010	Westport	343-4249				
1436860011	Westport	343-4095				
1436900006	Westport		382-8036	308-0836	383-0136	383-0236
1436900007	Westport		372-7097	307-0743	373-0143	373-0243
150012	Ceromet	448-4836				
150018	Ceromet	448-4837				
15507089	GMC		382-8064	308-0864	383-0164	383-0264
15511620	GMC/Valvo	359-5970				
15519908	GMC/Valvo		382-8071		383-0171	
15519910	GMC/Valvo	320-2216 X				
15520072	GMC/Valvo		382-8009			
15520073	GMC/Valvo	343-4198				
15527755	GMC/Valvo		382-8063	308-0863		
15527780	GMC/Valvo		382-8053 X	308-0853	383-0153	
15527781	GMC/Valvo		392-9033 X			
15534441	GMC/Valvo	359-5968				
1554331C1	Navistar		382-8036	308-0836	383-0136	383-0236
15550869	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
15556130	GMC/Valvo	343-4249				
15556131	GMC/Valvo	330-3122				
15557677	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
15557678	GMC/Valvo		392-9099	309-0912	393-0112	393-0212
15587578	GMC/Valvo	340-4263				
15587579	GMC/Valvo	340-4263				
15588691	GMC/Valvo					
15588692	GMC/Valvo					
15588693	GMC/Valvo					
15611171	GMC/Valvo		382-8029 X			
15611171	GMC/Valvo		392-9018			
15663537	GMC/Valvo		382-8036	308-0836	383-0136	383-0236
15679880	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
15679881	GMC/Valvo		392-9099	309-0912	393-0112	393-0212
15687419	GMC/Valvo		382-8064	308-0864	383-0164	383-0264
15703555	GMC/Valvo		392-9099	309-0912	393-0112	393-0212
15844467	GMC/Valvo			308-0870		
15965961	GMC/Valvo	320-2029 X				
15965962	GMC/Valvo	310-1018				
15982869	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
1600	C/R	347-4009				
1607743C1	Navistar	448-4836				
1607744C1	Navistar	449-4973				
1608	C/R	340-4065				
1609948C1	Navistar	320-2106				
1611843C91	Navistar		382-8036	308-0836	383-0136	383-0236
1612	C/R	343-4024				
1612823C1	Navistar		382-8056 X	308-0856	383-0156	
1612877C91	Navistar		382-8064	308-0864	383-0164	383-0264
1613	C/R	343-4249				
1615304C1	Navistar		382-8036	308-0836	383-0136	383-0236
1615305C1	Navistar		392-9131	309-0973	393-0173	393-0273

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
1623	C/R	343-4066				
1627	C/R	343-4019				
1630	C/R	343-4014				
1642	C/R	343-4013				
1643	C/R	343-4009				
1643	C/R	343-4249				
1644	C/R	343-4009				
1649628C1	Navistar		372-7097	307-0743	373-0143	373-0243
1654330C1	Navistar		392-9099	309-0912/0915	393-0112	393-0212
1654331C1	Navistar		382-8036	308-0836	383-0136	383-0236
1655102C1	Navistar		382-8056 X	308-0856	383-0156	
1657081C91	Navistar	343-4249				
1659759C91	Navistar		382-8066	308-0866	383-0166	
1660383C91	Navistar	340-4332				
1660994C1	Navistar		382-8064	308-0864	383-0164	383-0264
1663974C91	Navistar		392-9036 X			
166437R91	Navistar		392-9099	309-0912/0915	393-0112	393-0212
1665	C/R	343-4042				
1669	C/R	343-4025				
1670	C/R	343-4072				
1680802C1	Navistar		392-9131	309-0973	393-0173	393-0273
1681	C/R	343-4186				
1682	C/R	343-4075				
1685942C91	Navistar		392-9088	309-0964		
1688203C1	Navistar		382-8036	308-0836	383-0136	383-0236
1691	C/R	340-4098				
16911843C91	Navistar		382-8036	308-0836	383-0136	383-0236
1696	C/R	343-4195				
1698	C/R	340-4080				
1698	C/R	343-4164				
1702	C/R	343-4036				
1703	C/R	343-4249				
1704	C/R	343-4049				
1711	C/R	343-4024				
1715	C/R	343-4028				
1720	C/R	343-4082				
1723	C/R	343-4066				
1727	C/R	343-4019				
1732	C/R	340-4070 X ³				
1736	C/R	343-4012 X				
1737	C/R	340-4015				
1738	C/R	343-4011				
1741	C/R	343-4059				
1742	C/R	343-4013				
1743	C/R	343-4009				
1743	C/R	343-4046				
1743	C/R	343-4095				
1753	C/R	343-4249				
1754	C/R	343-4057				
1764	C/R	340-4037 X				
1769	C/R	343-4025				
1770	C/R	343-4034				
1781	C/R	343-4186				
1787	C/R	343-4092				
1788	C/R	343-4249				
1790	C/R	343-4098				
1798	C/R	343-4080				

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¹ When using HM516449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
1800	C/R	347-4009				
1801	C/R	347-4013				
1803	C/R	343-4149				
1808	C/R	343-4065				
1811	C/R	343-4024				
1823	C/R	343-4042				
1827	C/R	343-4002				
1842	C/R	343-4013				
1843	C/R	343-4009				
1843	C/R	343-4046				
1843	C/R	343-4095				
1865	C/R	343-4066				
1869	C/R	343-4025				
1870	C/R	343-4034				
1881	C/R	343-4028				
1890	C/R	343-4249				
1898	C/R	343-4080				
19186	Eaton	447-4743				
19QJ238	Mack	343-4025				
19QJ29302A	Mack	343-4024/4308				
19QJ29304	Mack	343-4095				
19QJ29304A	Mack	343-4095/4309				
19QJ310	Mack	343-4025				
19QJ313	Mack	343-4009				
19QJ318	Mack	343-4098				
19QJ319	Mack	343-4249				
19QJ324	Mack	343-4095				
19QJ325	Mack	343-4092				
19QJ325P2	Mack	343-4092/4312				
19QJ332	Mack	343-4249				
19QJ334	Mack	343-4024				
19QJ335	Mack	343-4264				
19QJA29302	Mack	343-4024				
19QJA29304	Mack	343-4095				
19QJA310	Mack	343-4025				
19QJA310P1	Mack	343-4025				
19QJA315	Mack	343-4057				
19QJA319	Mack	343-4249				
19QJA320	Mack	343-4249				
2009947C91	Navistar	343-4281				
2029409	GMC/Volvo	320-2102				
2033466C91	Navistar	343-4065				
2033863C91	Navistar	343-4009				
2034224	GMC/Volvo		382-8032			
2034230	GMC/Volvo		382-8017			
2034237	GMC/Volvo		392-9057	309-0957		
203452	Manac	330-3009/3067				
203453	Manac	343-4009				
203467	Manac	315-1504				
203469	Manac	310-1048				
203470	Manac	320-2110				
2036166	GMC/Volvo	315-1501				
2037474C1	Navistar	448-4837				
2039149	GMC/Volvo		382-8017			
2039419	GMC/Volvo		382-8017			
2045996	GMC/Volvo		382-8001 X		383-0101	
2056780	GMC/Volvo	359-5991				

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
2059246	GMC/Volvo	359-5995				
2064489	GMC/Volvo		392-9057	309-0957		
2071314	Crane	310-1037 X				
2071319	Crane	310-1111 X				
2071760	Crane	315-1502				
2078026	GMC/Volvo		392-9132	309-0960		
2079222	GMC/Volvo	359-5990				
2094440	GMC/Volvo	320-2029 X				
2099450	GMC/Volvo	320-2104				
2208A885	Meritor	330-3060				
2208C575	Meritor	330-3009				
2208C835	Meritor	330-3040				
2208E889	Meritor	330-3024				
2208N820	Meritor	330-3097				
2208U1113	Meritor	330-3118				
2222	National					
2245A27	Meritor	310-1089				
2297M6981	Meritor	315-1525				
2302130	GMC/Volvo	310-1123				
231206	National		392-9111			
2317614	GMC/Volvo		392-9131	309-0973	393-0173	393-0273
23590	C/R PlusXL				383-0175	
240694R1	Navistar	359-6032				
2413360	GMC/Volvo		392-9053			
2428573	GMC/Volvo	343-4042				
2444414	GMC/Volvo	343-4066				
2455044	GMC/Volvo	330-3009				
2455048	GMC/Volvo	310-1012 X				
2455091	GMC/Volvo	310-1034 X				
2455092	GMC/Volvo	320-2034 X				
2455093	GMC/Volvo	330-3041				
2455943	GMC/Volvo	320-2017				
2455944	GMC/Volvo	310-1017				
2456738	GMC/Volvo	320-2008 X				
2456739	GMC/Volvo	310-1079				
2477708	GMC/Volvo	320-2036 X				
2485338	GMC/Volvo	310-1018				
2498220	GMC/Volvo		382-8064	308-0864	383-0164	383-0264
2501559C1	Navistar	449-4974				
254032C91	Navistar		392-9053			
260421C1	Navistar	343-4092				
26209	C/R	429-0004				
26220	C/R	429-0004				
26239	C/R	429-0004				
262512	Ceromet	449-4974				
262516C	Ceromet	447-4743				
26373	C/R	429-0003				
26378	C/R	460-6002				
2674	National		382-8044			
26762	C/R	429-0004				
2708026	GMC/Volvo		392-9132	309-0960		
27295	C/R	429-0008				
27430	C/R					
27438	C/R		382-8043 X			
27461	C/R	460-6005 X				
27467	C/R	460-6005 X				
27500	C/R	460-6005 X				

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³ Obsolete set, components still available.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
27542	C/R	429-0009				
27558	C/R	460-6004				
27565	C/R	429-0009				
2757682	GMC/Volvo		392-9096	309-0965		
277428C91	Navistar	320-2029 X				
278616C91	Navistar	320-2117				
280886C91	Navistar		392-9099	309-0912/0915 ²	393-0112	393-0212
283109C1	Navistar	359-5995				
283110C1	Navistar	359-5990				
283111C1	Navistar	359-5997				
283112C1	Navistar	359-5992				
283113C1	Navistar	359-5996				
283114C1	Navistar	359-5991				
28425	C/R		392-9063			
28426	C/R		392-9063			
286517C91	Navistar	320-2137 X				
286518C1	Navistar	310-1037				
28745	C/R		382-8066	308-0866	383-0166	
28758	C/R		382-8066	308-0866	383-0166	
28820	C/R		372-7046			
28828	C/R		382-8018 X ³			
28830	C/R		382-8044			
28832	C/R		382-8044			
29288	C/R	460-6003				
29292	C/R	460-6006				
29316	C/R	429-0006				
29322	C/R	429-0006				
29380	C/R	429-0006				
29381	C/R	429-0013 X				
29480	C/R PlusXL				383-0176	
29528	C/R	429-0012				
2960381	Dodge		392-9010 X			
296393C91	Navistar		382-8036	308-0836	383-0136	383-0236
296395C91	Navistar		392-9088	309-0964		
296409C91	Navistar	320-2010 X				
296436C1	Navistar	330-3036				
296438C91	Navistar		372-7099	307-0713	373-0113	373-0213
296441C91	Navistar		392-9095	309-0961		
29865	C/R	429-0005				
29867	C/R	429-0005				
29912	C/R	460-6007				
29961	C/R	460-6007				
29Q1110A	Mack		382-8023 X			
29Q1123	Mack		382-8023 X			
29Q1127	Mack	310-1041				
29Q1210	Mack	310-1051				
29Q1211	Mack	310-1038 X				
29Q1212	Mack	310-1037 X				
29Q1219	Mack	310-1111 X				
29Q1222	Mack	315-1516				
29Q1229	Mack	310-1111 X				
29Q1230	Mack	310-1089				
29Q1233	Mack	310-1079				
29Q1235	Mack	310-1103				
29Q12930	Mack	315-1502				
29Q129301	Mack	315-1502				
29Q129302	Mack	310-1036				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
29QJ29304	Mack	310-1093 X				
29QJ29305	Mack	315-1501				
30007	C/R	429-0005				
30057	C/R	460-6012				
301	NOK		372-7098	307-0713	373-0113	373-0213
301401	Pioneer Weston		372-7098	307-0713	373-0113	373-0213
30153	C/R	429-0010				
302	NOK		372-7099	307-0723	373-0123	373-0223
302200	Pioneer Weston		372-7099	307-0723	373-0123	373-0223
302402	Pioneer Weston		372-7099	307-0723	373-0123	373-0223
303	NOK		372-7097	307-0743	373-0143	373-0243
303100	Pioneer Weston		372-7097	307-0743	373-0143	373-0243
30323	NOK		372-7018 X³			
30323	NOK		382-8029 X			
30323	NOK		392-9018			
303403	Pioneer Weston		372-7097	307-0743	373-0143	373-0243
304	NOK		392-9131	309-0973	393-0173	393-0273
30445	C/R	429-0010				
304404	Pioneer Weston		372-7095	307-0744	373-0144	
305	NOK		382-8036	308-0836	383-0136	383-0236
305132C92	Navistar	343-4186				
305133C1	Navistar	330-3028				
305387C1	Navistar	310-1089				
305405	Pioneer Weston		392-9094	309-0903		
306	NOK		392-9099	309-0912/0915²	393-0112	393-0212
306408	Pioneer Weston		392-9087	309-0970		
307	NOK		392-9088	309-0964		
307408	Pioneer Weston		392-9131	309-0973	393-0173	393-0273
308	NOK		392-9132	309-0960		
308408	Pioneer Weston		392-9132	309-0960		
309409	Pioneer Weston		392-9099	309-0912/0915²	393-0112	393-0212
30QJ256	Mack	315-1511				
30QJ258	Mack	315-1515				
3102611	GMC/Volvo	310-1037 X				
310410	Pioneer Weston		392-9088	309-0964		
311411	Pioneer Weston		392-9096	309-0965		
31175	C/R		382-8009			
31182	C/R		<i>Same as 31175 used for worm hubs or oversize seal bore</i>			
31203	C/R		382-8009			
312100	Pioneer Weston		382-8036	308-0836	383-0136	383-0236
31244	C/R	320-2022				
31244	C/R		382-8010			
31264						
31266	C/R	320-2125				
31266	C/R		382-8062			
31269	C/R		382-8010			
31270	C/R		382-8010			
31271	C/R		382-8010			
31281	C/R		372-7049			
31288	C/R		392-9038			
31299	C/R		392-9038			
31301	C/R		392-9038			
31307	C/R		372-7048 X³			
31307	C/R		392-9038			
3130997908	Bluebird		382-8036	308-0836	383-0136	383-0236
314755C91	Navistar	343-4066				
315100	Pioneer Weston		382-8064	308-0864	383-0164	383-0264

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317100	Pioneer Weston		382-8056 X	308-0856	383-0156	
31927	Eaton	449-4973				
319506C91	Navistar		382-8053 X	308-0853	383-0153	
31955	C/R		382-8035 X			
31960	C/R		382-8035 X			
31961	C/R		382-8035 X			
3208J1076	Meritor	330-3041				
32385	C/R	429-0007				
32397	C/R	429-0007				
324043R91	Navistar		392-9033 X			
32410	C/R	460-6011				
32449	C/R		382-8017			
32452	C/R		382-8010			
32453	C/R		382-8010			
32467	C/R		382-8010			
32470	C/R		382-8017			
32477	C/R		382-8017			
32501	C/R		382-8010			
325012	Ceromet	449-4973				
32502	C/R		382-8010			
32510	C/R		382-8017			
32540	C/R		382-8017			
32564	C/R		382-8017			
326283C91	Navistar		392-9095	309-0961		
32710	C/R		392-9038			
32870	C/R	429-0011				
32QJ112B	Mack		392-9092	309-0965		
32QJ127A	Mack		392-9131	309-0973	393-0173	393-0273
32QJ131A	Mack		382-8064	308-0864	383-0164	383-0264
32QJ179	Mack	320-2106				
32QJ225	Mack	320-2039 X				
32QJ228	Mack	320-2009				
32QJ235	Mack	320-2023				
32QJ237	Mack	320-2106				
32QJ238	Mack		382-8010			
32QJ240	Mack	320-2097				
32QJ241	Mack	320-2129				
32QJ243	Mack	320-2213				
32QJ245	Mack	320-2137				
32QJ246	Mack		382-8011			
32QJ248	Mack		382-8039 X		383-0139	383-0239
32QJ249	Mack	320-2118				
32QJ251	Mack	320-2099				
32QJ252	Mack		382-8064	308-0864	383-0164	383-0264
32QJ260	Mack	320-2001				
32QJ262	Mack		382-8039 X		383-0139	383-0239
32QJ263	Mack		392-9094	309-0903	393-0103	393-0203
32QJ265	Mack		392-9081	309-0960		
32QJ267	Mack		392-9131	309-0973	393-0173	393-0273
32QJ268	Mack		392-9094	309-0903	393-0103	393-0203
32QJ269	Mack		382-8036	308-0836	383-0136	383-0236
32QJ270	Mack		382-8064	308-0864	383-0164	383-0264
32QJ271	Mack		392-9112¹	309-0904	393-0104	393-0204
32QJ276	Mack		392-9089	309-0948	393-0148	
32QJ29302	Mack	320-2036 X				
32QJ29315	Mack		382-8036	308-0836	383-0136	383-0236
32QJ29316	Mack		392-9131	309-0973	393-0173	393-0273

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32QJ29318	Mack		392-9094	309-0904	393-0104	393-0204
32QJ29320	Mack		382-8064	308-0864	383-0164	383-0264
330783408	Western Star		392-9131	309-0973	393-0173	393-0273
331471C91	Navistar	320-2102				
33254	C/R	429-0011				
33751	C/R	429-0014				
337711C92	Navistar		392-9099	309-0912/0915 ²	393-0112	393-0212
338877R91	Navistar		392-9036			
340107C92	Navistar		392-9088	309-0964		
34046	Eaton		392-9088	309-0964		
34090	Eaton	447-4743				
340929C91	Navistar		392-9036			
341SR36	Mack	310-1088				
341SR38	Mack	310-1007				
341SR41	Mack		392-9095	309-0961		
34383	C/R		392-9035	309-0935		
34384	C/R PlusXL		392-9035	309-0935		
34385	C/R		392-9035	309-0935		
34386	C/R		392-9035	309-0935		
34387	C/R Classic		392-9035	309-0935		
348012	Ceromet	447-4723				
348012E	Ceromet	447-4724				
34882	C/R	429-0002				
34885	C/R		382-8063	308-0863		
34891	C/R	429-0002				
34971	C/R PlusXL		382-8063	308-0863		
34972	C/R		382-8063	308-0863		
34975	C/R Classic		382-8063	308-0863		
34980	C/R		382-8063	308-0863		
34994	C/R PlusXL		392-9036			
34999	C/R		392-9036			
35000	C/R Classic		392-9036			
35001	C/R LongLife		392-9036			
35012	C/R		392-9036			
35029	C/R		392-9036			
35058	C/R PlusXL		382-8036	308-0836	383-0136	383-0236
35059	C/R		382-8036	308-0836	383-0136	383-0236
35060	C/R		382-8035			
35062	C/R		382-8036	308-0836	383-0136	383-0236
35066	C/R Classic		382-8036	308-0836	383-0136	383-0236
35072	C/R	<i>Same as 35066 used for worn hubs or oversize seal bore</i>				
35075	C/R		372-7005 ³			
35075	C/R		372-7006			
35075	C/R		382-8025 ³			
35093	C/R		372-7005 ³			
35093	C/R		372-7006			
35093	C/R		372-7009 ³			
35102	C/R		382-8036	308-0836	383-0136	383-0236
35103	C/R LongLife		382-8036	308-0836	383-0136	383-0236
357	National	330-3077				
35810	C/R		392-9035	309-0935		
35820	C/R					
359922C91	Navistar		382-8064	308-0864	383-0164	383-0264
362402R91	Navistar		382-8032			
36274	C/R					
36282	C/R		382-8034			
36285	C/R w/455035		382-8032			

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
36285	C/R		382-8034			
36314	C/R		392-9037			
36357	C/R w/455037		382-8011			
36357	C/R		382-8071		383-0171	
36358	C/R Classic		382-8071		383-0171	
36363	C/R		382-8011			
36364	C/R		382-8011			
36365	C/R		382-8011			
36365	C/R Classic		382-8071		383-0171	
36369	C/R		382-8011			
36370	C/R		382-8011			
36378	C/R		372-7005 X			
36378	C/R		372-7006			
36378	C/R		382-8025 X ³			
36382	C/R		382-8034			
3645Z100	Mack		382-8036	308-0836	383-0136	383-0236
3645Z202	Mack		392-9131	309-0973	393-0173	393-0273
3645Z203	Mack		392-9095	309-0961		
3645Z206	Mack		382-8036	308-0836	383-0136	383-0236
36506	Eaton		392-9099	309-0912/0915	393-0112	393-0212
370001A	National		382-8036	308-0836	383-0136	383-0236
370002A	National		372-7006			
370002A	National		372-7009 X ³			
370002A	National		382-8025 X ³			
370003A	National		392-9131	309-0973	393-0173	393-0273
370004A	National		392-9001			
370005A	National		392-9020 X			
370005A	National		392-9132	309-0960		
370006A	National		392-9087	309-0970		
370007A	National		382-8028			
370007A	National		392-9043 X			
370008A	National		372-7018 X ³			
370008A	National		382-8029 X			
370008A	National		392-9018			
370009A	National		392-9057	309-0957		
370010A	National		372-7046			
370010A	National		382-8018 X ³			
370011A	National		382-8011			
370011A	National		382-8071		383-0171	
370012A	National		382-8032			
370012A	National		382-8034			
370013A	National		372-7005 X			
370014A	National		372-7049			
370014A	National		382-8010			
370014A	National		382-8062			
370015A	National		382-8052			
370018A	National		382-8017			
370019A	National		392-9092	309-0965		
370020A	National		382-8060			
370021A	National		392-9088	309-0964		
370022A	National		392-9094	309-0903	393-0103	393-0203
370023A	National		392-9099 ⁵	309-0912/0915	393-0112	393-0212
370024A	National		392-9099 ⁵	309-0915	393-0115	
370025A	National		372-7097	307-0743	373-0143	373-0243
370026A	National		372-7022			
370027A	National		372-7025 X			
370027A	National		392-9021 X			

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
370027A	National		392-9046 X			
370028A	National		392-9007			
370029A	National		372-7008 X			
370030A	National		392-9095	309-0961		
370031A	National		392-9112 ¹	309-0904	393-0104	393-0204
370033A	National		382-8039 X		383-0139	383-0239
370033A	National		392-9010 X			
370034A	National		392-9131	309-0973	393-0173	393-0273
370036A	National		372-7003			
370036A	National		372-7098	307-0713	373-0113	373-0213
370036A	National		392-9032			
370037A	National		372-7095	307-0744	373-0144	
370038A	National					
370039A	National					
370043A	National					
370046A	National		392-9038			
370047A	National		392-9035	309-0935		
370048A	National		382-8064	308-0864	383-0164	383-0264
370051A	National					
370054A	National		382-8044			
370057A	National		372-7004 X			
370057A	National		382-8045			
370057A	National		392-9019 X ³			
370063A	National					
370064A	National					
370065A	National		372-7099	307-0723	373-0123	373-0223
370066A	National		382-8001 X		383-0101	
370069A	National		392-9048 X ³	309-0948	393-0148	
370078A	National					
370086A	National					
370094A	National					
370106A	National		392-9045			
370107A	National		372-7091 X		373-0191	
370109A	National					
370119A	National					
370120A	National		392-9053			
370121A	National		392-9062			
370124A	National		382-8053 X	308-0853	383-0153	
370131A	National		382-8056 X	308-0856	383-0156	
370132A	National		382-8063	308-0863		
370145A	National		382-8009			
370150A	National		382-8066	308-0866	383-0166	
370165A	National		392-9099	309-0912/0915		
370166A	National					
370169A	National		392-9036			
370173A	National		392-9081	309-0960		
370175A	National					
370178A	National		392-9033 X			
370179A	National		382-8027			
370181A	National		392-9132	309-0960		
370182A	National		382-8064	308-0864	383-0164	383-0264
370191A	National					
370192A	National		372-7015			
370192A	National		372-7017 X			
370195A	National		392-9034 X		393-0134	
370198A	National		382-8039 X		383-0139	383-0239
370199A	National				383-0175	

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
370211A	National				383-0176	
370212A	National					
370215A	National					
370219A	National					
370220A	National		392-9111			
370338A	National		372-7095	307-0744	373-0144	
370349A	National		372-7003			
370349A	National		372-7098	307-0713	373-0113	373-0213
370349A	National		392-9032			
37532	C/R		382-8032			
37532	C/R		382-8035 X			
37561	C/R		382-8035 X			
376590A	National		372-7099	307-0723	373-0123	373-0223
3796564	GMC/Volvo		392-9057	309-0957		
3796575	GMC/Volvo		392-9057	309-0957		
380001A	National		382-8036	308-0836	383-0136	383-0236
380003A	National		392-9131	309-0973	393-0173	393-0273
380019C91	Navistar		392-9099	309-0912/0915	393-0112	393-0212
380022A	National		392-9094	309-0903	393-0103	393-0203
380023A	National		392-9099	309-0912/0915	393-0112	393-0212
380025A	National		372-7097	307-0743	373-0143	373-0243
380031A	National		392-9112 ¹	309-0904	393-0104	393-0204
380036A	National		372-7003			
380036A	National		372-7098	307-0713	373-0113	373-0213
380036A	National		392-9032			
380048A	National		382-8064	308-0864	383-0164	383-0264
380065A	National		372-7099	307-0723	373-0123	373-0223
380131A	National		382-8056 X	308-0856	383-0156	
3827712	Dodge		382-8063	308-0863		
383706C91	Navistar		392-9001			
383716C91	Navistar	320-2046 X				
383718C1	Navistar	310-1008				
383727C1	Navistar	330-3040				
383728C1	Navistar	330-3056				
383733C1	Navistar	330-3001				
386590A	National		372-7099	307-0723	373-0123	373-0223
38703	C/R		392-9010 X			
38706	C/R		392-9010 X			
38709	C/R		392-9010 X			
38736	C/R					
38745	C/R		392-9099	309-0912/0915	393-0112	393-0212
38747	C/R		392-9099	309-0912/0915	393-0112	393-0212
38748	C/R		392-9099	309-0915		
38750	C/R Classic		392-9099	309-0915	393-0115	
38774	C/R		392-9099	309-0912/0915	393-0112	393-0212
38776	C/R PlusXL		392-9099	309-0912	393-0112	393-0212
38777	C/R		392-9099	309-0912/0915	393-0112	393-0212
38778	C/R		392-9099	309-0912/0915	393-0112	393-0212
38779	C/R		392-9099	309-0912/0915	393-0112	393-0212
38780	C/R Classic		392-9099	309-0912/0915	393-0112	393-0212
38782	C/R		392-9099	309-0912/0915	393-0112	393-0212
38783	C/R LongLife		392-9099	309-0912	393-0112	393-0212
388250C91	Navistar	343-4025				
39378	C/R		392-9018 X			
39380	C/R		372-7018 X			
39380	C/R		382-8029			
39380	C/R		392-9018			

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³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
39381	C/R		382-8039 X		383-0139	383-0239
39385	C/R		372-7018 X			
39385	C/R		382-8029 X			
39385	C/R		392-9018			
3941956	Volvo		392-9131	309-0973	393-0173	393-0273
39420	C/R		392-9057	309-0957		
3942006	Volvo		382-8036	308-0836	383-0136	383-0236
39423	C/R		392-9057	309-0957		
39425	C/R		392-9057	309-0957		
39426	C/R		308-0870	308-0870		
39430	C/R		392-9018			
39448886	GMC/Volvo	320-2050				
394735C91	Navistar	343-4092				
3948884	GMC/Volvo	310-1052				
394894C91	Navistar		382-8036	308-0836	383-0136	383-0236
396526C91	Navistar		392-9096	309-0965		
3974846	Navistar		392-9045			
398124C1	Navistar	310-1089				
39975	C/R		382-8039 X		383-0139	383-0239
39977	C/R		382-8023 X			
39977	C/R		382-8039 X		383-0139	383-0239
39979	C/R PlusXL		382-8039 X		383-0139	383-0239
39980	C/R		382-8039 X		383-0139	383-0239
39981	C/R		382-8039 X		383-0139	383-0239
39988	C/R Classic		382-8039 X		383-0139	383-0239
39990	C/R		382-8039 X		383-0139	383-0239
3W5687	Caterpillar	343-4009				
3W6998	Caterpillar	330-3009				
4000531R91	Navistar	460-6011				
40023	C/R		382-8029 X			
40035	C/R		382-8052			
40036	C/R		382-8029 X			
40040	C/R		382-8052			
40049	C/R		382-8039 X		383-0139	383-0239
40051	C/R		382-8039 X		383-0139	383-0239
40052	C/R		382-8039 X		383-0139	383-0239
40077	C/R		382-8001 X		383-0101	
40078	C/R		382-8001 X		383-0101	
40080	C/R		382-8001 X		383-0101	
40082	C/R		382-8001 X		383-0101	
400855C91	Navistar		382-8028			
40086	C/R Classic		382-8001 X		383-0101	
40088	C/R		382-8001 X		383-0101	
40090	C/R LongLife		382-8001 X		383-0101	
40091	C/R PlusXL		382-8001 X		383-0101	
40108	C/R		392-9032			
401265	Mechanex/Barrier	330-3077				
40129	C/R PlusXL		372-7098	307-0713	373-0113	373-0213
40130	C/R		372-7098	307-0713	373-0113	373-0213
40130	C/R		392-9032			
40133	C/R		372-7098	307-0713	373-0113	373-0213
40133	C/R		392-9032			
40136	C/R		372-7003			
40136	C/R Classic		372-7098	307-0713	373-0113	373-0213
40136	C/R		392-9032			
40139	C/R		Same as 40136 used for worn hubs or oversize seal bore			
40146	C/R		372-7098	307-0713	373-0113	373-0213

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40147	C/R LongLife		372-7098	307-0713	373-0113	373-0213
401502	Mechanex/Barrier	330-3014 X				
401503	Mechanex/Barrier	330-3002				
401504	Mechanex/Barrier	330-3024				
401507	Mechanex/Barrier	330-3041				
401508	Mechanex/Barrier	330-3018 X				
401508	Mechanex/Barrier	330-3028				
401508	Mechanex/Barrier	330-3120				
401510	Mechanex/Barrier	330-3041				
401511	Mechanex/Barrier	330-3060				
401514	Mechanex/Barrier	330-3034				
401516	Mechanex/Barrier	330-3025				
401516	Mechanex/Barrier	330-3035				
401519	Mechanex/Barrier	330-3012				
401524	Mechanex/Barrier	330-3097				
401524	Mechanex/Barrier	330-3122				
401911P	Mechanex/Barrier	340-4975				
40210	C/R		392-9099	309-0912/0915	393-0112	393-0212
40350	C/R		392-9018			
40360	C/R		392-9099	309-0912/0915	393-0112	393-0212
405367C91	Navistar	460-6004				
407505	Eaton		382-8044			
410324472709	Mack		392-9111			
41035000787789	Mack		392-9111			
411601P	Midland	343-4009				
411604P	Midland	343-4008				
411605P	Midland	343-4095				
411605P	Midland	343-4098				
411605P	Midland	343-4249				
411608P	Midland	343-4013				
411610P	Midland	340-4014 X				
411616P	Midland	343-4002				
411620P	Midland	343-4066				
411622P	Midland	343-4042				
411625P	Midland	343-4018				
411627P	Midland	343-4028				
411629P	Midland	343-4186				
411630P	Midland	343-4024				
411635P	Midland	343-4065				
411640P	Midland	343-4034				
411644P	Midland	343-4092				
411646P	Midland	343-4025				
411650P	Midland	343-4012 X				
411655P	Midland	343-4075				
411688P	Midland	343-4095				
411845P	Midland	343-4149				
411883P	Midland	343-4080				
411917P	Midland	340-4119				
411967P	Midland	343-4046				
4131005	Trailmobile	330-3009				
4131008	Trailmobile	330-3013				
4131012	Trailmobile	330-3019				
4131013	Trailmobile	330-3024				
4131018	Trailmobile	330-3077				
4131024	Trailmobile	330-3104				
4131025	Trailmobile	330-3067				
4131026	Trailmobile	330-3118				

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4131027	Trailmobile	330-3122				
4131056	Trailmobile	330-3056				
4131096	Trailmobile	343-4095				
4131097	Trailmobile	343-4195				
4131100	Trailmobile	343-4009				
4131103	Trailmobile	343-4013				
4131107	Trailmobile	343-4019				
4131111	Trailmobile	343-4059				
4131115	Trailmobile	343-4075				
4131121	Trailmobile	340-4163				
4131122	Trailmobile	359-5981				
4131123	Trailmobile	359-5990				
4131124	Trailmobile	343-4249				
4131128	Trailmobile	343-4009				
4131135	Trailmobile		372-7098	307-0713	373-0113	373-0213
4131144	Trailmobile		372-7099	307-0723	373-0123	373-0223
4131145	Trailmobile		372-7091		373-0191	
4131150	Trailmobile		372-7097	307-0743	373-0143	373-0243
4131151	Trailmobile		372-7095	307-0744	373-0144	
4131159	Trailmobile		372-7091		373-0191	
4131160	Trailmobile		372-7095	307-0744	373-0144	
4131162	Trailmobile		372-7097	307-0743	373-0143	373-0243
4131163	Trailmobile		372-7098	307-0713	373-0113	373-0213
4131164	Trailmobile		372-7099	307-0723	373-0123	373-0223
4131166	Trailmobile		392-9088	309-0964		
4131167	Trailmobile		392-9132	309-0960		
4131169	Trailmobile		392-9132	309-0960		
4131170	Trailmobile		392-9131	309-0973	393-0173	393-0273
4131171	Trailmobile		392-9131	309-0973	393-0173	393-0273
4131173	Trailmobile		392-9099	309-0912/0915	393-0112	393-0212
4131188	Trailmobile		392-9087	309-0970		
4131189	Trailmobile		392-9087	309-0970		
4131191	Trailmobile		392-9012	309-0912	393-0112	393-0212
4131192	Trailmobile		392-9099	309-0912/0915	393-0112	393-0212
4131193	Trailmobile		392-9088	309-0964		
4131194	Trailmobile		392-9094	309-0903		
4131197	Trailmobile		392-9112	309-0904		
4131199	Trailmobile		392-9081	309-0960		
4131204	Trailmobile		382-8064	308-0864		
4131206	Trailmobile		382-8056 X	308-0856		
4131210	Trailmobile		372-7098	307-0713	373-0113	373-0213
4131211	Trailmobile		372-7099	307-0723	373-0123	373-0223
4131212	Trailmobile		372-7097	307-0743	373-0143	373-0243
4131213	Trailmobile		372-7095	307-0744	373-0144	
4131214	Trailmobile		382-8036	308-0836	383-0136	383-0236
4131215	Trailmobile		382-8056 X	308-0856	383-0156	
4131216	Trailmobile		382-8064	308-0864	383-0164	383-0264
4131220	Trailmobile		382-8036	308-0836	383-0136	383-0236
4131223	Trailmobile		392-9088	309-0964		
4131224	Trailmobile		392-9087	309-0970		
4131225	Trailmobile		392-9112	309-0904	393-0104	393-0204
4131226	Trailmobile		392-9131	309-0973	393-0173	393-0273
4131227	Trailmobile		392-9132	309-0960		
4131229	Trailmobile		392-9112	309-0904	393-0104	393-0204
4131230	Trailmobile		392-9132	309-0960		
4131231	Trailmobile		392-9131	309-0973	393-0173	393-0273
4131232	Trailmobile		392-9088	309-0964		

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
4131234	Trailmobile		372-7098	307-0713	373-0113	373-0213
4131235	Trailmobile		372-7097	307-0743	373-0143	373-0243
4131236	Trailmobile		372-7099	307-0723	373-0123	373-0223
4131243	Trailmobile	359-5915				
4131244	Trailmobile	359-5995				
4131249	Trailmobile		382-8036	308-0836	383-0136	383-0236
4131250	Trailmobile		382-8056 X	308-0856	383-0156	
4131251	Trailmobile		382-8064	308-0864	383-0164	383-0264
414467C91	Navistar		372-7095	307-0744	373-0144	
414467C93	Navistar	320-2118				
415027	National		372-7006			
415027	National		382-8025 X			
415058	National		392-9112	309-0904	393-0104	393-0204
415060	National		392-9096	309-0965		
415200	National		392-9033 X			
415371	National		392-9088	309-0964		
415371	National		392-9094	309-0903	393-0103	393-0203
41550	C/R		392-9045			
416125	National		382-8011			
416125	National		382-8071			
416130	National		382-8052			
416297	National		392-9038			
416865	National		392-9007			
416888	National		392-9033 X			
416892	National		392-9088	309-0964		
416895C1	Navistar	310-1093 X				
417134	National		382-8018 X			
417158	National		382-8066	308-0866	383-0166	
417172	National		382-8010			
417352	National		382-8017			
417491	National		382-8045			
417505	National		392-9099	309-0912/0915	393-0112	393-0212
417506	National		392-9057	309-0957		
417530	National		382-8053 X	308-0853	383-0153	
417531	National		382-8056 X	308-0856	383-0156	
41AX207	Mack		382-8060			
41SR31	Mack	343-4049				
42478	Great Dane		372-7097	307-0743	373-0143	373-0243
42525	Great Dane		372-7099	307-0723	373-0123	373-0223
42550	C/R		392-9045			
42622	C/R		372-7062			
42622	C/R		372-7099	307-0723	373-0123	373-0223
42623	C/R		372-7062			
42623	C/R Classic		372-7099	307-0723	373-0123	373-0223
42624	C/R		372-7091		373-0191	
42625	C/R	Same as 42623 used for worn hubs or oversize seal bore				
42627	C/R PlusXL		372-7099	307-0723	373-0123	373-0223
426297	National		392-9038			
42630	C/R		372-7099	307-0723	373-0113	373-0213
42631	C/R LongLife		372-7099	307-0723	373-0123	373-0223
42644	C/R		392-9112 ¹	309-0904	393-0104	393-0204
42650	C/R		392-9112 ¹	309-0904	393-0104	393-0204
42671	C/R		392-9112 ¹	309-0904	393-0104	393-0204
42672	C/R Classic		392-9112 ¹	309-0904	393-0104	393-0204
42673	C/R PlusXL		392-9112 ¹	309-0904	393-0104	393-0204
426834C1	Navistar	343-4065				
42699	C/R		392-9095	309-0961		

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

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CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
42752R91	Navistar	320-2036 X				
42753R91	Navistar	343-4066				
42755R2	Navistar	310-1036				
42800	C/R		392-9095	309-0961		
428119C91	Navistar	320-2102				
428120C1	Navistar	315-1501				
428121C1	Navistar	310-1095 X				
428455C91	Navistar	320-2106				
428456C1	Navistar	315-1502				
431615R3	Navistar	310-1021 X				
431616R92	Navistar	320-2113				
431619R91	Navistar		372-7098	307-0713	373-0113	373-0223
431620R91	Navistar	343-4009				
431620R92	Navistar	343-4009				
431621R2	Navistar	330-3009/3067				
431622R1	Navistar	320-2109				
43751	C/R		372-7095	307-0744	373-0144	
43752	C/R Classic		372-7095	307-0744	373-0144	
43753	C/R		372-7095	307-0744	373-0144	
43754	C/R PlusXL		372-7095	307-0744	373-0144	
43760	C/R		382-8064	308-0864	383-0164	383-0264
43761	C/R PlusXL		382-8064	308-0864	383-0164	383-0264
43762	C/R		382-8064	308-0864	383-0164	383-0264
43763	C/R		382-8064	308-0864	383-0164	383-0264
43764	C/R Classic		382-8064	308-0864	383-0164	383-0264
43765	C/R LongLife					
43795	C/R		392-9095	309-0961		
43800	C/R w/455034		382-8060			
43820	C/R		392-9092	309-0965		
43820	C/R		392-9096	309-0965		
43860	C/R Classic		392-9096	309-0965		
43861	C/R		392-9096	309-0965		
43865	C/R		392-9092	309-0965		
43875	C/R		392-9131	309-0973	393-0173	393-0273
44068	Great Dane	343-4009				
447550C91	Navistar		372-7005 X			
447551C91	Navistar		392-9131	309-0973	393-0173	393-0273
447551C92	Navistar	310-1013				
447554C91	Navistar					
447556C91	Navistar		382-8053 X	308-0853	383-0153	
447558C91	Navistar		382-8018 X			
447559C91	Navistar		382-8028			
447559C92	Navistar	320-2028 X				
447560C91	Navistar		382-8029 X			
447561C91	Navistar		382-8036	308-0836	383-0136	383-0236
447561C92	Navistar	320-2036 X				
447562C91	Navistar		382-8064	308-0864	383-0164	383-0264
447563C91	Navistar		392-9001			
447563C92	Navistar	320-2001				
447564C91	Navistar		392-9088	309-0964		
447564C92	Navistar	320-2113				
447565C91	Navistar		392-9010 X			
447567C91	Navistar		392-9095	309-0961		
447567C92	Navistar	320-2117				
447568C91	Navistar		392-9021 X			
447568C92	Navistar	320-2021 X				
447569C91	Navistar		392-9096	309-0965		

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
447569C92	Navistar		392-9096	309-0965		
447574C91	Navistar		392-9131	309-0973	393-0173	393-0273
447574C92	Navistar		392-9131	309-0973	393-0173	393-0273
44916	C/R PlusXL		382-8053 X	308-0853	383-0153	
44919	C/R		382-8053 X	308-0853	383-0153	
44920	C/R		382-8053 X	308-0853	383-0153	
44922	C/R Classic		382-8053 X	308-0853	383-0153	
44930	C/R		392-9033 X			
44963	C/R		392-9033 X			
44964	C/R Classic		392-9033 X			
44967	C/R		392-9033 X			
44968	C/R		392-9033 X			
44975	C/R		392-9033 X			
450023	C/R	330-3109				
45010	C/R		392-9033 X			
450155	C/R	330-3106				
450208	C/R	310-1022				
450293	C/R	330-3122				
450358	National	460-6004				
450409	C/R	310-1057				
45066	C/R		392-9094	309-0903	393-0103	393-0203
45069	C/R		392-9094	309-0903	393-0103	393-0203
45070	C/R		392-9094	309-0903	393-0103	393-0203
450741	C/R	330-3025				
450742	C/R	330-3012				
450743	C/R	330-3042				
450744	C/R	330-3056				
450747	C/R	330-3007				
450748	C/R	330-3041				
450749	C/R	330-3028				
450751	C/R	330-3009/3067				
450752	C/R	330-3060				
450755	C/R	330-3024				
450757	C/R	330-3037				
450760	C/R	330-3008				
450762	C/R	330-3062				
450765	C/R	330-3040				
450767	C/R	330-3015				
450768	C/R	330-3034				
450769	C/R	330-3011				
450775	C/R	330-3013				
450777	C/R	330-3019				
450778	C/R	330-3031				
450781	C/R	330-3097				
450788	C/R	330-3122/3067				
450875	C/R	330-3105				
450876	C/R	330-3106				
450877	C/R	330-3107				
450878	C/R	330-3108				
450879	C/R	330-3109				
45093	C/R PlusXL		392-9094	309-0903	393-0103	393-0203
45095			382-8056 X	308-0856	383-0156	
45097	C/R		392-9094	309-0903	393-0103	393-0203
45098	C/R		392-9094	309-0903	393-0103	393-0203
450980	C/R	330-3110				
450981	C/R	330-3111				
450982	C/R	330-3112				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
450983	C/R	330-3113				
450984	C/R	330-3114				
450985	C/R	330-3115				
45099	C/R Classic		392-9094	309-0903	393-0103	393-0203
45102	C/R		382-8056 X	308-0856	383-0156	
45103	C/R Classic		382-8056 X	308-0856	383-0156	
45108	C/R		392-9094	309-0903	393-0103	393-0203
45115	C/R		392-9088	309-0964		
45149	C/R		392-9088	309-0964		
45150	C/R		392-9088	309-0964		
45152	C/R		392-9131	309-0973	393-0173	393-0273
45157	C/R PlusXL		392-9088	309-0964		
45158	C/R		392-9088	309-0964		
45160	C/R Classic		392-9088	309-0964		
45162	C/R		372-7017 X			
453027C1	Navistar		392-9001			
453644	C/R	330-3122/3067				
453645	C/R	330-3025				
453646	C/R	330-3105				
4543V	National	460-6011				
455001	C/R	310-1050				
455004	C/R	310-1035 X				
455011	C/R	310-1010 X				
455014	C/R	310-1029 X				
455019	C/R	310-1095 X				
455022	National		372-7008 X			
455023	C/R	357-5706				
455030	C/R	310-1044 X				
455031	C/R	310-1038 X				
455033	C/R	310-1011 X				
455034	C/R	310-1041				
455035	C/R	310-1032 X				
455037	C/R	310-1051				
455052	C/R	310-1051				
455058	National		392-9112	309-0904	393-0104	393-0204
455060	National		392-9096	309-0965		
455062	National		392-9088	309-0964		
455068	National		392-9019			
455070	National		392-9007			
455091	National		392-9034 X			
455137	National		382-8017			
455173	National		392-9036			
455188	National		382-8023 X			
455188	National		382-8039 X		383-0139	383-0239
455200	National		392-9033 X			
455209	National		382-8060			
455211	National		372-7097	307-0743	373-0143	373-0243
455285	National		392-9007			
455355	National		382-8066	308-0866	383-0166	
455513	National		382-8001 X			
455547	National		392-9010 X			
455858	National		392-9035	309-0935		
455958	National		392-9099	309-0912/0915	393-0112	393-0212
4563V	National	460-6003				
4564V	National	460-6005 X				
456618	National		392-9099	309-0912/0915	393-0112	393-0212
456865N	National		392-9007			

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45742	Great Dane	330-3009				
45951	Great Dane	320-2110				
45952	Great Dane	315-1504				
46200	C/R		392-9094	309-0903	393-0103	393-0203
46211	C/R		392-9094	309-0903	393-0103	393-0203
46300	C/R PlusXL		372-7097	307-0743	373-0143	373-0243
46304	C/R		372-7097	307-0743	373-0143	373-0243
46305	C/R Classic		372-7097	307-0743	373-0143	373-0243
46306	C/R		372-7097	307-0743	373-0143	373-0243
46308	C/R LongLife		372-7097	307-0743	373-0143	373-0243
46324	C/R		392-9088	309-0964		
46331	C/R		392-9088	309-0964		
46390	C/R		372-7022			
46390	C/R		372-7099	307-0723	373-0123	373-0223
465510C91	Navistar	320-2164				
46841	Victor		372-7099	307-0723	373-0123	373-0223
469844C1	Navistar		382-8066	308-0866	383-0166	
469845C1	Navistar		392-9036			
47017	Great Dane	347-4009				
47245	C/R		392-9111			
472HH101	Dana	460-6007				
47394	C/R		372-7098	307-0713	373-0113	373-0213
47394	C/R		392-9032			
47483	C/R		392-9066			
47548	Great Dane	343-4195				
47549	Great Dane	343-4009				
47550	Great Dane	343-4075				
47555	Great Dane		372-7099	307-0723	373-0123	373-0223
47556	Great Dane		372-7097	307-0743	373-0113	373-0213
47690	C/R		392-9132	309-0960		
47691/47692	C/R PlusXL		392-9131	309-0973	393-0173	393-0273
47693	C/R LongLife		392-9131	309-0973	393-0173	393-0273
47694	C/R		<i>Narrow version of 47695 for ABS</i>			
47695	C/R		392-9131	309-0973	393-0173	393-0273
47696	C/R		392-9131	309-0973	393-0173	393-0273
47697	C/R Classic		392-9131	309-0973	393-0173	393-0273
47698	C/R		<i>Same as 47697 used for worn hubs or oversize seal bore</i>			
47699	C/R		392-9087	309-0970		
47802	Victor		392-9096	309-0965		
47803	Victor		392-9132	309-0960		
48000	C/R Classic		392-9132	309-0960		
48001	C/R		392-9132	309-0960		
48001	C/R		392-9081			
48002	C/R PlusXL		392-9081	309-0960		
48086	Victor		372-7097	307-0743	373-0143	373-0243
48088	Victor		372-7098	307-0713	373-0113	373-0213
48089	Victor		392-9131	309-0973	393-0173	393-0273
48090	Victor		382-8036	308-0836	383-0136	383-0236
48091	Victor		392-9099	309-0912/0915	393-0112	393-0212
48093	Victor		392-9088	309-0964		
48095	Victor		392-9094	309-0903	393-0103	393-0203
48096	Victor		392-9035	309-0935		
48097	Victor		382-8056 X	308-0856	383-0156	
48098	Victor		392-9112	309-0904	393-0104	393-0204
48297	C/R		372-7025 X			
48297	C/R		392-9021 X			
48297	C/R		392-9046 X			

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48298	C/R	320-2001 w/310-1021				
48690	C/R Classic		392-9034 X		393-0134	
48691	C/R		392-9034 X		393-0134	
48693	C/R		392-9034 X		393-0134	
48700	C/R		392-9034 X		393-0134	
48701	C/R		392-9034 X		393-0134	
4874N	National	460-6004				
48769	C/R		392-9019 X			
48776	C/R		392-9019 X			
48792	C/R		392-9019 X			
48794	C/R		382-8028			
48796	C/R		382-8045			
48844	C/R		392-9001			
48882	C/R		392-9132	309-0960		
48883	C/R		382-8028			
48884	C/R		392-9001			
48884	C/R		392-9062			
48886	C/R		382-8045			
49050	C/R		392-9131	309-0973	393-0173	393-0273
490577C92	Navistar		382-8056 X	308-0856	383-0156	
490578C91	Navistar	320-2181				
49966	C/R		392-9007			
500200C91	Navistar	320-2199				
5010196	Trailmobile	320-2110				
5010198	Trailmobile	315-1504				
50124	C/R		392-9007			
50148	C/R	320-2001				
50150	C/R	320-2001				
504081	C/R		392-9094	309-0903	393-0103	393-0203
506085	Eaton	343-4024				
506089	Eaton	343-4249				
506161	Eaton	330-3024				
50640	C/R		392-9131	309-0973	393-0173	393-0273
506635	Eaton	310-1048				
506775	Eaton		382-8064	308-0864	383-0164	383-0264
5076	C/R		392-9018			
507842C91	Navistar	320-2199				
507844C91	Navistar	320-2164				
509053	C/R		382-8017			
509154C91	Navistar		382-8045			
510589C91	Navistar	343-4049				
510589C93	Navistar	343-4101 X				
512656C1	Navistar	310-1048				
512657C1	Navistar	320-2110				
5141050	GMC/Volvo		382-8017			
521162	C/R		382-8052			
52658	C/R		392-9089	309-0948	393-0148	
52660	C/R		392-9089	309-0948	393-0148	
52664	C/R		392-9089	309-0948	393-0148	
527501	White		382-8010			
527502	White		382-8035 X			
527503	White		382-8034			
530088	Fruehauf	448-4836				
530480	Fruehauf		372-7099	307-0723	373-0123	373-0223
54395	C/R		392-9001			
54533HA	Navistar		392-9036			
5465	National		392-9057	309-0957		

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5471	National		372-7025 X			
5471	National		392-9021 X			
5471	National		392-9046 X			
5473	National		392-9001			
547915C91	Navistar		392-9099	309-0912/0915	393-0112	393-0212
5481	National		372-7025 X			
5481	National		392-9131	309-0973	393-0173	393-0273
548347C91	Navistar		392-9131	309-0973	393-0173	393-0273
548347C92	Navistar		392-9131	309-0973	393-0173	393-0273
54935	C/R		392-9001			
5495	National		392-9087	309-0970		
55122	C/R					
55172	C/R					
55175	C/R		392-9053			
55177	C/R		392-9053			
56153R91	Navistar		392-9021 X			
562932C1	Navistar		382-8028			
5667	National		392-9099	309-0915		
5751	National		392-9038			
578913C1	Navistar	320-2041				
58394	Eaton		392-9088	309-0964		
587989C91	Navistar		382-8056 X	308-0856	383-0156	
589822C91	Navistar		382-8053 X	308-0853	383-0153	
591587C1	Navistar		382-8056 X	308-0855		
594962C1	Navistar		392-9131	309-0973	393-0173	393-0273
594963C1	Navistar		392-9099	309-0912/0915	393-0112	393-0212
594964C1	Navistar		382-8064	308-0864	383-0164	383-0264
594965C1	Navistar		382-8066	308-0866	383-0166	
594966C1	Navistar		382-8053 X	308-0853	383-0153	
596555C1	Navistar		382-8036	308-0836	383-0136	383-0236
596556C1	Navistar		392-9001			
60501012	Trailmobile		372-7097	307-0743	373-0143	373-0243
61001G	TriSeal	330-3001				
61002G	TriSeal	330-3019				
61006G	TriSeal	330-3006				
61009G	TriSeal	330-3009				
61011G	TriSeal	330-3011				
61012G	TriSeal	330-3012				
61014G	TriSeal	330-3014 X				
61015G	TriSeal	330-3015				
61017G	TriSeal	330-3017				
61018G	TriSeal	330-3018 X				
61022G	TriSeal	330-3022				
61024G	TriSeal	330-3024				
61025G	TriSeal	330-3025				
61026G	TriSeal	330-3026 X				
61027G	TriSeal	330-3102				
61028G	TriSeal	330-3028				
61031G	TriSeal	330-3031				
61032G	TriSeal	330-3032				
61034G	TriSeal	330-3034				
61036G	TriSeal	330-3036				
61037G	TriSeal	330-3037				
61039G	TriSeal	330-3039				
61040G	TriSeal	330-3040				
61041G	TriSeal	330-3041				
61042G	TriSeal	330-3042				

Numbers with a red X indicate discontinued part numbers. Refer to Engineering Changes for more information.

¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

Information contained in this section is furnished as a guide. Verify specific application elsewhere in this catalog when possible.

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
61044G	TriSeal	330-3044				
61045G	TriSeal	330-3045				
61046G	TriSeal	330-3046				
61047G	TriSeal	330-3047 X				
61054G	TriSeal	330-3054				
61056G	TriSeal	330-3056				
61060G	TriSeal	330-3060				
61062G	TriSeal	330-3062				
61066G	TriSeal	330-3066				
61067G	TriSeal	330-3067				
61076G	TriSeal	330-3076 X				
61077G	TriSeal	330-3077				
61079G	TriSeal	330-3079				
61080G	TriSeal	330-3080				
61090G	TriSeal	330-3090				
61094G	TriSeal	330-3094				
61105G	TriSeal	330-3105				
61106G	TriSeal	330-3106				
61107G	TriSeal	330-3107				
61108G	TriSeal	330-3108				
61109G	TriSeal	330-3109				
61111G	TriSeal	330-3111				
61112G	TriSeal	330-3112				
61113G	TriSeal	330-3113				
61114G	TriSeal	330-3114				
62001	TriSeal	355-5501 X				
62002	TriSeal	355-5502 X				
62003	TriSeal	355-5503 X				
62005	TriSeal	355-5505 X				
62006	TriSeal	355-5506 X				
62007	TriSeal	355-5507 X				
62010	TriSeal	355-5510 X				
62016	TriSeal	355-5516 X				
6270	National		372-7018 X			
6270	National		382-8029 X			
6270	National		392-9018			
63003	TriSeal	310-1003 X				
63005	TriSeal	310-1005				
63006	TriSeal	310-1006 X				
63007	TriSeal	310-1007				
63008	TriSeal	310-1008				
63009	TriSeal	310-1009				
63010	TriSeal	310-1010 X				
63011	TriSeal	310-1011 X				
63012	TriSeal	310-1012 X				
63013	TriSeal	310-1013				
63014	TriSeal	310-1014 X				
63017	TriSeal	310-1017				
63018	TriSeal	310-1018				
63021	TriSeal	310-1021 X				
63026	TriSeal	310-1026 X				
63028	TriSeal	310-1028 X				
63029	TriSeal	310-1029 X				
63032	TriSeal	310-1032 X				
63034	TriSeal	310-1034 X				
63035	TriSeal	310-1035 X				
63037	TriSeal	310-1037				

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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CROSS REFERENCE

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CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
63038	TriSeal	310-1038 X				
63041	TriSeal	310-1041				
63043	TriSeal	310-1043				
63044	TriSeal		310-1044 X			
63047	TriSeal		310-1047 X			
63050	TriSeal		310-1050			
63051	TriSeal		310-1051			
63052	TriSeal		310-1052			
63053	TriSeal		310-1053			
63054	TriSeal		310-1054 X			
63057	TriSeal		310-1057			
63062	TriSeal		310-1062			
63063	TriSeal		310-1063			
63064	TriSeal		310-1064			
63079	TriSeal		310-1079			
63080	TriSeal		310-1080 X			
63083	TriSeal		310-1083 X			
63088	TriSeal		310-1088			
63091	TriSeal		310-1091 X			
63092	TriSeal		310-1092 X			
63093	TriSeal		310-1093 X			
63095	TriSeal		310-1095 X			
63H13	Crane	343-4264				
63H16	Crane	343-4095				
63H7	Crane	343-4009				
64002	TriSeal	343-4019				
64006	TriSeal	343-4006				
64009	TriSeal	343-4009				
64009H	TriSeal	347-4009				
64012	TriSeal	343-4012 X				
64013	TriSeal	343-4013				
64014	TriSeal	340-4014 X				
64018	TriSeal	343-4018 X				
64024	TriSeal	343-4024				
64025	TriSeal	343-4025				
64028	TriSeal	343-4028				
64029	TriSeal	343-4186				
64034	TriSeal	343-4034				
64042	TriSeal	343-4042				
64046	TriSeal	343-4046				
64046	TriSeal	343-4095				
64046	TriSeal	343-4249				
64049	TriSeal	343-4049				
64059	TriSeal	343-4059				
64065	TriSeal	343-4065				
64066	TriSeal	343-4066				
64075A	TriSeal	343-4075				
64075G	TriSeal	342-4075				
64075P	TriSeal	340-4975				
64092	TriSeal	343-4092				
64098	TriSeal	343-4098				
64249	TriSeal	343-4249				
64656	Eaton	460-6006				
64999	TriSeal	359-5990				
65000U	TriSeal			382-8053 X	308-0853	383-0153
65000W	TriSeal			382-8052		
65000W	TriSeal			382-8053 X	308-0853	383-0153

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
65005	TriSeal			382-8009		
65011W	TriSeal			392-9035	309-0935	
65011W	TriSeal		392-9036			
65016	TriSeal		382-8017			
65024U	TriSeal		392-9099	309-0915		
65027	TriSeal		392-9045			
65027U	TriSeal		392-9045			
65028	TriSeal		372-7025 X			
65028	TriSeal		392-9046 X			
65030U	TriSeal		392-9089	309-0948	393-0148	
65030W	TriSeal		392-9089	309-0948	393-0148	
65044	TriSeal		392-9007			
65052W	TriSeal		392-9099	309-0912/0915	393-0112	393-0212
65054W	TriSeal		392-9057	309-0957		
65055W	TriSeal		382-8044			
65056U	TriSeal		392-9131	309-0973	393-0173	393-0273
65056W	TriSeal		392-9131	309-0973	393-0173	393-0273
65060U	TriSeal		372-7097	307-0743	373-0143	373-0243
65060W	TriSeal		372-7097	307-0743	373-0143	373-0243
65065W	TriSeal		392-9020 X			
65065W	TriSeal		392-9132	309-0960		
65069	TriSeal		382-8027			
65070	TriSeal		392-9054 X			
65071U	TriSeal		392-9112	309-0904	393-0104	393-0204
65071U	TriSeal		392-9130	309-0904	393-0104	393-0204
65071W	TriSeal		392-9112	309-0904	393-0104	393-0204
65072W	TriSeal		392-9088	309-0964		
65073W	TriSeal		372-7005 X			
65073W	TriSeal		372-7006			
65073W	TriSeal		372-7008 X			
65073W	TriSeal		372-7056 X			
65073W	TriSeal		382-8011			
65078U	TriSeal		382-8056 X	308-0856	383-0156	
65078W	TriSeal		382-8056 X	308-0856	383-0156	
65084W	TriSeal		392-9088	309-0964		
65092U	TriSeal		382-8064	308-0864	383-0164	383-0264
65092W	TriSeal		382-8064	308-0864	383-0164	383-0264
65111U	TriSeal		392-9035	309-0935		
65116U	TriSeal		382-8017			
65120U	TriSeal					
65152U	TriSeal		392-9099	309-0912/0915	393-0112	393-0212
65156U	TriSeal		392-9131	309-0973	393-0173	393-0273
65165U	TriSeal		392-9081	309-0960		
65165U	TriSeal		392-9132	309-0960		
65172U	TriSeal		392-9088	309-0964		
65184U	TriSeal		392-9096	309-0965		
65261U	TriSeal		372-7098	307-0713	373-0113	373-0213
65261W	TriSeal		372-7003			
65261W	TriSeal		372-7098	307-0713	373-0113	373-0213
65262U	TriSeal		372-7099	307-0723	373-0123	373-0223
65262W	TriSeal		372-7022			
65262W	TriSeal		372-7099	307-0723	373-0123	373-0223
65262W	TriSeal		382-8060			
65263U	TriSeal		382-8036	308-0836	383-0136	383-0236
65263W	TriSeal		382-8036	308-0836	383-0136	383-0236
65267	TriSeal		382-8029			
65267	TriSeal		392-9018			

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² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
65269W	TriSeal		392-9001			
65269W	TriSeal					
65270U	TriSeal		392-9094	309-0903	393-0103	393-0203
65270W	TriSeal		392-9094	309-0903	393-0103	393-0203
65271W	TriSeal		372-7026 X			
65271W	TriSeal		372-7027 X			
65271W	TriSeal		372-7028 X			
65271W	TriSeal		372-7091 X		373-0191	
65272W	TriSeal		392-9094	309-0903	393-0103	393-0203
65275	TriSeal		392-9010 X			
65276	TriSeal		392-9099	309-0912/0915	393-0112	393-0212
65277W	TriSeal		392-9095	309-0961		
65280	TriSeal		372-7046			
65280	TriSeal		382-8018 X			
65283U	TriSeal		392-9087	309-0970		
65283W	TriSeal		392-9087	309-0970		
65285W	TriSeal		392-9092	309-0965		
65287W	TriSeal		382-8028			
65287W	TriSeal		392-9043 X			
65289	TriSeal		382-8032			
65291U	TriSeal		382-8034			
65291W	TriSeal		382-8034			
65292	TriSeal		382-8035 X			
65293	TriSeal		382-8010			
65294	TriSeal		382-8023 X			
65294	TriSeal		382-8039 X			
65294U	TriSeal		382-8023 X			
65294U	TriSeal		382-8039 X		383-0139	383-0239
65297W	TriSeal		392-9054 X			
65298U	TriSeal		372-7095 X	307-0744	373-0144	
65298W	TriSeal		372-7095 X	307-0744	373-0144	
65299	TriSeal		372-7004 X			
65299	TriSeal		372-7015			
65299	TriSeal		372-7017 X			
65299	TriSeal		382-8045			
657810	GMC/Volvo		392-9057	309-0957		
6584S	National		382-8017			
663043R91	Navistar		392-9010 X			
663477	GMC/Volvo		382-8017			
663484	GMC/Volvo		382-8018 X³			
6635S	National		392-9095	309-0961		
6638S	National		382-8036	308-0836	383-0136	383-0236
67003	TriSeal	357-5706 X				
67006	TriSeal	356-5606				
67007	TriSeal	364-6402				
67008	TriSeal	364-6435				
67009	TriSeal	310-1103				
67013	TriSeal	310-1013				
67014	TriSeal	310-1114 X				
67023	TriSeal	310-1023 X				
67036	TriSeal	310-1036				
67038	TriSeal	310-1038 X				
67048	TriSeal	310-1048				
67067	TriSeal	310-1067				
67090	TriSeal	310-1111 X				
67093	TriSeal	310-1093 X				
67094	TriSeal	310-1111 X				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
674237	GMC/Volvo		382-8028			
675711	White		392-9088	309-0964		
6780S	National		382-8018 X			
68013	TriSeal	315-1507				
68023	TriSeal	315-1503				
680272R92	Navistar	343-4046				
680272R92	Navistar	343-4249				
680299R1	Navistar	310-1028 X				
680299R91	Navistar		382-8028			
6804010425	Freightliner	343-4281				
68048	TriSeal	315-1504				
68088	TriSeal	315-1515				
68093	TriSeal	315-1517 X				
68094	TriSeal	315-1502				
6809970049	Freightliner	330-3040				
681277	White		392-9095	309-0961		
681365R2	Navistar	310-1079				
6814010225	Freightliner	343-4095				
6819970046	Mercedes		392-9099	309-0912/0915	393-0112	393-0212
6819970046	Freightliner		392-9099	309-0912/0915	393-0112	393-0212
6819970446	Freightliner		382-8036	308-0836	383-0136	383-0236
6819970546	Freightliner		392-9131	309-0973	393-0173	393-0273
682809	GMC/Volvo		382-8010			
683590	GMC/Volvo		392-9018			
683591	GMC/Volvo		392-9057	309-0957		
68380	Eaton		392-9096	309-0965		
685215	GMC/Volvo	320-2106				
685216	GMC/Volvo	320-2106				
68537R1	Navistar		392-9021 X			
68537R91	Navistar		392-9021 X			
686059	GMC/Volvo	343-4066				
6864S	National		392-9057	309-0957		
686996	GMC/Volvo	320-2216 X				
6872S	National		392-9021 X			
6872S	National		392-9131	309-0973	393-0173	393-0273
6873S	National		392-9001			
688316	GMC/Volvo	320-2091 X				
688319	GMC/Volvo	320-2091 X				
69307R91	Navistar		392-9035	309-0935		
69502	TriSeal	320-2041	372-7004 X			
69507	TriSeal		372-7009 X			
69510	TriSeal		372-7098	307-0713	373-0113	373-0213
69512	TriSeal		372-7015			
69514	TriSeal		372-7017 X			
69517	TriSeal		372-7020 X			
69520	TriSeal		372-7099	307-0723	373-0123	373-0223
69522	TriSeal		372-7025 X			
69523	TriSeal		372-7026 X			
69524	TriSeal		372-7027 X			
69538	TriSeal		372-7028 X			
69539	TriSeal		372-7049			
69541	TriSeal		372-7091 X		373-0191	
69589	TriSeal		372-7005 X			
69590	TriSeal		372-7006			
69591	TriSeal		372-7008 X			
69593	TriSeal		372-7003			
69594	TriSeal		372-7022			

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
69596	TriSeal		372-7099	307-0723	373-0123	373-0223
69597	TriSeal		372-7098	307-0713	373-0113	373-0213
69598	TriSeal		372-7097	307-0743	373-0143	373-0243
69599	TriSeal		372-7095	307-0744	373-0144	
69603	TriSeal		382-8009			
69604	TriSeal		382-8010			
69611	TriSeal		382-8017			
69612	TriSeal		382-8018 X			
69616	TriSeal		382-8023 X			
69622	TriSeal		382-8032			
69625	TriSeal		382-8035 X			
69628	TriSeal		382-8039 X		383-0139	383-0239
69636	TriSeal		382-8027			
69640	TriSeal		382-8045			
69642	TriSeal		382-8063	308-0863		
69644	TriSeal		382-8062			
69645	TriSeal		382-8066	308-0866	383-0166	
69689	TriSeal		382-8011			
69690	TriSeal		382-8028			
69691	TriSeal		382-8052			
69692	TriSeal		382-8053 X	308-0853	383-0153	
69693	TriSeal		382-8034			
69695	TriSeal		382-8044			
69696	TriSeal		382-8056 X	308-0856	383-0156	
69697	TriSeal		382-8064	308-0864	383-0164	383-0264
69698	TriSeal		382-8060			
69699	TriSeal		382-8036	308-0836	383-0136	383-0236
69705	TriSeal		392-9010 X			
69706	TriSeal		392-9099	309-0912/0915	393-0112	393-0212
69711	TriSeal		392-9018			
69730	TriSeal		392-9038			
69743	TriSeal		392-9045			
69750	TriSeal		392-9007			
69751	TriSeal		392-9020 X			
69753	TriSeal		392-9054 X			
69759	TriSeal		392-9062			
69780	TriSeal		392-9019			
69781	TriSeal		392-9089	309-0948	393-0148	
69782	TriSeal		392-9062			
69783	TriSeal		392-9001			
69784	TriSeal		392-9043 X			
69785	TriSeal		392-9035	309-0935		
69786	TriSeal		392-9036			
69787	TriSeal		392-9057	309-0957		
69788	TriSeal		392-9112	309-0904	393-0104	393-0204
69789	TriSeal		392-9087	309-0970		
69790	TriSeal		392-9032			
69791	TriSeal		392-9088	309-0964		
69792	TriSeal		392-9092	309-0965		
69794	TriSeal		392-9099	309-0912/0915	393-0112	393-0212
69795	TriSeal		392-9095	309-0961		
69797	TriSeal		392-9096	309-0965		
69798	TriSeal		392-9132	309-0960		
69799	TriSeal		392-9131	309-0973	393-0173	393-0273
698764R1	Navistar		372-7098	307-0713	373-0113	373-0213
70012600E	Trailmobile	343-4009				
700126CD	Trailmobile	343-4013				

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² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

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7003942	Western Star	343-4249				
70065	National		392-9087	309-0970		
701661	GMC/Volvo	315-1502				
701679	GMC/Volvo	320-2115				
7023479	Meritor	343-4095				
705400P	Mechanex/Barrier		382-8036	308-0836	383-0136	383-0236
70541	TriSeal		372-7091 X		373-0191	
70596	TriSeal		372-7099	307-0723	373-0123	373-0223
70597	TriSeal		372-7098	307-0713	373-0113	373-0213
70598	TriSeal		372-7097	307-0743	373-0143	373-0243
70599	TriSeal		372-7095	307-0744	373-0144	
7074450	Western Star	320-2106				
70781	TriSeal		392-9089	309-0948	393-0148	
70788	TriSeal		392-9112	309-0904	393-0104	393-0204
70789	TriSeal		392-9087	309-0970		
70791	TriSeal		392-9088	309-0964		
70794	TriSeal		392-9099	309-0912/0915	393-0112	393-0212
70796	TriSeal		392-9094	309-0903	393-0103	393-0203
70797	TriSeal		392-9096	309-0965		
70798	TriSeal		392-9132	309-0960		
70799	TriSeal		392-9131	309-0973	393-0173	393-0273
710356	GMC/Volvo		382-8017			
710536	GMC/Volvo		382-8017			
712832	GMC/Volvo	382-8034				
712834	GMC/Volvo		392-9099	309-0912/0915	393-0112	393-0212
719021	C/R	330-3077				
720659	GMC/Volvo		372-7097	307-0743	373-0143	373-0243
730001	National	330-3028				
730003	National	330-3025				
730003	National	330-3035				
730004	National	330-3024				
730005	National	330-3008 X				
730006	National	330-3046				
730008	National	330-3040				
730009	National	330-3019				
730016	National	330-3041				
730017	National	330-3044				
730018	National	330-3006				
730019	National	330-3031				
730022	National	330-3011				
730024	National	330-3060				
730026	National	330-3012				
730027	National	330-3034				
730030	National	330-3056				
730031	National	330-3037				
730149	National	330-3097				
733067	National	330-3009/3067				
733105	National	330-3105				
733106	National	330-3106				
733107	National	330-3107				
733108	National	330-3108				
733109	National	330-3109				
733110	National	330-3110				
733111	National	330-3111				
733112	National	330-3112				
733113	National	330-3113				
733114	National	330-3114				

Numbers with a red **X** indicate discontinued part numbers. Refer to Engineering Changes for more information.

¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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CROSS REFERENCE

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CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
733115	National	330-3115				
7378	National		392-9087	309-0970		
741147	GMC/Volvo		392-9032			
745400P	Mechanex/Barrier		372-7099	307-0723	373-0123	373-0223
747400P	Mechanex/Barrier		372-7098	307-0713	373-0113	373-0213
747400P	Mechanex/Barrier		392-9032			
749400P	Mechanex/Barrier		372-7095	307-0744	373-0144	
755400P	Mechanex/Barrier		372-7097	307-0743	373-0143	373-0243
761400P	Mechanex/Barrier		392-9131	309-0973	393-0173	393-0273
770400P	Mechanex/Barrier		392-9099	309-0912/0915	393-0112	393-0212
771723C91	Navistar		392-9088	309-0964		
775698C91	Navistar		392-9131	309-0973	393-0173	393-0273
780055C91	Navistar	320-2092 X				
780316C91	Navistar		382-8053 X	308-0853	383-0153	
781265C91	Navistar	343-4249				
781565C92	Navistar	343-4250				
785400P	Mechanex/Barrier		392-9094	309-0903	393-0103	393-0203
7866S	National		382-8028			
7866S	National		392-9043 X			
794408C91	Navistar		382-8064	308-0864	383-0164	383-0264
79470	Eaton	460-6002				
7EQ1175A	Ford		392-9018			
7EQH1175	Ford		392-9099	309-0912/0915	393-0112	393-0212
8061231	GMC/Valvo	330-3009				
8069924	GMC/Valvo	343-4024				
806994	GMC/Valvo	343-4024				
810196	Eaton	320-2137				
810197	Eaton	310-1037 X				
812928	Eaton	343-4095				
815214	Eaton	343-4195				
815215	Eaton		372-7099	307-0723	373-0123	373-0223
815312	Eaton	330-3106				
815996	Eaton	343-4264				
81774	C/R	310-1111 X				
820394	Eaton	447-4743				
820395	Eaton	447-4743				
821187	Eaton	340-5098				
821338	Eaton	343-4009				
821345	Eaton	310-1036				
821346	Eaton	320-2036 X				
821601	Eaton		372-7097	307-0743	373-0143	373-0243
821604	Eaton	315-1504				
821610	Eaton	320-2110				
821615	Eaton	340-4119				
821907	Eaton	343-4009				
847	NOK		382-8036	308-0836	383-0136	383-0236
848	NOK		392-9099	309-0915	393-0115	
849	NOK		392-9099	309-0912/0915	393-0112	393-0212
850	NOK		372-7098	307-0713	373-0113	373-0213
851	NOK		372-7099	307-0723	373-0123	373-0223
852	NOK		392-9112	309-0904	393-0104	393-0204
853	NOK		372-7095	307-0744	373-0144	
854	NOK		392-9092	309-0965		
854945	GMC/Valvo	460-6005 X				
855	NOK		382-8053 X	308-0853	383-0153	
856	NOK		392-9094	309-0903	393-0103	393-0203
857	NOK		382-8056 X	308-0856	383-0156	

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

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CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
858	NOK		392-9088	309-0964		
858381	GMC/Volvo	343-4024				
858381	Western Star	343-4024				
859	NOK		372-7097	307-0743	373-0143	373-0243
860	NOK		392-9132	309-0960		
861	NOK		392-9131	309-0973	393-0173	393-0273
86109	Trailmobile	347-4009				
862500	GMC/Volvo	343-4009				
862500	Western Star	343-4009				
862501	Western Star	330-3009/3067				
862739C91	Navistar		392-9036			
862935C1	Navistar	310-1063				
863	NOK		382-8064	308-0864	383-0164	383-0264
864643C91	Navistar		392-9099	309-0912/0915		
864643C92	Navistar		392-9099	309-0912/0915		
864784C91	Navistar		392-9099	309-0912/0915		
8668	Trailmobile	340/343-4009				
868861R1	Navistar	330-3024				
870485C91	Navistar		392-9088	309-0964		
870889C91	Navistar		382-8064	308-0864	383-0164	383-0264
870890C91	Navistar		382-8064	308-0864	383-0164	383-0264
8720	Trailmobile	330-3009				
875188R2	Navistar		392-9099	309-0912/0915		
876235R91	Navistar		382-8029 X			
88319	NOK			309-0973	393-0173	393-0273
88327	Eaton		392-9062			
8872	National		382-8064	308-0864	383-0164	383-0264
8873095	GMC/Volvo	460-6006				
8873424	GMC/Volvo	310-1014 X				
889246	White	460-6007				
88AX110	Mack		382-8023 X			
88AX110	Mack		382-8039 X		383-0139	383-0239
88AX177	Mack		392-9094	309-0903	393-0103	393-0203
88AX305	Mack		382-8023 X			
88AX305	Mack		382-8039 X		383-0139	383-0239
88AX354P2	Mack	429-0009				
88AX372	Mack		392-9098	309-0948	393-0148	
88AX374	Mack		392-9007			
88AX375	Mack		392-9089	309-0948	393-0148	
88AX376	Mack		392-9089	309-0948	393-0148	
88AX378	Mack		392-9007			
88AX382	Mack		392-9089	309-0948	393-0148	
88AX402	Mack		392-9089	309-0948	393-0148	
88AX403	Mack		392-9089	309-0948	393-0148	
88AX404	Mack		392-9089	309-0948	393-0148	
88AX405	Mack		392-9112	309-0904	393-0104	393-0204
88AX407	Mack		392-9094	309-0903	393-0103	393-0203
88AX418	Mack		392-9112	309-0904	393-0104	393-0204
88AX420	Mack		392-9131	309-0973	393-0173	393-0273
88AX421	Mack		392-9094	309-0903	393-0103	393-0203
88AX424	Mack		392-9089	309-0948	393-0148	
88AX427	Mack		392-9096	309-0965		
88AX432	Mack	320-2009				
88AX443	Mack		392-9081	309-0960		
88AX448	Mack		392-9112	309-0904	393-0104	393-0204
88AX450	Mack		392-9132	309-0960		
88AX456	Mack	429-0008				

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¹ When using HM516449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
88AX457	Mack	429-0009				
88AX458	Mack	429-0002				
88AX461	Mack		392-9131	309-0973	393-0173	393-0273
88AX466	Mack		392-9112	309-0904	393-0104	393-0204
88AX467	Mack		392-9094	309-0903	393-0103	393-0203
88AX469	Mack		382-8064	308-0864	383-0164	383-0264
88AX59	Mack		392-9032			
88AX59P3	Mack		392-9032			
88AX65	Mack		392-9007			
88AX70	Mack		382-8011			
88AX72	Mack		392-9019 X			
88AX97	Mack		382-8011			
88AZ110	Mack	320-2039 X				
88AZ110P1	Mack		382-8039 X		383-0139	383-0239
891016	Western Star	320-2001				
896941R91	Navistar		382-8064	308-0864	383-0164	383-0264
8976S	National		382-8009			
898235R92	Navistar	320-2114				
898235R93	Navistar		392-9096	309-0965		
900868	Trailmobile	343-4075				
9015S	National		392-9131	309-0973	393-0173	393-0273
9022299832	Heil	343-4075				
9022299868	Heil		372-7099	307-0723	373-0123	373-0223
90501017	Trailmobile		372-7097	307-0743	373-0143	373-0243
90501018	Trailmobile	320-2023				
90501019	Trailmobile	315-1503				
9128S	National		392-9045			
9156004	GMC/Valvo	310-1010				
921010001	Western Star	330-3097				
921010002	GMC/Valvo	343-4024				
921010003	GMC/Valvo	343-4046				
921010005	GMC/Valvo	343-4042				
921010006	GMC/Valvo	343-4042				
921010007	GMC/Valvo	343-4042				
921010008	GMC/Valvo	343-4042				
921010009	GMC/Valvo	340/343-4009				
921010024	GMC/Valvo	340-4119				
921010034	GMC/Valvo	343-4095				
921010043	GMC/Valvo	343-4281				
921015015	GMC/Valvo	343-4009				
921020001	GMC/Valvo	330-3097				
921030002	GMC/Valvo	359-5990				
925172R91	Navistar		382-8028			
925173R91	Navistar		382-8028			
92794	GMC/Valvo	460-6005 X				
93333R91	Navistar		382-8017			
9339S	National		382-8036	308-0836	383-0136	383-0236
940010001	GMC/Valvo		382-8064	308-0864	383-0164	383-0264
940010002	GMC/Valvo	320-2099				
940010002	Western Star	320-2099				
940010003	GMC/Valvo		392-9062			
940010004	GMC/Valvo	320-2036 X				
940010004	Western Star	320-2036 X				
940010005	GMC/Valvo	320-2137				
940010005	Western Star	320-2137				
940010006	GMC/Valvo		372-7097	307-0743	373-0143	373-0243
940010007	GMC/Valvo		392-9053			

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³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
940010010	GMC/Valvo		382-8036	308-0836	383-0136	383-0236
940010011	GMC/Valvo		392-9087	309-0970		
940010013	GMC/Valvo		392-9087	309-0970		
940010013	Western Star	320-2162				
940010014	GMC/Valvo		382-8036	308-0836	383-0136	383-0236
940010015	GMC/Valvo		392-9087	309-0970		
940010017	GMC/Valvo		392-9099	309-0912		
940010019	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
940010021	GMC/Valvo		382-8036	308-0836	383-0136	383-0236
940010022	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
940010022	Western Star		392-9131	309-0973	393-0173	393-0273
940010028	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
940010029	GMC/Valvo		382-8036	308-0836	383-0136	383-0236
940010030	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
940010034	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
940010038	GMC/Valvo		382-8064	308-0864	383-0164	383-0264
940010039	GMC/Valvo		382-8036	308-0836	383-0136	383-0236
940010040	GMC/Valvo		392-9131	309-0973	393-0173	393-0273
940013401	GMC/Valvo	310-1048				
940013406	GMC/Valvo	320-2110				
940013406	Western Star	320-2110				
940013409	GMC/Valvo		372-7097	307-0743	373-0143	373-0243
940013410	GMC/Valvo		372-7097	307-0743	373-0143	373-0243
940013412	Western Star		372-7097	307-0743	373-0143	373-0243
940013602	GMC/Valvo		392-9081	309-0960		
940013604	GMC/Valvo		382-8036	308-0836	383-0136	383-0236
940013606	GMC/Valvo		382-8045			
940013802	GMC/Valvo	320-2109				
940013804	GMC/Valvo	320-2110				
940013902	Western Star		382-8064	308-0864	383-0164	383-0264
940015001	Western Star		382-8036	308-0836	383-0136	383-0236
940040001	GMC/Valvo	310-1089				
940040001	Western Star	310-1089				
940040002	Western Star	310-1103				
940040003	GMC/Valvo	310-1095 X				
940040004	Western Star	310-1036				
940040007	GMC/Valvo	315-1502				
940040007	Western Star	315-1502				
940043401	Western Star	310-1048				
940043802	GMC/Valvo	315-1504				
94RU150	Mack	359-5990				
94RU19309	Mack	330-3024				
94RU262	Mack	330-3025				
94RU263	Mack	330-3009/3067				
94RU263P2	Mack	330-3097				
94RU263P3	Mack	330-3122				
94RU264	Mack	330-3046				
94RU265	Mack	330-3008				
94RU266	Mack	330-3031				
94RU267	Mack	330-3046				
94RU278	Mack	330-3012				
95357	Eaton		392-9099	309-0912/0915		
9584	National		392-9035	309-0935		
966446R91	Navistar	460-6001				
968191R92	Navistar	343-4036				
971118R1	Navistar					
972401R91	Navistar		392-9099	309-0912/0915		

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
972424R91	Navistar	460-6012				
974526R91	Navistar		392-9131	309-0973	393-0173	393-0273
974644R1	Navistar		392-9021 X			
974644R1	Navistar		392-9046 X			
974644R91	Navistar		392-9021 X			
974644R91	Navistar		392-9046 X			
982259R91	Navistar		392-9001			
983006R91	Navistar		392-9095	309-0961		
983570R1	Navistar		392-9131	309-0973	393-0173	393-0273
992481C91	Navistar		382-8066	308-0866	383-0166	
992484C91	Navistar		382-8056 X	308-0856	383-0156	
992485C91	Navistar		382-8056 X	308-0856	383-0156	
A11244C393	Meritor	310-1095 X				
A1205A1925	Meritor	460-6004				
A1205B1250	Meritor	320-2110				
A1205B1926	Meritor	460-6011				
A1205B2264	Meritor		382-8036	308-0836	383-0136	383-0236
A1205B574	Meritor		392-9057	309-0957		
A1205C1381	Meritor	320-2105				
A1205C1719	Meritor		382-8071			
A1205C1875	Meritor		372-7098	307-0713	373-0113	373-0213
A1205C1875	Meritor		392-9032			
A1205C1927	Meritor	460-6007				
A1205C2343	Meritor		372-7097	307-0743	373-0143	373-0243
A1205D1070	Meritor	320-2137				
A1205D2526	Meritor		392-9099	309-0912	393-0112	393-0212
A1205D2578	Meritor		382-8064	308-0864	383-0164	383-0264
A1205E1071	Meritor	320-2036 X				
A1205E1253	Meritor		392-9057	309-0957		
A1205E1799	Meritor		372-7098	307-0713	373-0113	373-0213
A1205E2475	Meritor		382-8036	308-0836	383-0136	383-0236
A1205F136	Meritor		382-8001 X		383-0101	
A1205F2554	Meritor		382-8066	308-0866	383-0166	
A1205G1515	Meritor		382-8063	308-0863		
A1205G2191	Meritor		372-7097	307-0743	373-0143	373-0243
A1205G2503	Meritor		392-9099	309-0912	393-0112	393-0212
A1205G631	Meritor		382-8036	308-0836	383-0136	383-0236
A1205G735	Meritor		392-9038			
A1205H1100	Meritor	320-2061				
A1205H762	Meritor		382-8028			
A1205J1934	Meritor	460-6005 X				
A1205J2194	Meritor		392-9131	309-0973	393-0173	393-0273
A1205J2350	Meritor		392-9132	309-0960		
A1205J2428	Meritor	460-6011				
A1205J634	Meritor		392-9095	309-0961		
A1205J998	Meritor	460-6001				
A1205K1285	Meritor	320-2106				
A1205K2013	Meritor		382-8001 X		383-0101	
A1205K2351	Meritor		372-7099	307-0723	373-0123	373-0223
A1205K999	Meritor		372-7097	307-0743	373-0143	373-0243
A1205L1338	Meritor		382-8036	308-0836	383-0136	383-0236
A1205L1546	Meritor		392-9034 X		393-0134	
A1205L1598	Meritor		372-7097	307-0743	373-0143	373-0243
A1205L2352	Meritor		392-9131	309-0973	393-0173	393-0273
A1205L714	Meritor	460-6003				
A1205M1339	Meritor		382-8064	308-0864		
A1205M1625	Meritor		392-9033 X			

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
A1205M897	Meritor		372-7098	307-0713	373-0113	
A1205N1912	Meritor		382-8036	308-0836	383-0136	383-0236
A1205N898	Meritor		372-7095	307-0744	373-0144	
A1205P1108	Meritor		382-8064	308-0864	383-0164	383-0264
A1205P1212	Meritor		372-7097	307-0743	373-0143	373-0243
A1205P1888	Meritor		372-7099	307-0723	373-0123	373-0223
A1205P276	Meritor		392-9038			
A1205P666	Meritor		392-9034 X		393-0134	
A1205Q1889	Meritor		372-7099	307-0713	373-0123	373-0223
A1205Q1915	Meritor	460-6012				
A1205Q2487	Meritor		392-9131	309-0973	393-0173	393-0273
A1205R1630	Meritor		392-9087	309-0970		
A1205R2410	Meritor		392-9131	309-0973	393-0173	393-0273
A1205R2566	Meritor		372-7097	307-0743	373-0143	373-0243
A1205S2307	Meritor		382-8064	308-0864	383-0164	383-0264
A1205S669	Meritor		382-8018 X			
A1205T1502	Meritor		392-9038			
A1205T1814	Meritor		392-9007			
A1205T436	Meritor		382-8029 X			
A1205T670	Meritor		392-9033 X			
A1205T696	Meritor		392-9131	309-0973	393-0173	393-0273
A1205T774	Meritor		392-9053			
A1205U1061	Meritor		392-9131	309-0973	393-0173	393-0273
A1205U1659	Meritor	320-2099				
A1205U1711	Meritor	320-2133				
A1205U1737	Meritor	460-6006				
A1205U2101	Meritor		392-9131	309-0973	393-0173	393-0273
A1205U2205	Meritor		372-7062			
A1205U2491	Meritor		382-8036	308-0836	383-0136	383-0236
A1205U697	Meritor		392-9087	309-0970		
A1205V1192	Meritor	320-2086				
A1205V2102	Meritor		382-8044			
A1205V2180	Meritor		392-9131	309-0973	393-0173	393-0273
A1205V2492	Meritor		392-9131	309-0973	393-0173	393-0273
A1205W1349	Meritor		392-9099	309-0912/0915		
A1205W1375	Meritor		382-8036	308-0836	383-0136	383-0236
A1205W1557	Meritor		392-9035	309-0935		
A1205W1557	Meritor		392-9036			
A1205X1662	Meritor		372-7097	307-0743	373-0143	373-0243
A1205X2702	Meritor		372-7097	307-0743	373-0143	373-0243
A1205X700	Meritor		392-9001			
A1205Y1559	Meritor		372-7018 X			
A1205Y1559	Meritor		392-9018			
A1205Y1715	Meritor		382-8044			
A1205Y1975	Meritor		372-7099	307-0723	373-0123	373-0223
A1205Y727	Meritor	460-6006				
A1205Z1638	Meritor		382-8045			
A1205Z1742	Meritor	320-2104				
A1205Z1820	Meritor		392-9053			
A1205Z2470	Meritor		392-9099	309-0912/0915		
A1205Z364	Meritor		382-8001 X			
A1205Z780	Meritor	382-8064	308-0864			
A1244C393	Meritor	310-1095 X				
A1244V1556	Meritor	310-1093 X				
A-1227-A-105	Meritor	448-4836				
A-1227-S-331	Meritor	449-4973				
A1805E369	Meritor		382-8017			

Numbers with a red X indicate discontinued part numbers. Refer to Engineering Changes for more information.

¹ When using HM516449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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CROSS REFERENCE

Information contained in this section is furnished as a guide. Verify specific application elsewhere in this catalog when possible.

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
A1805S615	Meritor		392-9094	309-0903	393-0103	393-0203
A1805U723	Meritor		382-8017			
A1805V542	Meritor		392-9131	309-0973	393-0173	393-0273
A1805W725	Meritor		372-7018 X			
A1805W725	Meritor		392-9018			
A205F1032	Meritor		392-9033 X			
A205F1043	Meritor		392-9033 X			
A2208N820	Meritor	330-3097				
A3262A1353	Meritor	343-4176				
A3262C133	Meritor	343-4009				
A3262D264	Meritor	343-4249				
A3262F214	Meritor	343-4049				
A3262G1177	Meritor	343-4095				
A3262G215	Meritor	343-4024				
A3262H1048	Meritor	347-4009				
A3262H398	Meritor	343-4009				
A3262J1180	Meritor	343-4195				
A3262J166	Meritor	343-4080				
A3262M1183	Meritor	341-4009				
A3262Q277	Meritor	343-4065				
A3262Q407	Meritor	343-4075				
A3262T1216	Meritor	343-4024				
A545634	Fruehauf		372-7003			
ACA5207	Fruehauf		372-7099	307-0723	373-0123	373-0223
ACA52071	Fruehauf		372-7099	307-0723	373-0123	373-0223
ACE55171	Fruehauf		372-7099	307-0723	373-0123	373-0223
ACE-8510-001	Fruehauf	447-4723				
ACF006562	Fruehauf		372-7099	307-0723	373-0123	373-0223
ACF6562	Fruehauf		372-7099	307-0723	373-0123	373-0223
AR10	National	310-1041				
AR12	National	310-1038 X				
AR2	National	310-1022				
AR20	National	310-1095 X				
AR4	National	310-1051				
AR5	National	310-1050				
AR6	National	310-1032 X				
AX12-1500	Axilok	448-4836				
AX12-3250	Axilok	449-4973				
AX12-3480	Axilok	447-4723				
AX12-3500	Axilok	447-4724				
AX16-2625	Axilok	447-4743				
AX18-1500	Axilok	448-4837				
AXA0043	Fruehauf		372-7099	307-0723	373-0123	373-0223
B370131BGO	National		382-8056 X	308-0856	383-0156	
B6J1175A	Ford		392-9038			
B6Q1175A	Ford		392-9035	309-0935		
C3TA1190A	Ford		382-8005			
C3TZ1190A	Ford		382-8005			
C3TZ1190C	Ford		382-8018 X			
C5TA1190B	Ford		382-8064	308-0864	383-0164	383-0264
C5TA1190D	Ford		382-8027			
C5TZ1190B	Ford		382-8064	308-0864	383-0164	383-0264
C5TZ1190D	Ford		382-8027			
C9HA1190A	Ford		382-8044			
C9HA1190B	Ford		382-8045			
C9HS1131A	Ford	343-4092				
C9HZ1175A	Ford		392-9096	309-0965		

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

Information contained in this section is furnished as a guide. Verify specific application elsewhere in this catalog when possible.

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
C9HZ1175B	Ford		392-9088	309-0964		
C9HZ1190A	Ford		382-8044			
C9HZ1190B	Ford		382-8045			
DOHA1131T	Ford	343-4028				
DOHA1131U	Ford	343-4024				
DOHA1153M	Ford	330-3012				
DOHA1153R	Ford	330-3024				
DOHA1153S	Ford	330-3040				
DOHA1153T	Ford	330-3028				
DOHA1190S	Ford	320-2105				
DOHA3B304C	Ford	310-1008				
DOHZ1131A	Ford	343-4065				
DOHZ1131B	Ford	343-4186				
DOHZ1131C	Ford	343-4024				
DOHZ1131F	Ford	343-4092				
DOHZ1131G	Ford	343-4028				
DOHZ1131K	Ford	343-4049				
DOHZ1153A	Ford	330-3040				
DOHZ1153B	Ford	330-3028				
DOHZ1153C	Ford	330-3024				
DOHZ1153D	Ford	330-3009				
DOHZ1153G	Ford	330-3012				
DOHZ1153J	Ford	330-3040				
DOHZ1153K	Ford	330-3028				
DOHZ1173A	Ford	310-1064				
DOHZ1175A	Ford		392-9038			
DOHZ1175B	Ford		392-9035	309-0935		
DOHZ1175C	Ford		392-9057	309-0957		
DOHZ1175D	Ford		392-9099	309-0912, 0915 ²		
DOHZ1175E	Ford		392-9096	309-0965		
DOHZ1175F	Ford		392-9088	309-0964		
DOHZ1190A	Ford		382-8044			
DOHZ1190B	Ford		382-8036	308-0836	383-0136	383-0236
DOHZ1190C	Ford		382-8045			
DOHZ1A131A	Ford	359-5990				
DOTZ1175A	Ford		392-9038			
DOTZ1175B	Ford		392-9035	309-0935		
DOTZ1175C	Ford		392-9018			
DOTZ1175D	Ford		392-9099	309-0912, 0915 ²		
DOTZ1175E	Ford		392-9057	309-0957		
D1HA1131EA	Ford	343-4124				
D1HA1131FA	Ford	343-4186				
D1HA1131KA	Ford	343-4249				
D1HA1190AA	Ford		382-8036	308-0836	383-0136	383-0236
D1HA1190BA	Ford		382-8045			
D1HA1190DA	Ford		382-8028			
D1HS1175BA	Ford		392-9096	309-0965		
D1HS1175CA	Ford		392-9095	309-0961		
D1HS1190AA	Ford		382-8063	308-0863		
D1HZ1190A	Ford		382-8036	308-0836	383-0136	383-0236
D1HZ1190B	Ford		382-8045			
D2HA4813AA	Ford	460-6007				
D3HS1175BA	Ford	320-2102				
D3TA1190B1A	Ford		382-8063	308-0863		
D5H-3104A	Ford	448-4837				
D5HA1175AA	Ford	320-2106				
D5HZ1175A	Ford		392-9131	309-0973	393-0173	393-0273

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
D5HZ1190A	Ford		382-8063	308-0863		
D5HZ1190B	Ford		382-8036	308-0836	383-0136	383-0236
D5HZ1190C	Ford		382-8064	308-0864	383-0164	383-0264
D5HZ1190D	Ford		382-8064	308-0864	383-0164	383-0264
D5HZ1190E	Ford		382-8063	308-0863		
D7HD1173AA	Ford	310-1089				
D7HD1175AA	Ford	320-2099				
D7HT1173BA	Ford	315-1502				
D7HT1175BA	Ford	320-2001				
D7HZ1175D	Ford		392-9131	309-0973	393-0173	393-0273
D7HZ1175E	Ford		392-9001			
D7HZ4255A	Ford	449-4974				
D7HZ4245A	Ford	449-4974				
D8HT1173AA	Ford	315-1501				
DG516P	Dual Dynamics	340-4013				
DG516PS	Dual Dynamics	343-4013				
DG6F	Dual Dynamics	340-4046				
DG6F4.5	Dual Dynamics	340-4024				
DG6FL	Dual Dynamics	340-4249				
DG6P	Dual Dynamics	340-4009				
DG6PS	Dual Dynamics	343-4009				
DGP	Dual Dynamics	340-4075				
DGPS	Dual Dynamics	343-4075				
E-540	Euclid	447-4743				
E-572	Euclid	447-4743				
E-576	Euclid	448-4836				
E-1087	Euclid	448-4836				
E-2296	Euclid	448-4836				
E-2299	Euclid	448-4836				
E-2303	Euclid	449-4973				
E-2305	Euclid	449-4973				
E-2420	Euclid	447-4743				
E-2422	Euclid	447-4743				
E-2460	Euclid	447-4743				
E-2466	Euclid	449-4973				
E-2468	Euclid	449-4973				
E-2550	Euclid	447-4723				
E-4861	Euclid	448-4837				
E-6140	Euclid	449-4973				
EOHZ1A131B	Ford	359-5915				
E1HT1175BA	Ford		392-9131	309-0973	393-0173	393-0273
E1HZ1175A	Ford		392-9131	309-0973	393-0173	393-0273
E1HZ1175B	Ford		392-9131	309-0973	393-0173	393-0273
E2HT1190AA	Ford		382-8036	308-0836	383-0136	383-0236
E2HT1190BA	Ford		382-8064	308-0864	383-0164	383-0264
E2HZ1175A	Ford		392-9131	309-0973	393-0173	393-0273
E2HZ1177A	Ford		392-9131	309-0973	393-0173	393-0273
E2HZ4478A	Ford	460-6004				
E3HS1131AA	Ford	343-4009				
E3HZ1190A	Ford		382-8027			
E3HZ1190B	Ford		382-8036	308-0836	383-0136	383-0236
E3HZ1190C	Ford		382-8064	308-0864	383-0164	383-0264
E3HZ4676A	Ford	460-6002				
E4HS-4255-AA	Ford	449-4973				
E4HT1175AA	Ford		392-9131	309-0973	393-0173	393-0273
E4HZ1131A	Ford	343-4186				
E4HZ1131B	Ford	343-4186				

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
E4HZ1175B	Ford		392-9131	309-0973	393-0173	393-0273
E5HT1175CA	Ford		392-9099	309-0912, 0915 ²		
E5HT1175GA	Ford		392-9131	309-0973	393-0173	393-0273
E5HT1190AA	Ford		382-8063	308-0863		
E5HZ1131A	Ford	343-4046				
E5HZ1131B	Ford	343-4095				
E5HZ1190A	Ford		382-8063	308-0863		
E5TZ1177B	Ford		392-9035	309-0935		
E6HT1175AA	Ford		392-9099	309-0912, 0915 ²		
E6HZ1175C	Ford		392-9099	309-0912, 0915 ²		
E6HZ1175E	Ford		392-9099	309-0912, 0915 ²		
E6HZ1190A	Ford		382-8063	308-0863		
E6HZ1190D	Ford		382-8036	308-0836	383-0136	
E7HT1175AA	Ford		392-9035	309-0935		
E7HT1190AA	Ford		382-8036	308-0836	383-0136	383-0236
E7HZ1175A	Ford		392-9035	309-0935		
E7HZ1190A	Ford		382-8036	308-0836	383-0136	383-0236
E8HS1175BA	Ford		392-9131	309-0973	393-0173	393-0273
E8HS1175CA	Ford		392-9131	309-0973	393-0173	393-0273
E8HS1190CA	Ford		382-8036	308-0836	383-0136	383-0236
E8TW1177BA	Ford		392-9035	309-0935		
E8TZ1175A	Ford		382-8017			
E8TZ1177B	Ford		392-9035	309-0935		
FOHT1190AA	Ford		382-8036	308-0836	383-0136	383-0236
FOTZ1177A	Ford		392-9035	309-0935		
FOTZ1177AA	Ford		392-9035	309-0935		
F-940	Eaton	447-4743				
F-941	Eaton	447-4743				
F-1529	Eaton	447-4743				
F-1530	Eaton	447-4743				
F18571	Eaton		382-8064	308-0864	383-0164	383-0264
F18572	Eaton		382-8064	308-0864	383-0164	383-0264
F1HS1175AA	Ford		392-9099	309-0912, 0915 ²		
F1HT1131AA	Ford	343-4065				
F1HZ1175A	Ford		392-9099	309-0912, 0915 ²		
F1HZ1175C	Ford		392-9096	309-0965		
F1HZ1175D	Ford		392-9088	309-0964		
F2HS1131AA	Ford	343-4281				
F2HS1190AA	Ford		382-8064	308-0864	383-0164	383-0264
F2HS3276AA	Ford	448-4837				
F2HT1175AA	Ford		392-9099	309-0912, 0915 ²		
F2HZ1175A	Ford		392-9035	309-0935		
F2HZ1175B	Ford		392-9099	309-0912, 0915 ²		
F2HZ1175C	Ford		392-9131	309-0973	393-0173	393-0273
F2TZ1175A	Ford		382-8017			
F3HS1175AA	Ford		392-9099	309-0912, 0915 ²		
F3HT1131BA	Ford	343-4124				
F3HT1153AA	Ford	330-3024				
F3HT1175AA	Ford		392-9035	309-0935		
F3HT1131C	Ford	343-4024				
F3TW1177CA	Ford		392-9035	309-0935		
F4HS1175BA	Ford		392-9131	309-0973	393-0173	393-0273
F4TZ1177B	Ford		392-9035	309-0935		
F4TZ1177C	Ford		392-9035	309-0935		
H075	National	343-4075				
H1004320	Monon	347-4009				
H1004323	Monon	320-2110				

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¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

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CROSS REFERENCE

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CROSS REFERENCE

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
HI004324	Monon	315-1504				
HI004325	Monon	343-4009				
HI004326	Monon	330-3009				
HI036513	Monon				373-0113	
HS1643	Mechanex/Barrier	343-4249				
HS34386	Mechanex/Barrier		392-9035	309-0935		
HS34972	Mechanex/Barrier		382-8063	308-0863		
HS34999	Mechanex/Barrier		392-9036			
HS35059	Mechanex/Barrier		382-8036	308-0836	383-0136	383-0236
HS36357	Mechanex/Barrier		382-8011			
HS36357	Mechanex/Barrier		382-8071			
HS38748	Mechanex/Barrier		392-9099	309-0912/0915 ²		
HS38779	Mechanex/Barrier		392-9099	309-0912/0915 ²		
HS40133	Mechanex/Barrier		372-7098	307-0713	373-0113	373-0213
HS40133	Mechanex/Barrier		392-9032			
HS42622	Mechanex/Barrier		372-7099	307-0723	373-0123	373-0223
HS42671	Mechanex/Barrier		392-9112	309-0904	393-0104	393-0204
HS43753	Mechanex/Barrier		372-7095	307-0744	373-0144	
HS43763	Mechanex/Barrier		382-8064	308-0864	383-0164	383-0264
HS43861	Mechanex/Barrier		392-9096	309-0965		
HS44919	Mechanex/Barrier		382-8053 X	308-0853	383-0153	
HS44963	Mechanex/Barrier		392-9033 X			
HS45097	Mechanex/Barrier		392-9094	309-0903	393-0103	393-0203
HS45102	Mechanex/Barrier		382-8056 X	308-0856	383-0156	
HS45158	Mechanex/Barrier		392-9088	309-0964		
HS453795	Mechanex/Barrier	330-3009				
HS455031	Mechanex/Barrier	310-1038 X				
HS455037	Mechanex/Barrier	310-1051				
HS456301	Mechanex/Barrier	310-1011 X				
HS46304	Mechanex/Barrier		372-7097	307-0743	373-0143	373-0243
HS47245	Mechanex/Barrier		392-9111			
HS47694	Mechanex/Barrier		392-9131	309-0973	393-0173	393-0173
HD47695	Mechanex/Barrier		392-9131	309-0973	393-0173	393-0173
HS48001	Mechanex/Barrier		392-9132	309-0960		
HU007A	National	340-4370				
HU008A	National	343-4006				
HU008A	National	343-4008				
HU009A	National	343-4009				
HU009A	National	343-4046				
HU009A	National	343-4098				
HU011A	National	343-4011				
HU012A	National	343-4012 X				
HU013A	National	343-4013				
HU014A	National	340-4014 X				
HU019A	National	343-4002				
HU019A	National	343-4019				
HU024A	National	343-4024				
HU028A	National	343-4028				
HU028A	National	343-4186				
HU031A	National	340-4031				
HU034A	National	343-4034				
HU036A	National	343-4025				
HU036A	National	343-4036				
HU036A	National	343-4092				
HU037A	National	343-4037				
HU039A	National	343-4198				
HU042A	National	343-4042				

Numbers with a red X indicate discontinued part numbers. Refer to Engineering Changes for more information.

¹ When using HMS16449A, use 392-9130 set.

² Use 0912 w/ 5.687 bore only; Use 0915 w/ 5.50 bore only.

³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

Information contained in this section is furnished as a guide. Verify specific application elsewhere in this catalog when possible.

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
HU057A	National	343-4057				
HU065A	National	343-4065				
HU066A	National	343-4066				
HU070A	National	340-4070 X ³				
HU110A	National	343-4095				
HU110A	National	343-4249				
HU149A	National	343-4049				
HU149A	National	343-4101 X				
K1501	Ceromet	450-4836				
K1502	Ceromet	450-4837				
K2625	Ceromet	450-4743				
K3250	Ceromet	450-4973				
K3480	Ceromet	450-4723				
KBE-10227	Fruehauf	448-4836				
L-176	Leland	447-4743				
L-178	Leland	447-4743				
L-195	Leland	448-4836				
L-1331	Leland	448-4836				
L-1334	Leland	448-4836				
L-1347	Leland	447-4743				
L-1349	Leland	447-4743				
L-1353	Leland	449-4973				
L-1355	Leland	449-4973				
L-1359	Leland	447-4743				
L-1361	Leland	447-4743				
L-1365	Leland	449-4973				
L-1367	Leland	449-4973				
L-1395	Leland	447-4723				
M10312-001	Spicer-Dana	447-4743				
M10HG108	Spicer-Dana	330-3009				
M10HG109	Spicer-Dana	330-3084				
M10HG111	Spicer-Dana	330-3062				
M10HG113	Spicer-Dana	330-3017				
M10HG115	Spicer-Dana	330-3056				
M10HG119	Spicer-Dana	330-3102				
M10GH124	Spicer-Dana	330-3024				
M10HG127	Spicer-Dana	330-3079				
M10HH101	Spicer-Dana	320-2109				
M10HH102	Spicer-Dana	320-2110				
M10HH1031	Spicer-Dana	320-2046 X				
M10HH107	Spicer-Dana		372-7097	307-0743	373-0143	373-0243
M10HH111	Spicer-Dana	320-2111				
M10HH119	Spicer-Dana	320-2041				
M10HH125	Spicer-Dana	320-2173				
M10HH128	Spicer-Dana	320-2018				
M10HH138	Spicer-Dana	320-2023				
M10HH140	Spicer-Dana	320-2051 X				
M10HH153	Spicer-Dana		372-7097	307-0743	373-0143	373-0243
M10HH154	Spicer-Dana		382-8036	308-0836	383-0136	383-0236
M10HH157	Spicer-Dana		372-7099	307-0723	373-0123	373-0223
M10HK124	Spicer-Dana	340/343-4009				
M10HK127	Spicer-Dana	343-4082				
M10HK128	Spicer-Dana	340-4054				
M10HK143	Spicer-Dana	340-4157				
M10HK162	Spicer-Dana	343-4075				
M10HK170	Spicer-Dana	343-4024				
M10HK174	Spicer-Dana	343-4064				

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³ Obsolete set, components still available.

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(Continued Next Page)

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
M10HK182	Spicer-Dana	340/343-4009				
M10HK184	Spicer-Dana	343-4009				
M10HK185	Spicer-Dana	343-4249				
M10HN101	Spicer-Dana	447-4743				
M10HN102	Spicer-Dana	447-4743				
M10HN128	Spicer-Dana	448-4836				
M10HN158	Spicer-Dana	447-4743				
M10HS101	Spicer-Dana	315-1504				
M10HS102	Spicer-Dana	315-1507				
M10HS103	Spicer-Dana	310-1036				
M10HS104	Spicer-Dana	310-1013				
M10HS106	Spicer-Dana	315-1506				
M10HS109	Spicer-Dana	310-1043				
M10HS112	Spicer-Dana	315-1503				
M10HS118	Spicer-Dana	310-1008				
M10HS125	Spicer-Dana	310-1047 X				
M-682	BWP	447-4743				
M-684	BWP	447-4743				
M-685	BWP	448-4836				
M-1524	BWP	448-4836				
M-1956	BWP	448-4836				
M-1959	BWP	448-4836				
M-1972	BWP	447-4743				
M-1974	BWP	447-4743				
M-1978	BWP	449-4973				
M-1980	BWP	449-4973				
M-1984	BWP	447-4743				
M-1986	BWP	447-4743				
M-1990	BWP	449-4973				
M-1992	BWP	449-4973				
M-1996	BWP	447-4723				
NP026773	TIMKEN	HM212011				
NP034946	TIMKEN	594A				
NP053874	TIMKEN	572				
NP174964	TIMKEN	HM518445				
NP363298	TIMKEN	592A				
NP435398	TIMKEN	3720				
NP503727	TIMKEN	HM218210				
NP593561	TIMKEN	HM518410				
NP840302	TIMKEN	580				
NP874005	TIMKEN	3782				
NP899357	TIMKEN	HM212049				
NP965350	TIMKEN	HM218248				
R20148201	Strick	340/343-4009				
R20148202	Strick	330-3009				
R20148216	Strick	320-2110				
R20148217	Strick	315-1504				
R20148218	Strick	343-4195				
R20148219	Strick	330-3118				
R20148220	Strick	347-4009				
R20148222	Strick		372-7097	307-0743	373-0143	373-0243
R20148223-4	Strick		372-7099	307-0723	373-0123	373-0223
R20148225	Strick	343-4075				
R20148227	Strick	340/343-4009				
R20148501	Strick	640-0001				
SS46842	Victor		372-7098	307-0713	373-0113	373-0213
SS46842-1	Victor		372-7098	307-0713	373-0113	373-0213

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³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
SS46847	Victor		372-7095	307-0744	373-0144	
SS47889	Victor		392-9096	309-0965		
SS48087	Victor		372-7099	307-0723	373-0123	373-0223
SS64227-2	Victor		372-7006			
SS64227-2	Victor		382-8025 X			
SS64229	Victor		382-8025 X			
SS64231	Victor		372-7008 X			
SS64234-1	Victor		382-8001			
SS64236	Victor		372-7097	307-0743	373-0143	373-0243
SS64238-2	Victor		392-9062			
SS64238-3	Victor		392-9062			
SS64240-1	Victor		372-7015			
SS64240-3	Victor		382-8045			
SS64410	Victor		372-7025 X			
SS64412	Victor		382-8025 X ³			
SS64412-1	Victor		382-8071 X		383-0171	
SS64414	Victor		382-8036	308-0836	383-0136	383-0236
SS64415	Victor		382-8053 X	308-0853	383-0153	
SS64415-1	Victor		382-8052			
SS64429	Victor		372-7006			
SS64443	Victor		392-9095	309-0961		
SS64452	Victor		392-9094	309-0903	393-0103	393-0203
SS64456	Victor		372-7006			
SS64456	Victor		382-8025 X ³			
SS64462	Victor		382-8052			
SS64464	Victor		382-8009			
SS64471	Victor		372-7049			
SS64487	Victor		382-8019			
SS64491	Victor		382-8011			
SS64495	Victor		392-9010 X			
SS64495-1	Victor		382-8039 X		383-0139	383-0239
SS64502	Victor		382-8017			
SS64511	Victor		382-8034			
SS64517	Victor		382-8064	308-0864	383-0164	383-0264
SS64530	Victor		382-8036	308-0836	383-0136	383-0236
SS64534	Victor		382-8044			
SS64538	Victor		382-8063	308-0863		
SS64539	Victor		382-8056 X	308-0856	383-0156	
SS64542	Victor		392-9094	309-0903	393-0103	393-0203
SS64546	Victor		392-9087	309-0970		
SS64553	Victor		392-9096	309-0965		
SS64558	Victor		392-9035	309-0935		
SS64558-1	Victor		392-9036			
SS64561	Victor		392-9038			
SS64564	Victor		392-9038			
SS64567	Victor		392-9112	309-0904	393-0104	
SS64569	Victor		392-9089	309-0948	393-0148	
SS64571	Victor		392-9007			
SS64584	Victor		392-9099	309-0915		
SS64589	Victor		392-9057	309-0957		
SS64603	Victor		392-9131	309-0973	393-0173	393-0273
SS68001	Victor		372-7098	307-0713	373-0113	373-0213
SS68002	Victor		372-7099	307-0723	373-0123	373-0223
SS68003	Victor		372-7097	307-0743	373-0143	373-0243
SS68004	Victor		392-9132	309-0960		
SS68005	Victor		372-7024 X	372-7091	373-0191	
SS68006	Victor		392-9131	309-0973	393-0173	393-0273

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(Continued Next Page)

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	STEMCO DISCOVER®
SS68008	Victor		372-7097	307-0743	373-0143	373-0243
T11501317	Dodge		392-9057	309-0957		
T13501317	Dodge		392-9099	309-0912/0915 ²		
TP-157	Transit	448-4836				
TP-431	Transit	448-4836				
TP-489	Transit	447-4743				
TP-490	Transit	447-4743				
TP-1572	Transit	449-4973				
TP-1943	Transit	449-4973				
TP-1970	Transit	448-4836				
TP-1973	Transit	448-4836				
TP-1977	Transit	449-4973				
TP-1978	Transit	449-4973				
TP-1988	Transit	447-4743				
TP-1989	Transit	447-4743				
TP-1997	Transit	447-4743				
TP-1999	Transit	447-4743				
UH0389EO UZ208EO	NOK	429-0005				
UZ0255EO	NOK	460-6012				
UZ0301EO	NOK		372-7098	307-0713	373-0113	373-0213
UZ0302EO	NOK		372-7099	307-0723	373-0123	373-0223
UZ0303EO	NOK		372-7097	307-0743	373-0143	373-0243
UZ0304EO	NOK		392-9131	309-0973	393-0173	393-0273
UZ0305EO	NOK		382-8036	308-0836	383-0136	383-0236
UZ0306EO	NOK		392-9099	309-0912	393-0112	393-0212
UZ0307EO	NOK		392-9088	309-0964		
UZ0308EO	NOK		392-9081	309-0960		
V10895522	GMC/Valvo			308-0870		
V8027329	GMC/Valvo	343-4095				
V8027330	GMC/Valvo		382-8064	308-0864	383-0164	383-0264
W03HH101	Dana		382-8064	308-0864	383-0164	383-0264
W03HH102	Dana		382-8036	308-0836	383-0136	383-0236
W03HK100	Dana	343-4249				
X-115	Eaton	448-4836				
Z1026AC	Eaton	310-1038 X				
Z1026AD	Eaton	310-1041				
Z1026L	Eaton	310-1050				
Z1026R	Eaton	310-1011 X				
Z1026T	Eaton		392-9112	309-0604	393-0104	393-0204
Z1026U	Eaton		392-9088	309-0964		

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³ Obsolete set, components still available.

⁴ Order kit # 383-8139 for Voyager® and 383-8239 for Discover®.

WHEEL BEARING ADJUSTMENT

TMC'S RECOMMENDED WHEEL BEARING ADJUSTMENT PROCEDURE FOR STANDARD SPINDLE NUTS

Proper wheel bearing adjustment is critical to the performance of wheel seals and other related wheel end products. For that reason, we are proud to be a part of TMC's Wheel End Task Force.

We are happy to bring these standards in the form of this technical guide. Working together in this way, STEMCO® helps keep rigs rolling.

The following RP-618A seven-step bearing adjustment recommendation for standard spindle nuts was developed by TMC's Wheel End Task Force. It represents the combined input of manufacturers of wheel end components.

Step 1 Bearing Lubrication

Lubricate the wheel bearing with clean lubricant of the same type used in the axle sump or hub assembly.

Step 2 Initial Adjusting Nut Torque

Tighten the adjusting nut to a torque of 200 ft-lbs. while rotating the wheel.

Step 3 Initial Back-Off

Back the adjusting nut off one full turn.

Step 4 Re-Torque Adjustment

Re-Torque adjusting nut to 50 ft-lbs while rotating the wheel.

Step 5 Final Back Off

AXLE TYPE	THREADS PER INCH	FINAL BACK OFF
Steer (Single Nut)	12	1/6 Turn*
	18	1/4 Turn*
Steer (Double Nut)	14	1/2 Turn
	18	1/2 Turn
Drive	12	1/4 Turn
	16	1/4 Turn
Trailer	12	1/4 Turn
	16	1/4 Turn

*Install cotter pin to lock axle nut in position.

Step 6 Jam Nut Torque

AXLE TYPE	NUT SIZE/TYPE	TORQUE SPECIFICATIONS
Steer (Double Nut)	Less Than 2 5/8"	200-300 ft-lb
	2 5/8" and Over	300-400 ft-lb
Drive	Dowel-Type Washer	300-400 ft-lb
	Tang-Type Washer	200-275 ft-lb
Trailer	2 5/8" and Larger	200-300 ft-lb
	2 5/8" and Over	300-400 ft-lb

Step 7 Acceptable End Play

The dial indicator should be attached to the hub or brake drum with its magnetic base. Adjust the dial indicator so that its plunger is against the end of the spindle with its line of action approximately parallel to the axis of the spindle.

Grasp the wheel or hub assembly at the 3 o'clock and 9 o'clock positions. Push and pull the wheel end assembly in and out while oscillating the wheel approximately 45 degrees. Stop oscillating the hub so that the dial indicator tip is in the same position as it was before oscillation began. Read the bearing end play as the total indicator movement.

Refer to Page 21 of the STEMCO TQM Catalog for measuring end play.

NOTE: Acceptable end play is 0.001"- 0.005".

TRIFECTA™ PRE-ADJUSTED HUB ASSEMBLY INSTALLATION INSTRUCTIONS

Follow the installation procedure and experience the safety, performance and confidence of having the Trifecta™ Pre-Adjusted Hub Assembly. By combining premiere STEMCO® wheel end technologies with the trusted Webb® hub in a single, pre-adjusted assembly, installation is faster and more secure. Plus, there is no need to purchase, install and adjust separate wheel end components and fasteners.

TOOLS NEEDED FOR INSTALLATION

- Torque wrench
- Sockets for all applications
- Towel and/or emery cloth to clean spindle

Step 1

To begin the Trifecta installation, start by cleaning the spindle and removing all burrs.

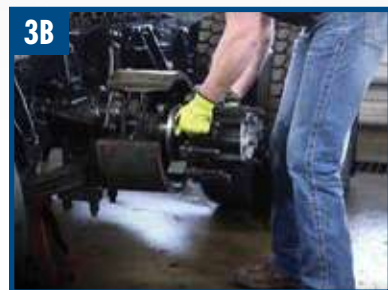
Step 2

Apply a light coat of lubricant to the spindle surfaces.

NOTE: The Discover® XR seal includes STEMCO's patented GlideLock™ technology, eliminating the requirement for seal ID pre-lubrication.

Step 3

Align the Trifecta assembly with the keyway and slide the hub on to the spindle.





TRIFECTA™ PRE-ADJUSTED HUB ASSEMBLY INSTALLATION INSTRUCTIONS

Step 4

Rotate the hub clockwise to engage the Zip-Torq® axle fastener and continue rotating manually until it stops.

Step 5

Unscrew and remove the axle fastener retainer.

Step 6

Use a torque wrench to tighten Zip-Torq to 200 ft./lb. Rotate the hub one full rotation. Repeat this procedure two more times. Torque spec is the same for steer, drive and trailer applications.

FOR APPLICATIONS REQUIRING HUBCAPS

Step 7

To complete installation, install the Defender ESP™ hubcap. Torque the hub cap bolts to 12 to 16-foot pounds using a star pattern sequence. Add oil to the fill line on hub cap window.

Step 8

Reinstall the plug.



PRO-TORQ® INSTALLATION INSTRUCTIONS

Step 1 Remove the Keeper From the Nut

Use a small screwdriver to carefully pry the keeper arm from the undercut groove on each side until the keeper is released.

Step 2 Thread the Nut Onto the Axle

Thread the nut onto the axle until hand tight against the bearing.

Step 3 Seat the Bearing

With wheel hub assembly:

- A. Using a torque wrench:
 - (1) Tighten the nut to 200 ft-lb. Spin the wheel hub assembly at least one full rotation.
 - (2) Tighten the nut to 200 ft-lb. Spin the wheel hub assembly at least one full rotation.
 - (3) Tighten the nut to 200 ft-lb. Spin the wheel hub assembly at least one full rotation.
- B. Back the nut off one full rotation.

Step 4 Adjust the Bearing

With wheel hub assembly:

- A. Using a torque wrench:
 - (1) Tighten the nut to 100 ft-lb. Spin the wheel hub assembly at least one full rotation.
 - (2) Tighten the nut to 100 ft-lb. Spin the wheel hub assembly at least one full rotation.
 - (3) Tighten the nut to 100 ft-lb. Spin the wheel hub assembly at least one full rotation.
- B. Back the nut off one face mark (according to chart).

Step 5 Install the Keeper

Orange side facing out:

- 1. Insert the keeper tab into the undercut groove of the nut and engage the keyway tang in the axle keyway. Insert keeper tab with the orange side facing out.
- 2. Engage the mating teeth.
- 3. Compress and insert the keeper arms, one at a time, into the undercut groove with a screwdriver.

For Steering Spindle Nut:

- 448-4836, 448-4839, 448-4840, 448-4863, 448-4864, and 448-4865
- 1. Align the flat of the keeper with the milled flat on the spindle and insert the single keeper tab into the undercut groove of the nut. Insert keeper tab with the orange side facing out.
- 2. Engage the mating teeth.
- 3. Compress and insert the keeper arms, one at a time, into the undercut groove with a screwdriver.

NOTE: Recommended practice is to replace the keeper each time the Pro-Torq nut assembly is removed for maintenance purposes.

Step 6

If the inner tang does not line up with the keyway, back the nut off slightly until it does. Using a small screwdriver, compress and insert the keeper arms, one at a time, into the undercut groove. The orange painted side of the keeper must be facing out.

Step 7 Inspect the Installation

Failure to follow this instruction could cause the wheel to come off and cause bodily injury. Make sure that the keeper tab and keeper arms are fully seated into the undercut groove.



PRO-TORQ® INSTALLATION INSTRUCTIONS



Step 8

Inspect keyway tang to insure it does not contact the bottom of the keyway. If contact exists, immediately notify a STEMCO representative.

This procedure will consistently produce a bearing setting of 0.001" to 0.003" end play.

Step 9 Acceptable End Play

The dial indicator should be attached to the hub or brake drum with its magnetic base. Adjust the dial indicator so that its plunger is against the end of the spindle with its line of action approximately parallel to the axis of the spindle.

Grasp the wheel or hub assembly at the 3 o'clock and 9 o'clock positions. Push and pull the wheel-end assembly in and out while oscillating the wheel approximately 45 degrees. Stop oscillating the hub so that the dial indicator tip is in the same position as it was before oscillation began. Read the bearing end-play as the total indicator movement.

***Acceptable end-play is .001" – .005"**

For single nut self-locking systems, consult manufacturers' specifications. STEMCO assumes no responsibility for other manufacturers' bearing warranty.

WARNING

Failure to follow this instruction could cause the wheel to come off and cause bodily injury. STEMCO axle fasteners are sold as an assembly with the keeper in place. **DO NOT** attempt to place the nut on the spindle or tighten or loosen the nut on the spindle while the keeper is installed inside the nut. Doing so may deform the keeper and allow the nut to unthread during operation. Spindle thread damage could also occur, leaving the axle unusable.

DO NOT bend or manipulate keyway tang in any way. Doing so may cause the tang to break off in service. Failure to back off the axle fasteners on non pre-adjusted systems will cause the bearings to run hot and be damaged.

Final Back Off

PART NUMBER	BACKOFF
TRAILER AXLE NUT	
447-4723	
447-4724	1/8 turn
449-4973	
TRAILER AXLE NUT	
447-4743	1/4 turn
STEERING SPINDLE NUT	
448-4836	
448-4838	
448-4839	
448-4863	1/4 turn
448-4864	
448-4865	
STEERING SPINDLE NUT	
448-4837	
448-4840	1/3 turn
DRIVE AXLE NUT	
449-4904	
449-4973	
449-4974	1/8 turn
449-4975	

PRO-TORQ®

ZIP-TORQ® INSTALLATION INSTRUCTIONS

Tools Required for Installation

ZIP-TORQ® PART NO.	TOOL SOCKET (3/4" DRIVE REQUIRED)	OTC PART NO.
TRAILER AXLE FASTENER		
400-4723	4-1/8" Six Point	1915
400-4743	3-1/4" Six Point	1908
400-4973	4" Six Point	1914
STEERING AXLE FASTENER		
400-4836	2-1/8" Six Point	1976
400-4837	2-1/8" Six Point	1976
400-4864	2-7/8" Six Point	
400-4865	2-7/8" Six Point	
DRIVE AXLE FASTENER		
400-4904	3-1/2" Six Point	
400-4973	4" Six Point	1914

NOTE: Ford application 12,000 lbs. SIFCO Steer Axle requires OEM inner washer to be installed prior to installation of Zip-Torq® nut system.

Do not use power or air tools during installation of Zip-Torq.

Step 1 Thread the Nut Onto the Axle

Thread the nut onto the axle until hand tight.

Step 2 Seat the Bearing

With wheel hub assembly:

A. Using a torque wrench:

- (1) Tighten the nut to 200 ft-lb. Spin the wheel hub assembly at least one full rotation.
- (2) Tighten the nut to 200 ft-lb. Spin the wheel hub assembly at least one full rotation.
- (3) Tighten the nut to 200 ft-lb. Spin the wheel hub assembly at least one full rotation.

B. Back the nut off one full rotation.

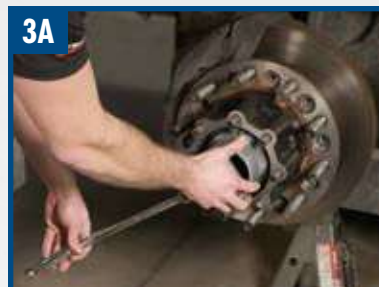
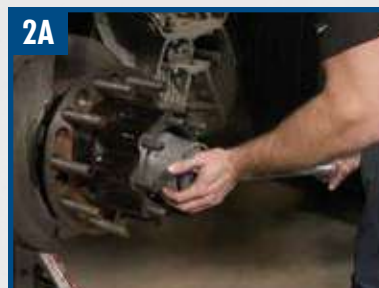
Step 3 Adjust the Bearing

With wheel hub assembly:

A. Using a torque wrench:

- (1) Tighten the nut to 100 ft-lb. Spin the wheel hub assembly at least one full rotation.
- (2) Tighten the nut to 100 ft-lb. Spin the wheel hub assembly at least one full rotation.
- (3) Tighten the nut to 100 ft-lb. Spin the wheel hub assembly at least one full rotation.

B. Back the nut off one face mark (according to chart).



ZIP-TORQ® INSTALLATION INSTRUCTIONS



Final Back Off

PART NUMBER	BACKOFF
TRAILER AXLE NUT	
400-4723	1/8 turn
400-4973	
TRAILER AXLE NUT	
400-4743	1/4 turn
STEERING SPINDLE NUT	
400-4836	1/4 turn
400-4864	
400-4865	
STEERING SPINDLE NUT	
400-4837	1/3 turn
DRIVE AXLE NUT	
400-4904	1/8 turn
400-4973	

Step 4 Inspect the Installation

Failure to follow this instruction could cause the wheel to come off and cause bodily injury.

Step 5 Acceptable End Play

The dial indicator should be attached to the hub or brake drum with its magnetic base. Adjust the dial indicator so that its plunger is against the end of the spindle with its line of action approximately parallel to the axis of the spindle.

Grasp the wheel or hub assembly at the 3 o'clock and 9 o'clock positions. Push and pull the wheel-end assembly in and out while oscillating the wheel approximately 45 degrees. Stop oscillating the hub so that the dial indicator tip is in the same position as it was before oscillation began. Read the bearing end-play as the total indicator movement.

***Acceptable end-play is .001" – .005"**

For single nut self-locking systems, consult manufacturers' specifications. STEMCO assumes no responsibility for other manufacturers' bearing warranty.

WARNING

Failure to follow this instruction could cause the wheel to come off and cause bodily injury. STEMCO axle fasteners are sold as an assembly with the keeper in place. **DO NOT** attempt to place the nut on the spindle or tighten or loosen the nut on the spindle while the keeper is installed inside the nut. Doing so may deform the keeper and allow the nut to unthread during operation. Spindle thread damage could also occur, leaving the axle unusable.

DO NOT bend or manipulate keyway tang in any way. Doing so may cause the tang to break off in service. Failure to back off the axle fasteners on non pre-adjusted systems will cause the bearings to run hot and be damaged.



GUARDIAN® / GUARDIAN® HP INSTALLATION INSTRUCTIONS

Step 1

Remove all burrs from the hub bore and spindle. Thoroughly clean the entire wheel cavity. Apply a thin layer of No. 2 sealant to the O.D. of the spindle shoulder. Place the seal assembly on the spindle so the words "OIL BEARING SIDE" are exposed to the oil. (See **FIGURE A**) Clean and inspect the spindle, threads, and seal shoulder. These areas are to be free of debris, rust, weld splatter, and loose particles or build up of any type.

WARNING: DO NOT INSTALL THE SEAL INTO THE HUB BORE.

Step 2

Using the recommended STEMCO Universal Axle Tool, drive the seal assembly on until the tool bottoms against the shoulder. (See **FIGURE B**) Make sure the ring is flush with the axle shoulder. Ensure seal fully contacts the wear ring flange. Wipe away any excess sealant.

Step 3

Dip the inner bearing in oil and place on the spindle.

NOTE: The O.D. of the seal must be coated with a thin coat of the same lubricant used in the hub.

NOTE: When using grease, pre-pack the inner bearing before placement on the spindle.

Step 4

With the hub mounted on a wheel dolly, carefully push the hub onto the spindle until it contacts the seal. (See **FIGURE C**) Dip the outer bearing in oil and place it on the spindle. Hand tighten the axle nut to hold the outer bearing in place before removing the wheel dolly.

NOTE: When using grease, follow TMC RP631B guideline for proper hub fill. Pre-pack the outer bearing before placement into the hub. Clean the back side of the wheel end if excess lubricant is present.

Step 5

Tighten to 200 ft-lbs and rotate the wheel several times. Then back off nut one full turn. (See **FIGURE D**) Install the axle fastener per the manufacturer's recommendations and TMC requirements for proper installation and endplay.

Step 6

STEER AND TRAILER AXLES: Install the hub cap with a new gasket and fill the cavity with lubricant to the proper level.

DRIVE AXLES: Install drive axle using a new gasket. Be sure the differential oil is high enough (see manufacturer's recommendation) to ensure oil flow through the axle to the hub. It is recommended to jack one side up and then the other to start lubricant flow.

ALL APPLICATIONS: Make sure the breather plug is clear. Recheck fill level (steer and trailer applications).



Guardian®
HP

STANDARD / GRIT GUARD® SEAL INSTALLATION INSTRUCTIONS



Step 1

Remove all burrs from the hub bore and spindle. Clean and inspect the spindle, threads, and seal shoulder. These areas are to be free of debris, rust, weld splatter, and loose particles or build up of any type. Thoroughly clean the entire wheel cavity. Apply a thin layer of No. 2 sealant to the O.D. of the spindle shoulder. Place the axle ring on the spindle.



Step 2

Using the recommended STEMCO Axle Tool, drive the axle ring on until the tool bottoms against the spindle shoulder. Make certain the axle ring is flush with the shoulder. Wipe away any excess sealant. (See **FIGURE A**)

Step 3

Orient the hub such that the inner bearing cup is up, pre-lube the inner bearing and place it into the bearing cup. (See **FIGURE B**)

NOTE: When using grease, pre-pack the inner bearing before placement into the hub.



Step 4

Apply a thin layer of No. 2 sealant to the OD of the seal and position the seal in the hub. Using the recommended STEMCO Universal Hub Tool, held in a vertical position, drive the seal into the seal bore until it is bottomed out. Check the clearance between the bearing cone and seal (at least 1/32nd is required). (See **FIGURE C**)

Step 5

With the wheel mounted on a dolly, carefully align the bore with the spindle. Gently push the wheel assembly on to the spindle to the proper position. Pre-lube the outer bearing and push it into the bearing cup. Hand tighten the axle nut to hold the outer bearing in place before removing the wheel dolly. (See **FIGURE D**)

NOTE: When using grease, pre-pack the outer bearing before placement into the hub. Follow TMC RP631B guideline for proper hub fill.



Step 6

Install the axle fastener per the manufacturer's recommendations and TMC requirements for proper installation and endplay. (See **FIGURE E**)

Step 7

STEER AND TRAILER AXLES: Install the hub cap with a new gasket and fill the cavity with lubricant to the proper level.

DRIVE AXLES: Install drive axle using a new gasket. Be sure the differential oil is high enough (see manufacturer's recommendation) to ensure oil flow through the axle to the hub. It is recommended to jack one side up and then the other to start lubricant flow.

ALL APPLICATIONS: Make sure the breather plug is clear. Recheck fill level (steer and trailer applications).



GRITGUARD®

VOYAGER® / DISCOVER® INSTALLATION INSTRUCTIONS

Step 1

Remove all burrs from the hub bore and spindle. Clean and inspect the spindle, threads, and seal shoulder. These areas are to be free of debris, rust, weld splatter, and loose particles or build up of any type. Thoroughly clean the entire wheel cavity.

NOTE: DO NOT apply any sealant to the spindle shoulder. Apply a light coat of lubricant to spindle surfaces.

Step 2

Orient the hub such that the inner bearing cup is up, pre-lube the inner bearing and place it into the bearing cup. (See **FIGURE A**)

NOTE: When using grease, pre-pack the inner bearing before placement into the hub.

Step 3

Place the seal on the recommended STEMCO Installation Tool, with the correct head, so that the words "Air Side" face into the tool. Place the tool (with the seal correctly mounted in the tool head) over the hub bore. Use a 3 to 5 pound hammer to drive the seal into the bore until complete bottoming is assured. Remove Tool. (See **FIGURE B**) Apply a thin layer of lubricant on the ID surface of the seal.

NOTE: DO NOT apply lubricant to the OD of the seal. DO NOT apply sealant to the seal OD or ID.

Step 4

With the wheel mounted on a wheel dolly, carefully align the seal with the spindle. Gently move the hub/wheel assembly back on the spindle until the seal is completely installed on the spindle shoulder. (See **FIGURE C**) Pre-lube the outer bearing and push it into the bearing cup. Hand tighten the axle nut to hold the outer bearing in place before removing the wheel dolly.

NOTE: When using grease, follow TMC RP631B guideline for proper hub fill. Pre-pack the outer bearing before placement into the hub.

Step 5

Tighten to 200 ft-lbs and rotate the wheel several times. Then back off nut one full turn. Install the axle fastener per the manufacturer's recommendations and TMC requirements for proper installation and endplay. (See **FIGURE D**)

Step 6

STEER AND TRAILER AXLES: Install the hub cap with a new gasket and fill the cavity with lubricant to the proper level.

DRIVE AXLES: Install drive axle using a new gasket. Be sure the differential oil is high enough (see manufacturer's recommendation) to ensure oil flow through the axle to the hub. It is recommended to jack one side up and then the other to start lubricant flow.

ALL APPLICATIONS: Make sure the breather plug is clear. Recheck fill level (steer and trailer applications).



Voyager®

Discover®



UNITIZED PINION SEAL INSTALLATION INSTRUCTIONS

Step 1

Remove yoke. (See **FIGURE A**)

Step 2

Remove old seal and wear ring (if applicable). (See **FIGURE B**)

Step 3

Remove all burrs and thoroughly clean cage bore. (See **FIGURE C**)

NOTE: If installing the seal into a worn cage bore, apply a thin layer of No. 2 sealant to the OD of the seal before installation.

Step 4

Align installation tool with the seal and spline. Hand tighten bolt/nut. (See **FIGURE D**)

Step 5

Using a hand tool, tighten until the seal flange bottoms on the cage — or installation tool bottoms on cage (non-flange seals). Take care not to over tighten bolt/nut. (See **FIGURE E**)

Step 6

Remove burrs (See **FIGURE F**) and thoroughly clean yoke. Lube the seal ID. Install yoke. (See **FIGURE G**)

Step 7

Refer to axle manufacturer for yoke assembly torque requirements.

Unitized Pinion Seals

BEARING REMOVAL AND INSTALLATION

REMOVAL

Step 1

Remove hub/wheel assembly from vehicle in accordance with recommended practices. (See **FIGURE A**)

Step 2

Remove inboard and outboard bearing cones and set aside for inspection.

Step 3

Using a mild steel drift or cup driver, carefully drive out the bearing cups. (See **FIGURE B**)

NOTE: Caution should be used when driving bearing cups, as drifts and other tools can damage bearings.

NOTE: Drifts can damage hub bearing bores. Be careful not to score bores while removing cups, especially when using aluminum hubs.

INSPECTION

Step 1

Inspect the hub bearing bores and shoulders for damage. The bores should be smooth and free from scoring, burrs, indications of cup spinning, or other forms of damage. Remove any burrs or raised areas using emery cloth, a file, or other appropriate tool. (See **FIGURE C**)

Step 2

Measure the bearing cup bore and compare to manufacturer specifications.

Step 3

Inspect bearing cups and cones for damage. Bearings should be free from chips, contamination, and signs of excessive wear or excessive heat. Refer to bearing damage analysis literature for identifying possible bearing issues.

Step 4

Inspect axle spindle bearing journals for any signs of damage or excessive wear. Remove any raised areas or burrs using emery cloth, a file, or other appropriate tool. (See **FIGURE D**)

Step 5

Journals should be measured and compared with manufacturer specifications.

INSTALLATION

Step 1

Thoroughly clean bearing cups and cones prior to installation. (See **FIGURE E**)

CAUTION: Do not use compressed air to spin bearing rollers as injury may result if cage does not retain the rollers.

Step 2

Lightly coat the outside of bearing cups with oil. (See **FIGURE F**)

Step 3

Using a cup driver, carefully drive bearing cups into hub bearing bores. Be sure to drive cup firmly against cup shoulder in hub. (See **FIGURES G and H**)

If a cup driver is not available, a mild steel drift can be used to install bearing cups.

CAUTION: When driving bearing cups, drifts and other tools can damage bearings.

WARNING: NEVER use a bearing cone to drive a bearing cup. This can damage the bearings and cause premature failure.

Step 4

Use a feeler gauge to check for gaps between cup and shoulder.

Step 5

Inspect the bearing cups to ensure no damage occurred during installation.

Step 6

Lubricate bearing cones according to recommended practices and proceed with installation of wheel assembly.



DATATRAC[®] PRO INSTALLATION INSTRUCTIONS



Install DataTrac Pro on wheel end.



Display turns on when the vehicle is at rest.



Display turns off when vibration is detected (vehicle moving) to conserve energy.



LIFE mode shows mileage without tenths.



TRIP mode shows mileage with tenths and TRIP icon.



REV Mode shows RPM or RPK unit Programmed for.

HOW IT WORKS

DataTrac Pro is an advanced mileage counter that relies on Earth's gravity for counting wheel revolutions. The DataTrac Pro unit monitors its orientation to Earth's gravitational pull and uses this reference to recognize and count revolutions.

PROGRAMMING THE UNIT

DISTRIBUTION OR END USER WITH A PROGRAMMER

The unit is shipped from the factory with a Revs/Mile value of zero. Dashes (---) on the display indicate that the unit has **NOT** been programmed. It **MUST** be programmed before it is installed on a wheel end (The DataTrac Pro distributor should have a programmer or can sell a programmer).

THE PROGRAMMER CAN SET THE DATATRAC PROS:

Step 1 The Revolutions/Mile (or per Km)

Use Stemco's catalog to determine the Revolutions/Mile for each Tire Make/Model.

Step 2 Distance Unit of Measure

Miles or Km (Life miles only or including Trip Miles)

Step 3 Mileage Preset

Set the mileage to match the current mileage of the vehicle the unit will be mounted to.

When programming is complete, (as indicated on the programmer screen) immediately lift the DataTrac PRO up and confirm the display shows the correct Tire Revolutions (shown as "REV###" on the screen). If not, repeat the programming.

The DataTrac Pro can be programmed/reprogrammed as many times as desired until there is approximately 2 miles on the unit.

INSTALLING THE UNIT

Install the DataTrac PRO unit using the appropriate STEMCO bracket and hardware. The nut furnished with the unit is a locking nut and must **NOT** be torqued over 15-ft lbs.

READING THE DISPLAY

The display will turn on when the vehicle is at rest. Numbers will automatically orient to read upright. This is also indicated by the icon display, e.g. mile, km, acre. The mileage reading is always in the same direction as the icon.

In order to conserve power the display turns off at any time a vibration is detected. This means that the display will be off while the vehicle is moving. As soon as all vibration or motion stops the display will reactivate in about 5 seconds.

DISPLAY MODES

The DataTrac Pro unit comes equipped with three display modes: **LIFE** and **TRIP** (if programmed), and **REV**. To toggle the display between **LIFE**, **TRIP** and **REV** Modes, cover the round bubble on the face of the unit for at least 1 second, and then uncover it. If the unit is in bright sunlight, the bubble may have to be covered to block more light from reaching the sensor. **TRIP** mode is displayed with tenths resolution and is indicated by display of the **TRIP** icon (only if unit is programmed for **TRIP**).

To reset the **TRIP** display, toggle between **LIFE**, **TRIP** and **REV** Modes 5 times, quickly. Note that the unit cannot toggle faster than every 1.5 seconds. To view the revolutions of the unit simply repeat the process that is used to view trip and then a screen that shows (REV XXX) will show up. The XXX is the number of revolutions per KM or MILE that the unit is programmed for. On units without **TRIP** there are only two screens, all others have three screens (**LIFE**, **TRIP**, and **REV**). As with the **TRIP** mode the unit will return to the mileage after 10 seconds if left in the revolutions screen.

CERTIFICATIONS

This unit complies with European EMI (CE) regulations as noted on front cover by the E11 marking.

PRODUCT LIMITATIONS

This unit should not be used as a rotating shaft counter for machinery, unless the machine shaft rotates slower than 1250 RPM and has a slow acceleration profile similar to a wheel end. At all times the unit should rotate about an axis perpendicular to gravitational forces.

This unit contains a Lithium-Thionyl Chloride battery and should be disposed of according to local regulations. The battery contains less than 1 gram of lithium and is therefore classified as a non-hazardous product. Lithium-Thionyl Chloride batteries contain no poisonous materials and do not present environmental hazards when properly disposed of.



WHEN IT COMES TO TRAINING WE HOLD OURSELVES TO A HIGHER STANDARD

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- Brake balance
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- Single nut and double nut
- Adjustment procedures
- Proper fill rates
- Troubleshooting and inspection

STEMCO
WHEEL END™



STEMCO IS COMMITTED to “Making the Roadways Safer” and increased customer value. We recognize the importance of providing customers with detailed product information, installation procedures and failure analysis. This TQMSM Manual was designed for this purpose, to assist in achieving a higher standard of performance within your operation.

WHAT CAN TQM PROVIDE FOR YOUR COMPANY?

A wheel end is not a collection of parts functioning independently; it is a system of interacting components. Specifically, the hub seal, axle fastener, hub cap, bearings, and lubricant play an important role in the overall performance of the wheel end. Each component is interrelated and its performance affects the total system. Using STEMCO parts with fluid lubrication, your wheel end components will not only provide optimum individual performance, they will, together, form a world-class wheel end system.

QUALITY COMPONENTS WORKING AS AN INTEGRAL UNIT SUPPORTED BY TRAINED PROFESSIONALS.

As a result of more than five decades of experience in the trucking industry, STEMCO has accumulated product and process knowledge of wheel end systems that will benefit all maintenance professionals. TQM demonstrates how STEMCO products, designed to perform with standard hub and axle configurations combined with sound assembly procedures, can result in exceptional wheel end performance.

As trucking technology has advanced, STEMCO has responded to the needs of the industry. At STEMCO, state-of-the-art equipment duplicates exact road conditions to test seal products and to insure their durability and performance. This TQMSM Manual is designed to maximize your investment in today’s technologically advanced components, thereby helping the transportation industry achieve the goal of Total Quality Maintenance.

To request training on any or all of these products, contact your local STEMCO District Sales Manager.

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