WHEEL END

STEMCO®
WHEEL END CATALOG

STEMCO®

Making the Roadways Safer®

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STEMCO®

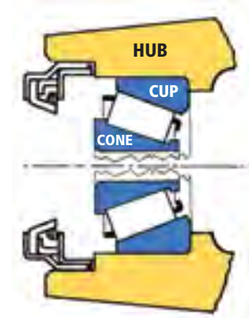
Making the Roadways Safer®

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**	**400-4900** 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
Auto-Torq		**012-002-005**	**480-4723 & 4743**
		012-001-005	**480-4973**
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

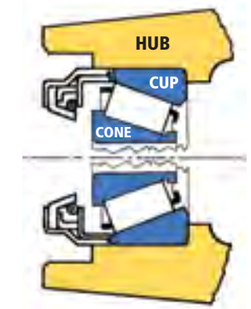
* American Trucking Association/Vehicle Maintenance Reporting Standards

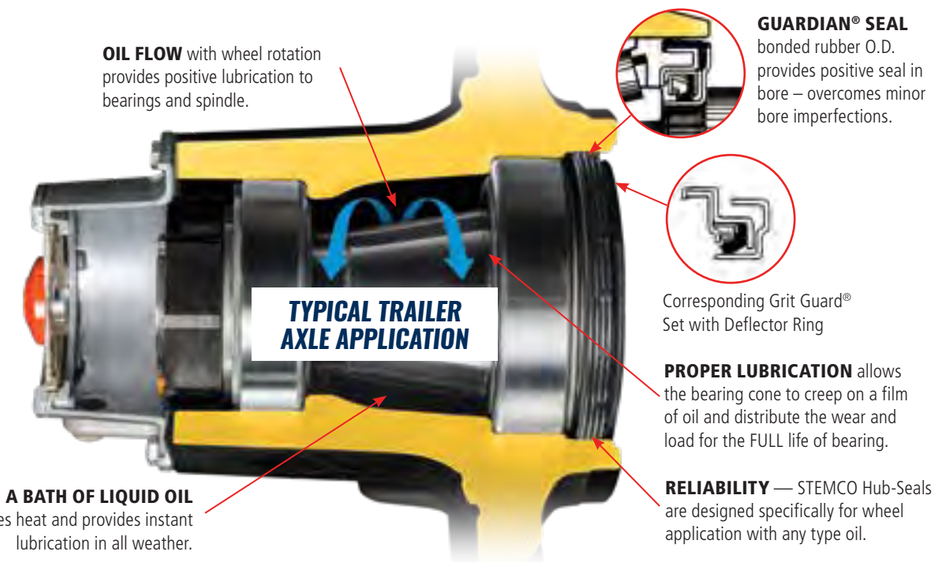
AXLE APPLICATION GRAPHICS

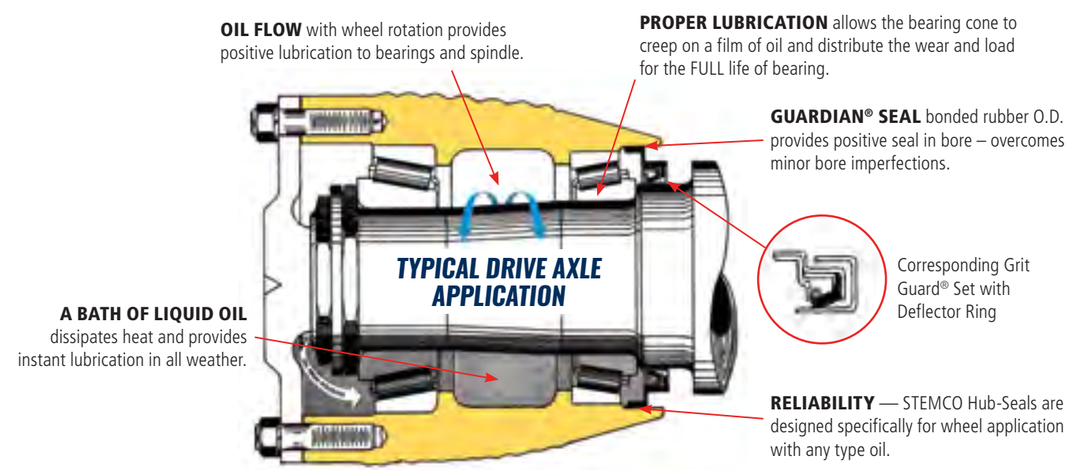


NOTICE

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.







APPLICATION CHART

APPLICATION	GUARDIAN® GUARDIAN®HP	GRIT GUARD® STANDARD	VOYAGER®	DISCOVER® XR
19,000# Trailer Axle Standard Forge, Dana, Meritor, Eaton	307-0713 [5]	372-7098	373-0113	
Pro-Par Trailer Axle, Fruehauf, Eaton P-22, Meritor TP, Dana	307-0723 [5]	372-7099	373-0123	373-0423
22,500# Trailer Axle, Meritor, Standard Forge, Dana, Eaton	307-0743 [5]	372-7097	373-0143	373-0443
20,000# Trailer Axle, Meritor, Shuler	307-0744	372-7095	373-0144	
12,000#, 14,600# Meritor Front Transit			383-0101	
GMC F-120 to 1985				
12,000# Front Axle, Meritor, Eaton, Ford, Freightliner, Kenworth, Western Star, Navistar, Peterbilt, Volvo GM	308-0836 [5]	382-8036	383-0136	383-0436
12,000# Mack Front Axle			383-0139	
Navistar Front Axle, FA 309, FA 329	308-0853			
9,000# Front Axle, Navistar, FA 109 Cast Wheel '79 and up	308-0855		383-0156	
12,000# Front Axle, Navistar			383-0156	
7,000#, 9,000# Front Axle, Ford	308-0863			
16,000# Front Axle, Ford, Navistar, Mack, Meritor, White, Kenworth, Western Star, Peterbilt, Volvo GM	308-0864 [5]	382-8064	383-0164	383-0464
6,000#, 7,500# Front Axle, Navistar	308-0866	382-8066	383-0166	
Volvo FA 7.5 Front Axle	308-0870			
GMC F-120 1985 and up			383-0171	
8,000# GMC Front-Top Kick				
11,000# GMC Front-Top Kick				
34,000# Drive Axle, Mack	309-0903 [5]	392-9094	393-0103	
44,000# Drive Axle, Mack	309-0904 [5]	392-9112 392-9130	393-0104 393-0104	
34,000# Drive Axle, Eaton, Ford, Navistar, White	309-0912 [1]	392-9099	393-0112	
17,000# Single and 34,000# Tandem, GMC		Refer to above 392-9099 set		
Meritor Drive-Transit			393-0134	
15,000# Drive Axle, Ford, Meritor F-Series	309-0935			
Mack Drive Axle 50,000# and 60,000#	309-0948	392-9089	393-0148	
38,000# Drive Axle, Mack, GMC, Eaton, Meritor		392-9132 [2]		
Van Hool Bus	391-9066	392-9066		
38,000#, 40,000# and 42,000# Tandem Drive Axles, Ford, Eaton, GMC, Mack, Navistar, White		392-9092 [3] 392-9096		
38,000# Drive Axle, Eaton, Meritor, White		392-9087		
38,000#, 46,000# Tandem Axles, Eaton, Ford, Freightliner, Kenworth, Western Star, Peterbilt, Meritor, Navistar, Volvo GM	309-0973 [5]	392-9131 [4]	393-0173	393-0423

[1] Use with 5.687" Bore Only.
[2] Does not fit Mack Applications.
[3] Fits Mack Application Only.
[4] Use with Wabco ABS.
[5] HP Design

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 [9]	570-0024
2086/1013	6386 or 6389, 6379	555-5060 or 555-5014	551-5420 [8]	570-0020 [10]
2034/1034	HM212047	555-5066	551-5387	570-0019
2036/1036	39581 HM212044 HM212049, -X, X1 HM212047	555-5062 555-5061 555-5098 555-5066	551-5346 551-5346 551-5346 551-5346	570-0017 570-0018 570-0020 570-0019
2039/1038	641 or HM212049	NONE REQ'D	551-5413 [1]	570-0020
2181/1093	641 or HM212049 H715345	555-5060 555-5070	551-5419 551-5419 [4]	570-0020 570-0021
2199/1093	641	555-5060	551-5344	570-0020
2199/1093	H715345	555-5070	551-5344	570-0021
2133/1036 45284	39581 555-5064	555-5062 551-5353	551-5353	570-0017
2137/1037	6461A	555-5007	551-5327	570-0022
2164/1008	JM207049 JM205149	555-5088 555-5089	551-5423 551-5423 [7]	570-0036 570-0033
	JF7049A	555-5297		
2216/1034	HM212047	555-5066	551-5403	570-0019
	JM205149		551-5417	570-0033
	33212		551-5418	570-0031
2129/1511	580 or 582	555-5072	551-5415 [2]	570-0023
2213/1515 2213/1519	663 or HM516449,-C HM516449A	555-5072 555-5073	551-5414 [3] 551-5414 [3]	570-0023 570-0023
2102/1501	47685 or 47686 47678 or 5760	555-5031 555-5074	551-5416 [5] 551-5416 [5]	570-0023 570-0022
	47686	555-5031	551-5424	570-0023
2061/1066	6580 or 6559	555-5023 or 555-5072	551-5421 [6]	570-0025 or 570-0023
2057/1062	33287	555-5011	551-5353	
2097/1516	687 or 780	555-5004	551-5400	570-0032
2115/1530	598A 594A	555-5071 555-5076	551-5356 551-5356	570-0027 570-0028
2115/1107	594A	555-5076	551-5356	570-0028
2131/1508	598	555-5071	551-5363	570-0027
2114/1508	595 598	555-5072 555-5071	551-5412 551-5412	570-0023 570-0027
2162/1502	683XA or 683 681A	555-5076 555-5071	551-5333 551-5333	570-0028 570-0027
2106/1525	594 or 594A 598 or 598A	555-5076 555-5071	551-5320 551-5320	570-0028 570-0027

[1] Use 551-5395 for 320-2039 seal.
[2] Use 551-5393 for 320-2129 seal.
[3] Use 551-5364 for 320-2213 seal.
[4] Use 551-5349 for 320-2181 seal.
[5] Use 551-5318 for 320-2102 seal.
[6] Use 551-5356 for 320-2061 seal.
[7] Use 551-5366 for 320-2164 seal.
[8] Use 551-5311 for 320-2086 seal.
[9] Use 551-5321 for 320-2118 seal.
[10] Does not fit 6379.

PLATINUM
PERFORMANCE SYSTEM™

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.

PLATINUM PERFORMANCE SYSTEM WARRANTY PACKAGE OVERVIEWS

OEM PACKAGES	TRUCK	TRAILER
PART	PLATINUM PERFORMANCE SYSTEM PLUS	PLATINUM PERFORMANCE SYSTEM PLUS
STEMCO Discover XR or GHP Seal	✓	✓
STEMCO Bearings	✓	✓
STEMCO Auto-Torq, Pro-Torq, or Zip-Torq	✓	✓
STEMCO Sentinel Hub Cap	✓	✓
Warranty Coverage	5-year parts & labor	7-year parts & labor
Mileage Coverage	500,000 MILES or 800,000 KM	UNLIMITED MILEAGE

AFTERMARKET PACKAGES	PLATINUM PERFORMANCE SYSTEM		PLATINUM PERFORMANCE SYSTEM PLUS	
PART	TRUCK	TRAILER	TRUCK	TRAILER
STEMCO Discover XR or GHP	✓	✓	✓	✓
STEMCO Bearings			✓	✓
STEMCO Auto-Torq, Pro-Torq, or Zip-Torq	✓	✓	✓	✓
Any STEMCO Hub Cap with Sentinel Technology	✓	✓	✓	✓
Warranty Coverage	3-year parts only		5-year parts & labor*	
Mileage Coverage	350K miles / 560K KM	Unlimited miles / KM	500K miles / 800K KM	Unlimited miles / KM

INTERNAL HUB SEAL CROSS REFERENCE

GUARDIAN® / GUARDIAN®HP SEAL NO.	INNER BEARING CONE	UNIVERSAL TOOL HEAD	STANDARD/ GRIT GUARD® SET	VOYAGER® DISCOVER® XR
307-0713 [1]	663	555-5100	372-7098	373-0113
307-0723 [1]	HM518445	555-5023	372-7099	373-0123 373-0423
307-0743 [1]	HM218248	555-5039	372-7097	373-0143 373-0443
307-0744	665A	555-5069		373-0144
308-0836 [1]	39581	555-5062	382-8036	383-0136 383-0436
	HM212044, 557A	555-5061		
	HM212049, -X	555-5098		
	HM212047	555-5066		
308-0853	641 HM212049	555-5060		
	H715345	555-5070		
308-0855	641	555-5060		
	H715345	555-5070		383-0156
308-0863	39581	555-5062		
	45284	555-5064		
308-0864 [1]	6461A	555-5007	382-8064	383-0164 383-0464
308-0866	JM207049 JM205149	555-5088 555-5089	382-8066	383-0166
308-0870	JF7049A	555-5297		
309-0903 [1]	580 582	555-5072	392-9094	393-0103

GUARDIAN® / GUARDIAN®HP SEAL NO.	INNER BEARING CONE	UNIVERSAL TOOL HEAD	STANDARD/ GRIT GUARD® SET	VOYAGER® DISCOVER® XR
309-0904 [1]	663 HM516449, -C	555-5072	392-9112	393-0104
309-0912	47685 47686	555-5031	392-9099	393-0112
	47678 5760	555-5074		
	47685 47686	555-5031	392-9099	
309-0935	33281 Thru 61	555-5002		
	33287 62 Up	555-5011		
309-0948	687 780	555-5004	392-9089	393-0148
	594A	555-5076	392-9132	
	598A	555-5071		
	595	555-5072	392-9096	
	598	555-5071		
	683XA 683	555-5076	392-9087	
	681A	555-5071		
309-0973 [1]	594 594A	555-5076	392-9131	393-0173 393-0473
	598 598A	555-5071		

[1] Use Universal Tool Body 555-0001 with 555 Series Tool Heads.

AXLE RING TO HUB SEAL SET CROSS REFERENCE

AXLE RING	OIL SEAL	HUB-SEAL SET
310-1008	320-2164	382-8066
310-1022	320-2023	372-7022
310-1036	320-2036	382-8036
310-1022	320-2023	372-7022
310-1043	320-2041	372-7015
310-1063	320-2057	392-9036
310-1064	320-2136	372-7049
310-1089	320-2099	392-9053
310-1130	320-2023	372-7062
315-1501	320-2102	392-9099
315-1502	320-2162	392-9087
315-1503	320-2023	372-7099

AXLE RING	OIL SEAL	HUB-SEAL SET
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
315-1510	320-2118	372-7095
315-1511	320-2129	392-9094
315-1515	320-2213	392-9112
315-1516	320-2097	392-9089
315-1519	320-2213	392-9130
315-1525	320-2106	392-9131
315-1530	320-2115	392-9132

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

OIL SEAL	AXLE RING	HUB-SEAL SET	INNER BEARING #	UNIVERSAL TOOL HEAD	HUB TOOL	COMMENT
320-2023	310-1022	372-7022	593	None	551-5401	I-Beam Axle Model 5
	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
320-2036	310-1036	382-8036	557A or HM212044	555-5061	551-5346	
			HM212047	555-5066	551-5346	
			HM212049	555-5098	551-5346	
			HM212049X	555-5098	551-5346	
320-2041	310-1043	372-7015	759	555-5023	551-5398	C&M K-30 Std. Forge TA- 26, A-26-S
320-2057	310-1063	392-9036	33281	555-5002	551-5353	
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	
			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
	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®
320-2114	315-1508	392-9096	595	555-5072	551-5412	Grit Guard® [1]
			598	555-5071	551-5412	
320-2115	310-1107	392-9066	592A/594A	555-5076	551-5356	Van Hool Bus Appl [1]
320-2118	315-1510	372-7095	665A	555-5069	551-5321	Grit Guard®
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®
320-2136	310-1064	372-7049	JM511946	555-5055	551-5381	
320-2137		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	310-1037	382-8066	JM207049	555-5088	551-5366	
320-2173	315-1503	372-7091	749 or 749S	555-5024	551-5401	Grit Guard®
320-2213	315-1515	392-9112	663 or HM516449,-C	555-5072	551-5364	Grit Guard®
		392-9130	HM516449A	555-5073		

[1] Oil seal installs in bearing cup bore.

STEMCO QUALITY BEARING REFERENCE GUIDE

P/N	FORMER P/N	INDUSTRY DESCRIPTION
HM212049	A212049	KHM212049, BEARING CONE
HM218248	A218248	KHM218248, BEARING CONE
HM518445	A518445	KHM518445, BEARING CONE
STMSET401	ASET580-72	K580/K572 BEARING SET
STMSET403	ASET594A-92A	K594A/K592A BEARING SET
STMSET406	ASET3782-20	K3782/K3720 BEARING SET
STMSET413	ASET049-011	KHM212049/KHM212011 BEARING SET
STMSET414	ASET248-210	KHM218248/KHM218210 BEARING SET
STMSET415	ASET445-410	HM518445/KHM518410 BEARING SET
STMSET423	ASET6461A-20	K6461A/K6420 BEARING SET
STMSET424	ASET555S-52A	K555S/K552A BEARING SET

	AXLE APPLICATIONS	OUTER BEARING CONE / CUP	MATCHED BEARING SET	INNER BEARING CONE / CUP	MATCHED BEARING SET
TRAILER AXLES	**Meritor TP Series**	HM518445 / HM518410	STMSET415	HM518445 / HM518410	STMSET415
	Meritor TN Series	HM212049 / HM212011	STMSET413	HM218248 / HM218210	STMSET414
STEER AXLES	**Meritor FF Series**	3782 / 3720	STMSET406	HM212049 / HM212011	STMSET413
	Meritor FL Series	552A / 555S	STMSET424	641A / 6420	STMSET423
DRIVE AXLES	**Meritor R Series**	580 / 572	STMSET401	594A / 592A	STMSET403

BEARINGS TO HUB SEAL SET CROSS REFERENCE

INNER CUP & CONE	OUTER CUP & CONE	GUARDIAN®/ GUARDIAN® HP SEAL NO.	GRIT GUARD®/ STANDARD SET	VOYAGER® DISCOVER® XR
553X/557A	3720/3782	308-0836	382-8036	383-0136 383-0436
572/580	563/567	309-0903	392-9094	393-0103
572/582	563/567	309-0903	392-9094	393-0103
592A/593	65320/65390		372-7022 372-7062	
592A/594	572/580	309-0973	392-9131	393-0173 393-0473
592A/594A	572/580		392-9132	
		309-0973	392-9131	393-0173 393-0473
592A/594A	572/582		392-9132	
592A/595	572/580		392-9096	
592A/598	572/575		392-9096*	
		309-0973	392-9131	393-0173 393-0473
592A/598A	653/665		392-9092	
592A/598	752/758		392-9092	
592A/598	HM617010/ HM617049		392-9092	
592A/598A	572/580		392-9132	
		309-0973	392-9131	393-0173 393-0473
592A/598A	572/582		392-9132	
592A/598	HM617010/ HM617049		392-9132	
632/641	28622/28682			383-0156
633/641	65320/65385			383-8139
652/663	572/575	309-0904	392-9112	393-0104
653/663	553X560	307-0713	372-7098	373-0113
653/663	HM212011/ HM212049	307-0713	372-7098	373-0113
653/665A	HM212011/ HM212049	307-0744	372-7095	
672/681A	572/575		392-9087	
672/683	572/580		392-9087	
672/683XA	572/580		392-9087	

INNER CUP & CONE	OUTER CUP & CONE	GUARDIAN®/ GUARDIAN® HP SEAL NO.	GRIT GUARD®/ STANDARD SET	VOYAGER® DISCOVER® XR
672/687	772/780	309-0948	392-9089	393-0148
672/687	52618/52400	309-0948	392-9089	393-0148
742/749	632/643		372-7091 372-7024	
742/749S	632/643		372-7091 372-7024	
752/758	663/665		392-9001	
752/759	742/740		372-7015	
752/760	742/749		392-9001	
772/780	772/776	309-0948	392-9089	393-0148
772/780	854/864	309-0948	392-9089	393-0148
772/780	52618/52400	309-0948	392-9089	393-0148
772/780	77675/77375	309-0948	392-9089	393-0148
772/782	742/749		392-9053	
832/843	632/636		382-8008	
5735/5760	572/575	309-0912		393-0112
6320/6379	552A/557S			383-0101
6320/6386	552A/557S			383-0101
6320/6386A	532A/537			
6320/6389	552A/557S			383-0101
6420/6461A	552A/555S	308-0864	382-8064	383-0164 383-0464
6420/6461A	3920/3979	308-0864	382-8064	383-0164 383-0464
6535/6559	653/663			393-0134
6535/6580	653/663			393-0134
33462/33281	3920/3982	309-0935		
33462/33281	39520/39585		392-9036	
33462/33287	3920/3982	309-0935		
33821/33895	3120/3196		382-8016	
39520/39581	3525/3585	308-0836	382-8036	383-0136 383-0436
		308-0863		
45220/45284	25820/25880	308-0863		
47620/47678	39520/39585	309-0912	392-9099	393-0112
47620/47685	39520/39590	309-0912	392-9099	393-0112

QUICK REFERENCE

BEARINGS TO HUB SEAL SET CROSS REFERENCE

INNER CUP & CONE	OUTER CUP & CONE	GUARDIAN®/ GUARDIAN® HP SEAL NO.	GRIT GUARD®/ STANDARD SET	VOYAGER® DISCOVER® XR
47620/47686	39520/39590	309-0912	392-9099	393-0112
				393-0112
H715311/ H715345	552A/555S			383-0156
H715311/ H715345	3920/3979	308-0853		
HM212010/ HM212049	28622/28682	308-0853		
HM212011/ HM212044	3720/3782	308-0836	382-8036	383-0136 383-0436
HM212011/ HM212047	3720/3782	308-0836	382-8036	383-0136 383-0436
HM212011/ HM212047	45220/ 45282			383-0171
HM212011/ HM212049	3720/3782	308-0836	382-8036	383-0136 383-0436
HM212011/ HM212049	45220/45280			383-0139
HM212011/ HM212049X	3720/3782	308-0836	382-8036	383-0136 383-0436
HM218210/ HM218248	HM212011/ HM212049	307-0743	372-7097	373-0143 373-0443
JM205110/ JM205149	25820/25877	308-0866	382-8066	383-0166
JM207010/ JM207049	25820/25877	308-0866	382-8066	383-0166
HM516410/ HM516449	47620/47679	309-0904	392-9112	393-0104
HM516410/ HM516449A	47620/47679	309-0904	392-9130	393-0104
HM518410/ HM518445	HM518410/ HM518445	307-0723	372-7099	373-0123 373-0423
JM205110/ JM204149A	25820/25877		382-8066	383-0166
JM511910/ JM510946	JM205110/ JM205149		372-7049	
JF7049A		308-0870		

WHEN IT COMES TO WHEEL ENDS, WE HAVE YOU COVERED

STEMCO has provided the trucking industry with reliable hub seals for more than 70 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® XR IS DESIGNED FOR THE LONG HAUL CARRIER seeking high performance components. The Discover® XR 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

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
INSTALLATION HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	372-7098
VOYAGER® EQUIV.	373-0113
DISCOVER® XR EQUIV.	

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 307-0723	
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® XR EQUIV.	373-0423

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 307-0743	
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
INSTALLATION HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	372-7097
VOYAGER® EQUIV.	373-0143
DISCOVER® XR EQUIV.	373-0443

REMARKS: Will not fit Std. Forge Hub mfg. 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 307-0744	
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
INSTALLATION 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.

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® XR TRAILER AXLE HUB SEALS

VOYAGER & DISCOVER XR - TRAILER AXLE 373-0113

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
INSTALLATION 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 XR - TRAILER AXLE 373-0123 373-0423

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
INSTALLATION 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 & DISCOVER XR - TRAILER AXLE 373-0143 373-0443

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
INSTALLATION 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 K-22 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 373-0144

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
INSTALLATION 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**. 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® XR seals).

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

STANDARD TRAILER AXLE HUB SEALS

STANDARD - TRAILER AXLE 372-7015

BORE DIAMETER	6.437
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

STANDARD - TRAILER AXLE 372-7022

BORE DIAMETER	6.008
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 372-7049

BORE DIAMETER	4.500
OIL SEAL BORE DIAMETER	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
INSTALLATION 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
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
INSTALLATION 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

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.

GRIT GUARD® TRAILER AXLE HUB SEALS

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 Gunite wheels R20-319 or T22-319.

RELATED PARTS	
HUB CAP W/ GASKET**	GASKET NUMBER**
	330-3011
	330-3104
	330-3056

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
INSTALLATION 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**.

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

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.

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

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
INSTALLATION 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

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
INSTALLATION 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

GUARDIAN® STEER AXLE HUB SEALS

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
INSTALLATION HANDLE/BODY	555-0001
STANDARD SET EQUIV.	382-8036
VOYAGER® EQUIV.	383-0136
DISCOVER® XR EQUIV.	383-0436

REMARKS: Ford 9000# axle. Code N (FD-900),with 15x3 or 15x3-1/2 wedge brakes. GMC only (FE-900),prior to 1960 use, **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
340-4186	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.	
VOYAGER® EQUIV.	

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

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® STEER AXLE HUB SEALS

GUARDIAN - FRONT AXLE 308-0863

BORE DIAMETER	4.542
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.	
INSTALLATION HANDLE/BODY	555-0001

RELATED PARTS

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

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
INSTALLATION HANDLE/BODY	555-0001
STANDARD SET EQUIV.	382-8064
VOYAGER® EQUIV.	383-0164
DISCOVER® XR EQUIV.	383-0464

RELATED PARTS

HUB CAP W/ GASKET**	GASKET NUMBER**
340-4046	330-3009
340-4249	330-3122
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
INSTALLATION 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

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® XR STEER AXLE HUB SEALS

VOYAGER - FRONT AXLE 383-0136 383-0436

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
INSTALLATION 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. GMC only (FE-900), prior to 1960, use **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
340-4042	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

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
INSTALLATION HANDLE/BODY	551-0001
STANDARD SET EQUIV.	

REMARKS: 383-0139 must be used with **310-1132** ring, Must be ordered as **383-8139** to receive **310-1132** ring.

RELATED PARTS

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

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

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® XR seals).

* Not available with pipe plug.

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

SEAL SETS: STEER AXLES

VOYAGER® & DISCOVER® XR STEER AXLE HUB SEALS

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
INSTALLATION HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	
STANDARD SET EQUIV.	

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 383-0464

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
INSTALLATION 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
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
INSTALLATION HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	308-0866
STANDARD SET EQUIV.	

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

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

STANDARD STEER AXLE HUB SEALS

STANDARD - STEER AXLE 382-8036

AXLE RING	
OIL SEAL BORE DIAMETER	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-X1
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
INSTALLATION HANDLE/BODY	555-0001 & 551-0001

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

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

STANDARD - STEER AXLE 382-8064

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
INSTALLATION 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
343-4249	330-3122
340-4066	330-3041
340-4095	330-3009
340-4149	330-3097
340-4098	330-3009

STANDARD - STEER AXLE 382-8066

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
INSTALLATION HANDLE/BODY	555-0001 & 551-0001

REMARKS: N/A

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

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® XR seals).

* Not available with pipe plug.

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

GUARDIAN® & GUARDIAN® HP DRIVE AXLE HUB SEALS

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
INSTALLATION HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9094
VOYAGER® EQUIV.	393-0103

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
INSTALLATION HANDLE/BODY	555-0001
VOYAGER® EQUIV.	393-0104

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.

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
INSTALLATION HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9099
VOYAGER® EQUIV.	393-0112

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

For Navistar w/ 39585 outer cone, use **392-9099**.

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® & GUARDIAN® HP DRIVE AXLE HUB SEALS

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
INSTALLATION HANDLE/BODY	555-0001

GUARDIAN HP - DRIVE AXLE 309-0973

BORE DIAMETER	6.310
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
INSTALLATION HANDLE/BODY	555-0001
GRIT GUARD® EQUIV.	392-9131
VOYAGER® EQUIV.	393-0173
DISCOVER® XR EQUIV.	393-0473

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

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 to be installed before axle ring. Eaton 19 series single or 44D tandem with 4.500 spindle shoulder require shoulder bushing be to 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. OD 4.776, ID 4.369, Width .980 OD 4.767, ID 4.500, Width .950.

VOYAGER® & DISCOVER® XR DRIVE AXLE HUB SEALS

VOYAGER - DRIVE AXLE 393-0103

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
INSTALLATION 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.

VOYAGER - DRIVE AXLE 393-0104

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
INSTALLATION 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.

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
INSTALLATION HANDLE/BODY	551-0001
BEARING GUIDE	570-0032
GUARDIAN® EQUIV.	309-0948
GRIT GUARD® EQUIV.	392-9089

REMARKS: None

VOYAGER - DRIVE AXLE 393-0112

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
INSTALLATION HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	309-0912
GRIT GUARD® EQUIV.	392-9099

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
INSTALLATION HANDLE/BODY	551-0001
GRIT GUARD® EQUIV.	392-9034

REMARKS: None

VOYAGER & DISCOVER XR - DRIVE AXLE 393-0173 393-0473

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.	4.767
WIDTH	1.1270
FLEET HUB TOOL	551-5320
INSTALLATION HANDLE/BODY	551-0001
GUARDIAN® EQUIV.	309-0973
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 38D tandem with 4.375 spindle shoulder require shoulder bushing to be installed before axle ring.

Eaton 19 series single or 44D tandem with 4.500 spindle shoulder require shoulder bushing 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.*

OD 4.776, ID 4.369, Width .980

OD 4.767, ID 4.500, Width .950.

STANDARD DRIVE AXLE HUB SEALS

STANDARD - DRIVE AXLE 392-9036

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.

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
INSTALLATION 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.

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).

GRIT GUARD® DRIVE AXLE HUB SEALS

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
INSTALLATION 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 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.

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
INSTALLATION 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

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
INSTALLATION 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

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.

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® XR seals).

GRIT GUARD® DRIVE AXLE HUB SEALS

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
INSTALLATION 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	309-0912
VOYAGER® HUB SEAL	393-0112

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
INSTALLATION 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® HUB SEAL	393-0104

GRIT GUARD - DRIVE AXLE 392-9130

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
INSTALLATION HANDLE/BODY	555-0001 & 551-0001

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

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

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
INSTALLATION 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 to be installed before axle ring. Eaton 19 series single or 44D tandem with 4.500 spindle shoulder require shoulder bushing 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.

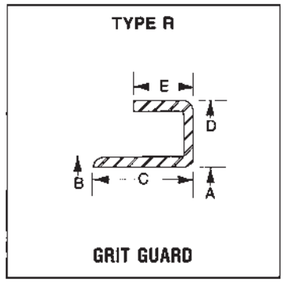
RELATED PARTS	
GUARDIAN® HP WHEEL SEAL	309-0973
VOYAGER® WHEEL SEAL	393-0173
DISCOVER® XR WHEEL SEAL	393-0473

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® XR seals).

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

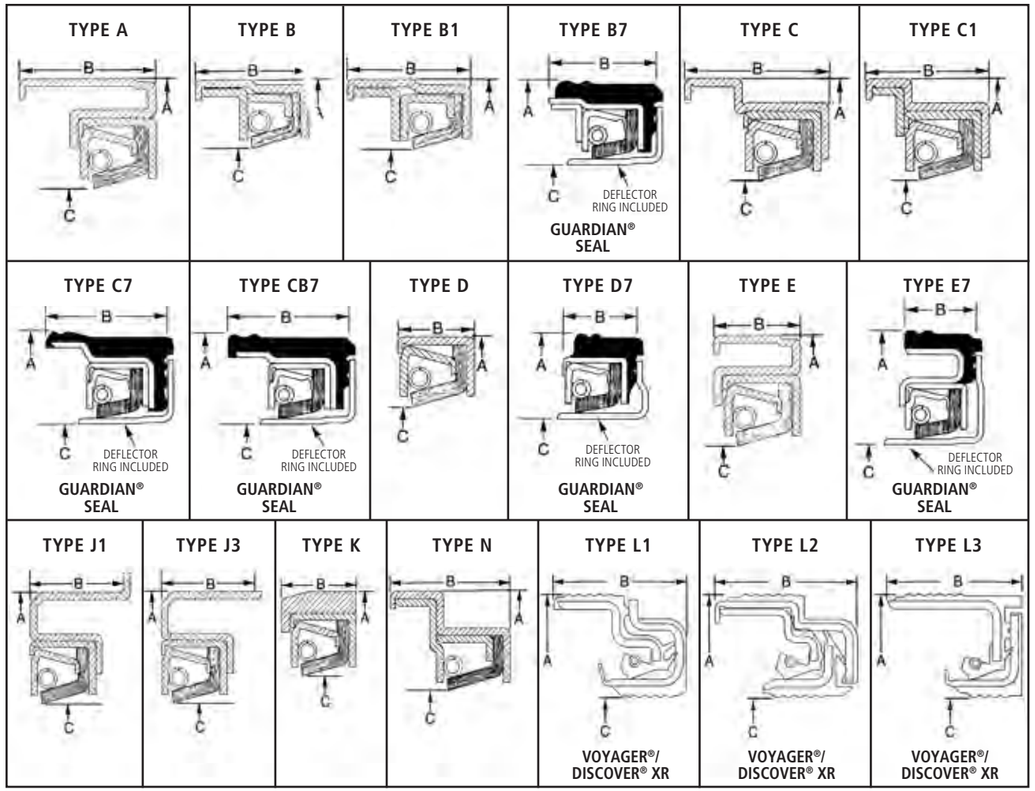
GRIT GUARD® DEFLECTOR RING	DEFLECTOR RING TYPE	A FOR SHOULDER O.D.	B SEAL AREA O.D.	C WIDTH	D FLANGE O.D.	E FLANGE WIDTH
315-1501	R	3.875	3.972	1.052	5.250	0.520
315-1502	R	4.767	4.854	1.008	6.147	0.630
315-1503	R	4.250	4.338	0.667	5.625	0.453
315-1504	R	4.625	4.730	0.730	5.875	0.430
315-1506	R	5.250	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 [2]	E7	5.750	.604	4.000
307-0723 [2]	E7	6.008	.563	4.250
307-0743 [2]	D7	6.000	.584	4.625
307-0744	C7	5.753	1.015	4.375
308-0836 [2]	CB7	4.840	.840	3.500
308-0853	D7	5.372	.518	4.500
308-0855 [1]	CB7	5.875	.820	4.500
308-0863	B7	4.542	.760	3.500
308-0864 [2]	E7	5.903	.955	4.375
308-0866	D7	3.875	.495	2.875

GUARDIAN® SEAL NUMBER	TYPE	A FOR BORE DIAMETER	B WIDTH	C FOR SHOULDER O.D.
308-0870	E7	5.512	.820	3.937
309-0903 [2]	D7	5.750	.516	4.500
309-0904 [2]	E7	6.250	.548	4.250
309-0912	E7	5.690	.555	3.875
309-0935	D7	4.750	.541	3.437
309-0948	E7	7.375	.735	5.250
309-0961	E7	6.064	.562	4.262
309-0973 [2]	C7	6.310	.910	4.767

[1] Deflector ring width is .855.
[2] 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
320-2009	C	6.251	1.127	4.955
320-2018	B	4.125	.780	2.980
320-2023	N	6.008	.914	4.377
320-2031	A	5.000	.890	3.623
320-2039	B	5.125	.984	4.041
320-2041	A	6.437	.906	4.955
320-2059	D	6.250	.572	5.377
320-2061	C1	6.003	.895	4.955
320-2077	D	3.937	.473	3.125
320-2086	A	5.625	.600	4.127
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
320-2106	N	6.310	1.141	4.872

STEMCO SEAL NUMBER	TYPE	A FOR BORE DIAMETER	B WIDTH	C FOR AXLE RING O.D. +/- .010
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
320-2118	N	5.753	.912	4.480
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
320-2162	C1	7.000	1.320	4.872
320-2164	B	3.875	.750	2.980
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

VOYAGER®/DISCOVER® XR OIL SEAL DIMENSIONS BY PART NUMBER

VOYAGER®/ DISCOVER® XR 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
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
383-0156	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
393-0103	L2	5.750	1.006	4.500

VOYAGER®/ DISCOVER® XR 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
393-0134	L2	6.000	.790	4.875
393-0148	L2	7.375	1.000	5.250
393-0173	L1	6.310	1.127	4.767
373-0423	L1	6.008	.995	4.250
373-0443	L1	6.000	.981	4.625
383-0436	L1	4.840	.932	3.500
383-0464	L2	5.903	1.030	4.375
393-0473	L2	6.310	1.127	4.767

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

OIL SEAL SPECIFICATIONS

COMPONENT 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
5.512	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

A FOR BORE DIAMETER	GUARDIAN® TYPE	B WIDTH	C FOR SHOULDER O.D.	GUARDIAN® SEAL NUMBER
5.875	CB7	.820	4.500	308-0855 [1]
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
6.310	C7	.910	4.767	309-0973
7.375	E7	.735	5.250	309-0948

[1] Deflector ring width is .885.

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
3.875	B	.750	2.980	320-2164
3.937	D	.473	3.125	320-2077
4.125	B	.780	2.980	320-2018
4.542	B1	.816	3.623	320-2133
5.000	A	.890	3.623	320-2031
5.250	B	1.043	3.972	320-2102
5.372	B1	.937	4.600	320-2181
5.500	C1	1.000	4.041	320-2104
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
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

A FOR BORE DIAMETER	SEAL TYPE	B WIDTH	C FOR AXLE RING O.D. +/- .010	STEMCO OIL SEAL NUMBER
6.003	C1	.895	4.955	320-2061
6.008	N	.914	4.377	320-2023
6.032	N	.875	4.377	320-2173
6.250	N	1.023	4.485	320-2131
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
6.437	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

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

343-4075
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.

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.

340-0044
Steer

340-5096
Trailer

340-5097
Trailer

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.

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.

Hubodometer® Hub Caps

STEMCO Hubodometer hub caps provide ease and convenience when installing our mechanical or electronic DataTrac® Hubodometers. The 347 series aluminum hub cap is mounted with a hubo 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.

343-4370
PSI™

368-4195
Trailer
363-4009
Trailer
366-4024
Steer

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, HUBO 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	363-4024
1642	SKF	343-4013
1643	SKF	343-4009
1643	SKF	360-4009
1643	SKF	363-4009
1643	SKF	366-4009
1643	SKF	368-4009
1682	SKF	343-4075
1696	SKF	343-4195
1696	SKF	360-4195
1696	SKF	363-4195
1696	SKF	366-4195
1696	SKF	368-4195
1703	SKF	343-4249
1711	SKF	343-4024
1742	SKF	343-4013
1743	SKF	343-4009
1743	SKF	343-4046
1743	SKF	343-4095
1753	SKF	343-4249
1788	SKF	343-4249
1800	SKF	347-4009
1811	SKF	343-4024
1742	SKF	343-4013
1843	SKF	343-4009
1843	SKF	343-4046
1843	SKF	343-4095
1890	SKF	343-4249
340-009	National	340-4009

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO PART NO.
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
506085	Eaton	343-4024
506089	Eaton	343-4249
64009	TriSeal	343-4009
64009H	TriSeal	347-4009
64013	TriSeal	343-4013
64024	TriSeal	343-4024
64042	TriSeal	343-4024
64046	TriSeal	343-4046
64046	TriSeal	343-4095
64046	TriSeal	343-4249
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
C43-4009BP	SKF	303-4009
C43-4013	SKF	343-4013
C43-4024	SKF	343-4024
C43-4075	SKF	343-4075

COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO PART NO.
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-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
HU009A	National	343-4009
HU009A	National	343-4046
HU013A	National	343-4013
HU024A	National	343-4024
HU110A	National	343-4095
HU110A	National	343-4249

HUB CAP TORQUE SPECS

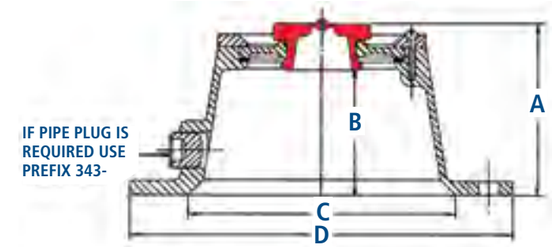
THREADED HUB CAPS	
XXX-4075	100 ft/lbs
340-4975	50-60 ft/lbs
340-4976	50-60 ft/lbs
640-0003	50-60 ft/lbs

HUB CAP MOUNTING BOLTS			
1/4"	8-12 ft/lbs	5/8"	22-26 ft/lbs
5/16"	12-16 ft/lbs	3/4"	24-28 ft/lbs
3/8"	16-20 ft/lbs	7/8"	26-30 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 COMPONENTS		
359-6032	#8 Torx Screw	18-23 in/lbs
359-5984	3/8" Mag Plug	5-9 ft/lbs
359-5985	3/8" Pipe Plug	5-9 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
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	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
5-1/2	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	343-4342	330-3009
5-9/16	5/16	6	2-7/8	2-1/8	3-11/16	6-3/8	340-4149	330-3097
6	5/16	6	2-1/2	1-3/4	4-15/16	6-7/8	343-4176	330-3060
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
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

[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

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

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.

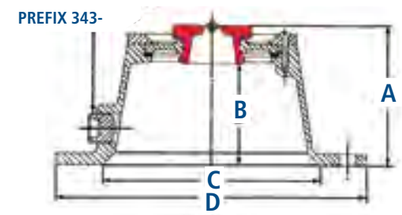
THREADED HUB CAPS	
PART #	TORQUE
XXX-4075	100 ft. lbs.
340-4975	50-60 ft. lbs.
340-4976	50-60 ft. lbs.
640-0003	50-60 ft. lbs.

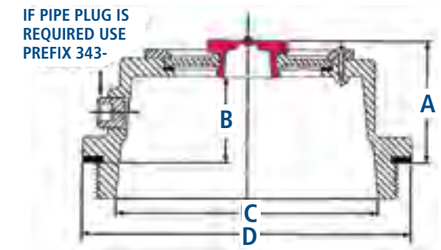
HUBO WINDOW OPTIONS		
STEMCO BASE PART #	GREASE CAP PART #	OIL CAP PART #
4009	347-4278	347-4009
4195	347-4342	347-4195

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

HUB CAP SPECIFICATIONS

HUB CAPS BY CAP NUMBER





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
340-4013 [4]	5-1/2	5/16	5	2-11/16	1-15/16	4-3/8	6-1/4	330-3013	359-5995
340-4019	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
340-4034	6-5/8	1/4	6	2-13/16	2-1/16	5-5/16	7-1/8	330-3034	359-5999
340-4042	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
340-4065	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
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
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
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
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
340-4249 [3]	5-1/2	5/16	6	1-13/16	1-11/16	4-7/16	6-3/16	330-3122	359-5912
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
343-4308 [2, 7]	4-1/2	5/16	6	2-5/8	1-7/8	3-1/2	5-1/4	330-3024	NONE
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, 6]	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, 5]		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, 5]		6-1/4 X 8 UN (M)		2-5/16	1-9/16	5-3/4	6-7/8	330-3077	NONE
340-4977 [8]		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. Also available with Hubo window when ordered with 347 prefix. See options below.
5. Lexan hub caps, order in multiples of 25
6. 4009 with small vent plug **359-5915**
7. 4024 with small vent plug
8. 4975 individually boxed

COMPONENT SPECIFICATIONS

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

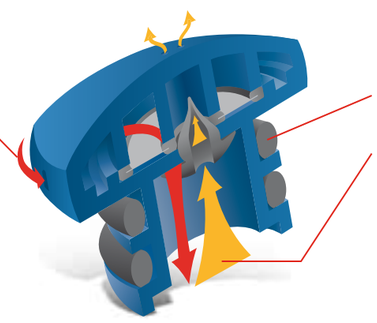
SENTINEL HUB CAP

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
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	366-4009	368-4009	5 1/2"	5/16"	6	330-3009		
4046	356-4046	358-4046	5 1/2"	5/16"	6	330-3009	359-6145	359-6146
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
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		

To relieve vacuum, the Sentinel interior check valve lifts slightly, drawing air into the wheel end through the water-resistant filter. The duck-bill check valve remains closed, blocking dirt, grime and other contaminants from entering.



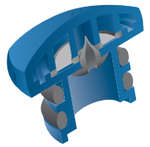
A second O-ring increases plug retention.

To relieve pressure, the duck-billed pressure relief valve opens, allowing pressure to vent out. The umbrella check valve remains closed, stopping lubricant from leaking out and contaminants from flowing in.

HUB CAP SPECIFICATIONS

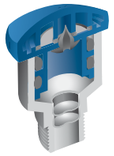
SENTINEL® ESP (EXTENDED SERVICE PLUG)

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)



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		343-4371	343-4374
4195	340-4372	343-4372	
4384			
Window Kits	359-6141	359-6140	

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

Grease Hub Cap
340 Series

Oil Hub Cap
343 Series

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		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 [1]	4371 [1]	4372 [1]
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

[1] PSI Hub Cap

HUB CAP CROSSOVER

COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #
1282	C/R	340-4975
1612	C/R	343-4024
1642	C/R	343-4013
1643	C/R	343-4249
1682	C/R	343-4075
1696	C/R	343-4195
1703	C/R	343-4249
1711	C/R	343-4024
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
1788	C/R	343-4249
1800	C/R	347-4009
1811	C/R	343-4024
1842	C/R	343-4013
1843	C/R	343-4009
1843	C/R	343-4046
1843	C/R	343-4095
1890	C/R	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
506085	Eaton	343-4024

COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #
506089	Eaton	343-4249
64009	TriSeal	343-4009
64009H	TriSeal	347-4009
64013	TriSeal	343-4013
64024	TriSeal	343-4024
64046	TriSeal	343-4046
64046	TriSeal	343-4095
64046	TriSeal	343-4249
64075A	TriSeal	343-4075
64075G	TriSeal	342-4075
64075P	TriSeal	340-4975
64249	TriSeal	343-4249
812928	Eaton	343-4095
815214	Eaton	343-4195
821338	Eaton	343-4009
821907	Eaton	343-4009
C40-4009	C/R	340-4009
C40-4009BP	C/R	300-4009
C40-4975	C/R	340-4975
C40-4975BP	C/R	340-4975
C40-5097BP	C/R	340-5097
C43-4009	C/R	343-4009
C43-4009BP	C/R	303-4009
C43-4013	C/R	343-4013
C43-4024	C/R	343-4024
C43-4075	C/R	343-4075
C43-4095	C/R	343-4095
C43-4098	C/R	343-4098

COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #
C43-4249	C/R	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-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
HU009A	National	343-4009
HU009A	National	343-4046
HU013A	National	343-4013
HU024A	National	343-4024
HU110A	National	343-4095
HU110A	National	343-4249

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 #
340-5096 [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
362-4195*	6-3/4	5/16	6	330-3118

*No Duckbill Vent

352-4195

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
342-4195	6-3/4	5/16	6	3-11/16	2-15/16	5-7/16	7-1/2	330-3118	359-6095

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

342-4009

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	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
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	340-4976	Clear polycarbonate hub cap with solid face–no vent
Grease		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

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

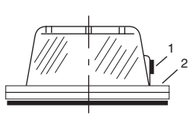
VENTED HUBODOMETER® HUB CAPS

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	
640-0003*	330-3077		6-1/4 x 8 UN(M)		

*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

COMPONENT 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

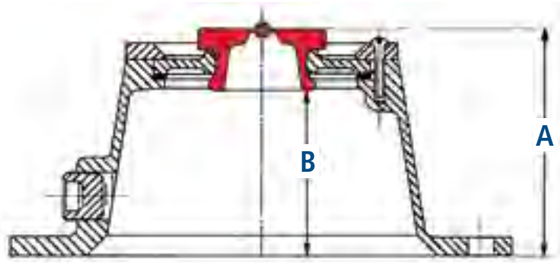
[7] Two sets required

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



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.

5–1/8" 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

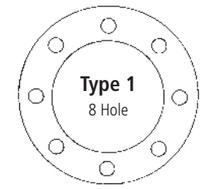
CAP NO.	INSIDE (B)	OUTSIDE (A)
340-4149	2-1/8	2-7/8
340-4249 [1]	1-11/16	1-13/16

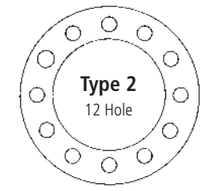
5–1/2" Bolt Circle with Six 5/16" Mounting Bolts

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

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 Meritor White	E 2340 2208Z416 476375	All Meritor Standard Q wheel ends except some SQHP.
330-3106	Euclid Meritor	E 2341 2208W412	All Meritor Standard R wheel ends.
330-3107	Euclid Meritor	E 2431 2208X440	All E18, E19, E38D & 44D series.
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 Meritor Kenworth White	E 2435 2208W413 K134 - 171 453157	All Meritor Standard R wheel ends, STD series, SUD series, U wheel ends, SFD 4600, SQHP, SQ100, SQ100P, 4640 Eaton.
330-3112	Euclid	E 2436	IHC 34000# - RA 351 axles.
330-3113	Euclid	E 2437	Meritor Standard L-172 Eaton 18 series and 34D.
330-3114	Euclid Meritor White	E 2438 2208Z422 467836	Meritor Standard L wheel ends except L-172, SJHD, SLHD.
330-3115	G.M.C.	236Z158	Fits 1965 - 1974 G.M.C. - Chev. 18000# Single or 34000# Tandem Eaton 14569.

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.

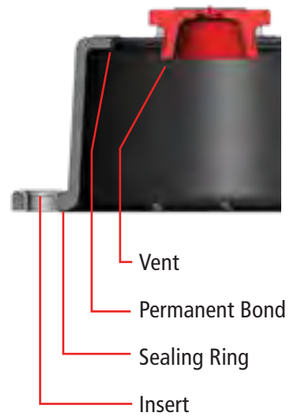
OPTIONS

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	25
1612	303-4024	363-4024	Red Rubber Plug - "FF" - w/ side fill - Bulk	25
1612	356-4024	366-4024	Sentinel Oil - "FF" w/ magnetic fill plug - Bulk	25
1643	300-4009	360-4009	Red Rubber Plug "N"- Bulk	25
1643	303-4009	363-4009	Red Rubber Plug "N" w/ side fill - Bulk	25
1643	356-4009	366-4009	Sentinel Oil - "N" w/ magnetic fill plug - Bulk	25
1643	358-4009	368-4009	Sentinel Grease "N"- Bulk	25
1696	340-4195	360-4195	Red Rubber Plug "P"- Bulk	25
1696	343-4195	363-4195	Red Rubber Plug "P" w/ side fill - Bulk	25
1696	356-4195	366-4195	Sentinel Oil - "P" w/ magnetic fill plug - Bulk	25
1696	358-4195	368-4195	Sentinel Grease "P"- Bulk	25

NOTES

TRACKING DISTANCE? NO PROBLEM.

To make roadways safer, STEMCO has provided the trucking industry with reliable and innovative mileage solutions for more than 70 years. We leverage the latest technologies to provide solutions that reduce vehicle maintenance costs and increase fleet safety—helping fleets run a more cost effective business with maximum performance and value. Whether for maintenance purposes or logging miles, accuracy is critical – and STEMCO delivers this with data more accurate than competing GPS solutions.

HUBODOMETER®

Guaranteed to deliver the best in mileage accuracy, the Hubodometer® is the most economical, accurate and convenient way of tracking mileage for preventive maintenance, leases and warranties.

- Reliable mileage information
- Spring-loaded counter-weight eliminates spin for greater accuracy
- Preset your Hubodometer® to collect customized data
- 500,000-mile warranty
- Product number: 650-XXXX

DataTrac® DataTrac® PRO

With unparalleled accuracy, the DataTrac® and DataTrac® Pro Electronic Hubodometers are indispensable tools for scheduling maintenance, determining lease charges, and managing costs per mile.

- Large, easy-to-read LCD display
- Compact size, easy to mount
- 500,000 mile/4-year warranty
- No moving parts increases reliability and durability
- DataTrac is factory programmed
- DataTrac Pro is field programmable
- DataTrac product number: 600-5REV (miles), 600-4REV (kilometers)
- DataTrac Pro product number: 600-9999

DataTrac® SVT™

Handwritten logs aren't needed with the DataTrac® SVT Electronic Mileage Sensor, an electronic sensor that provides mileage collection and can schedule maintenance by mileage activity rather than time.

- Electronic mileage sensor
- 500,000 mile/4-year warranty
- Two versions available – Tamperproof and Lifetime Reprogrammable
- Wireless readings
- Easily imports readings to fleet management software
- DataTrac SVT (Reprogrammable) product number: 607-8004
- DataTrac SVT (Tamperproof) product number: 607-8005

GATE READER | SVT™

Automate and manage mileage and fuel information to improve fleet operations with the GateReader SVT, an innovative solution to better inform personnel by automatically collecting readings.

- Automatic data collection
- WiFi capability eliminates monthly cellular charges
- Reads all DataTrac® SVT sensor types
- Eliminates costly telematics hardware need for each trailer

DataTrac® Programmer

Working in conjunction with DataTrac® Pro, the DataTrac® Programmer can program in mileage presets and tire calibrations.

- Programmable to in mileage presets, tire calibrations, and distance units in miles, kilometers, revolutions with calibrations 1-1999.
- Easy-to-read LCD display
- Battery powered and portable for programming
- Product number: 801-6000

Datatrac® Battery

Significantly improved life of your equipment with the DataTrac® Battery.

- Now supporting battery life up to 10 years
- Extends warranty from three to four years

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

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.

* 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.

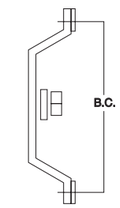
HUBODOMETER® MOUNTS

POPULAR HUBODOMETERS® (IN POPULARITY ORDER)

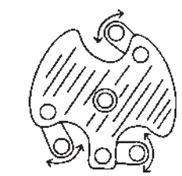
PART #	RPM	BLANK TENTHS PART #	PART #	RPKM
650-0610	522	650-0611	650-0537	310
650-0598	500	650-0600	650-0532	300
650-0613	532	650-0614	650-0539	315
650-0601	504	650-0602	650-0545	324
650-0605	513	650-0606	650-0541	320
650-0587	480	650-0588	650-0549	357

HUBODOMETER® BRACKETS

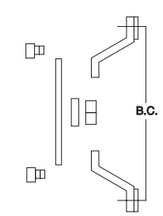
PART #	BOLT CIRCLE	STUD SIZE	HEIGHT	PART #	STYLE
6100001	5 1/4	1/2	1 11/16		A
6100002	5 1/2	5/8	1 11/16		A
6100003	6 3/8 – 6 1/2	1/2 – 9/16	1 11/16		A
6100005	7 1/4	9/16	1 11/16		A
6100006	7	5/8	1 11/16		A
6100007	7	3/4	1 11/16		A
6100008	7 1/2	5/8	1 9/16		A
6100009	7 1/2	5/8	3 11/16		A
6100010	8 5/8	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	
6100029	6 3/4	5/16	6	Sentinel, PSI, AirGo Caps – 3 Leg	
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	
640-0003*	330-3077		6-1/4 x 8 UN(M)		

*Vented

640-0001

640-0003

ENJOY OPTIMAL PERFORMANCE WITH PRECISE INSTALLATION

Every truck component is critical in ensuring exceptional performance, and that makes proper component installation even more critical. STEMCO axle tools are engineered to fit your STEMCO seals perfectly so installation is fast and easy. Because the fit is spot on, our axle tools prevent damage of the seals and neighboring components so everything stays in optimal shape. Without the risk of damage, you can relax knowing your STEMCO seals will be doing their job — keeping your truck on the road longer and making the roadways safer.

UNIVERSAL AXLE TOOLS

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
308-0863	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

GUARDIAN® SEAL	INNER BEARING CONE NUMBER	INNER BEARING CONE ID OR SPINDLE OD	UNIVERSAL AXLE TOOL HEAD
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
309-0935	33287	2.875	555-5011
	33281	2.812	555-5002
309-0948	687/780	4.000	555-5004
309-0961	580/582/663A	3.250	555-5072
309-0965	595	3.250	555-5072
	598	3.625	555-5071
309-0973 [1]	594/594A	3.750	555-5076
	598/598A	3.625	555-5071

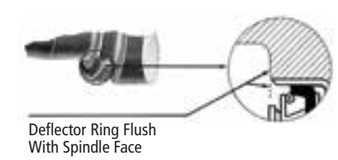
Use Universal Tool Body 555-0001 with 555 Series Tool Heads.
[1] HP Design

UNIVERSAL AXLE 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
310-1008	382-8066	JM207049	2.165	555-5088
	382-8066	JM205149	1.968	555-5089
310-1012	392-9012	47686	3.250	555-5031
	392-9012	5760,47678	3.000	555-5074
310-1013	382-8001	6379	2.562	555-5014
	382-8001	6386, 6389	2.625	555-5060
310-1022	372-7022	593	3.500	
310-1023	372-7024	749, 749S	3.347	555-5024
		HM518445	3.500	555-5023
310-1036	382-8036	557A, HM212044	2.375	555-5061
		HM212047	2.500	555-5066
		HM212049,-X	2.625	555-5098
310-1037	382-8064	6461A	3.000	555-5007
310-1038	382-8039	HM212049, 641	2.625	
310-1063	392-9036	33281	2.812	555-5002
310-1064	372-7049	JM511946	2.557	555-5055
		3984	2.625	555-5097
310-1089	392-9053	782	4.125	555-5016
310-1093	382-8056	H715345	2.812	555-5070
	382-8056	641	2.625	555-5060
310-1107	392-9066	594A	3.750	555-5076
310-1130	372-7062	592A, 593	3.500	555-5023

AXLE RING	SEAL SET	INNER BEARING CONE NUMBER	INNER BEARING CONE ID OR SPINDLE OD	UNIVERSAL AXLE TOOL HEAD
310-1132	383-8139	663/641		
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
	392-9097	594A,598A	3.625	555-5071
315-1503	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
315-1508	392-9092	598	3.625	555-5071
	392-9096	598	3.625	555-5071
	392-9096	595	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
	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
555-5001	3778	**310-1061**
555-5002	33281	**309-0935** **310-1062**
555-5004	687 780	**309-0948** **315-1516**
555-5007	6461A	**308-0864**
555-5011	33287 567	**309-0935** **310-1062**
555-5014	6379	**310-1013**
555-5016	782, 787	**310-1089** **315-1506**
555-5023	HM518445 759 6580 592A 593	**307-0723** **310-1023** **315-1503**
555-5024	749 749S	**310-1005** **315-1503**
555-5031	47685 47686 663	**309-0912** **310-1012** **310-1027** **310-1057** **310-1091** **315-1501**
555-5036	45284, 45285	**310-1052**
555-5054	188931	**310-1068** **310-1104**
555-5055	JM511946	**310-1064**

UNIVERSAL AXLE TOOL HEAD NO.	INNER CONE	GUARDIAN® SEAL AXLE RING OR DEFLECTOR RING
555-5060	641 HM212049 6386A 6386 6389	**308-0853** **308-0855** **310-1009** **310-1013** **310-1093**
555-5061	HM212044 557A	**308-0836**
555-5062	39581 387AS 7451929	**308-0836** **308-0863** **310-1017** **310-1068** **310-1104**
555-5064	45284	**308-0863**
555-5066	HM212047	**308-0836** **310-1034**
555-5069	665A 758	**307-0744** **310-1095** **315-1510**
555-5071	598 598A 681A	**309-0973** **310-1079** **315-1502** **315-1508** **315-1525** **315-1530**
555-5072	H715345 580 582 663-A, HM516449,-A 595 598 6559	**309-0903** **309-0904** **309-0961** **310-1007** **310-1053** **310-1093** **315-1508** **315-1509** **315-1511** **315-1515**

UNIVERSAL AXLE TOOL HEAD NO.	INNER CONE	GUARDIAN® SEAL AXLE RING OR DEFLECTOR RING
555-5073	HM516449A	**315-1519**
555-5074	47678 5760 495AX 42688 575	**309-0912** **310-1012** **310-1018** **310-1053** **315-1501**
555-5076	594A 594 693 683XA 683 598A	**309-0960** **309-0970** **309-0973** **310-1093** **310-1107** **310-1233** **315-1502** **315-1517** **315-1525** **315-1530** **391-9066**
555-5079	760	**310-1045** **310-1095**
555-5081		**310-1007**
555-5088	JM207049	**308-0866**
555-5089	JM205149	**308-0866**
555-5098	HM212049,-X	**308-0836**
555-5100	663, 6386	**307-0713** **310-1013** **315-1507**
555-5291	H414245A	**381-0148**
555-5292	32219	**391-0138**
555-5295	HM212047	**381-0150**
555-5296	32216	**391-0139**
555-5297	JF7049A	**308-0870**

FLEET HUB TOOLS

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

OIL SEAL	HUB TOOL	HUB-SEAL SETS
320-2001	551-5398	392-9001
320-2007	551-5326	372-7045
320-2012	551-5405	392-9012
320-2018	551-5351	382-8018
320-2021	551-5385	392-9021
320-2023	551-5401	372-7020, 372-7022, 372-7062, 372-7099
320-2028	551-5385	392-9043
320-2029	551-5386	372-7018, 382-8029
320-2031	551-5388	372-7055, 372-7056, 382-8025
320-2032	551-5388	372-7009
320-2036	551-5346	382-8036
320-2039	551-5395	382-8023, 382-8039
320-2041	551-5398	372-7004, 372-7015, 372-7017
320-2046	551-5388	372-7005, 372-7006
320-2051	551-5388	372-7008
320-2057	551-5353	392-9036
320-2059	551-5317	See 392-9053 Remarks
320-2061	551-5356	392-9034
320-2072	551-5308	372-7048
320-2086	551-5311	382-8001
320-2097	551-5400	392-9089
320-2099	551-5317	392-9053

OIL SEAL	HUB TOOL	HUB-SEAL SETS
320-2102	551-5318	392-9099
320-2106	551-5320	392-9131
320-2109	551-5313	372-7098
320-2110	551-5412	372-7097
320-2111	551-5323	372-7096
320-2114	551-5412	392-9096
320-2115	551-5356	392-9020, 392-9066, 392-9132
320-2116	551-5317	382-8047
320-2118	551-5321	372-7095
320-2129	551-5393	392-9094
320-2131	551-5363	392-9092
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
320-2199	551-5344	382-8056
320-2213	551-5364	392-9112, 392-9130
320-2216	551-5403	382-8071

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® XR NUMBER

VOYAGER®/ DISCOVER® XR	HUB TOOL
373-0113	551-5313
373-0123 373-0423	551-5401
373-0143 373-0443	551-5412
373-0144	551-5339
383-0101	551-5420
383-0136 383-0436	551-5346

VOYAGER®/ DISCOVER® XR	HUB TOOL
383-0139	551-5413
383-0156	551-5344
383-0164 383-0464	551-5327
383-0166	551-5423
383-0171	551-5403
393-0103	551-5415

VOYAGER®/ DISCOVER® XR	HUB TOOL
393-0104	551-5414
393-0112	551-5416
393-0134	551-5421
393-0148	551-5400
393-0173 393-0473	551-5320
320-2058	551-5303

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

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

FLEET HUB TOOLS

FLEET HUB TOOLS BY TOOL HEAD NUMBER

TOOL NO.	SEAL NO.
551-5302	320-2056
551-5303	320-2058
551-5308	320-2072
551-5311	320-2086
551-5312	320-2091
551-5313	373-0113 320-2109
551-5317	320-2059 320-2099 320-2116
551-5318	320-2102
551-5320	320-2106 393-0173 393-0473
551-5321	320-2118
551-5323	320-2111
551-5325	320-2117
551-5327	320-2137 383-0164 383-0464
551-5333	320-2162

TOOL NO.	SEAL NO.
551-5339	373-0144
551-5344	320-2199 383-0156
551-5346	320-2036 383-0136 383-0436
551-5347	320-2050
551-5349	320-2181
551-5351	320-2018 320-2105
551-5353	320-2057 320-2119 320-2133
551-5356	320-2009 320-2061 320-2115
551-5362	320-2077
551-5363	320-2131
551-5364	320-2213 393-0104
551-5366	320-2164

TOOL NO.	SEAL NO.
551-5381	320-2022 320-2136
551-5383	320-2104
551-5385 551-5386	320-2028 320-2029
551-5387	320-2034
551-5388	320-2031 320-2032 320-2046 320-2125
551-5393	320-2129
551-5395	320-2039
551-5398	320-2001 320-2041
551-5400	320-2097 393-0148
551-5401	320-2023 320-2173 373-0123 373-0423

TOOL NO.	SEAL NO.
551-5403	320-2216 383-0171
551-5404	320-2233
551-5405	320-2012
551-5412	320-2110 320-2113 320-2114 373-0143 373-0443
551-5413	383-0139
551-5414	393-0104
551-5415	393-0103
551-5416	393-0112
551-5420	383-0101
551-5421	393-0134
551-5423	383-0166

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.
387AS	570-0017
495AX	570-0022
555S	570-0017
557A	570-0018
559	570-0019
575	570-0022
580	570-0023
582	570-0023
593	570-0025
594	570-0028
594A	570-0028
595	570-0023
598	570-0027
598A	570-0027
623	570-0017
639	570-0019

BEARING NO.	GUIDE NO.
641	570-0020
663	570-0023
663A	570-0023
665	570-0024
665A	570-0024
681A	570-0027
683	570-0028
683XA	570-0028
687	570-0032
748S	570-0022
749A	570-0023
758	570-0024
759	570-0025
760	570-0026
843	570-0022
3982	570-0019

BEARING NO.	GUIDE NO.
3984	570-0020
3994	570-0020
5584	570-0019
5760	570-0022
6386	570-0020
6386A	570-0020
6389	570-0020
6461	570-0022
6461A	570-0022
6559	570-0023
6580	570-0025
33212	570-0031
33281	570-0021
39250	570-0019
39581	570-0017
30585	570-0019

BEARING NO.	GUIDE NO.
42687	570-0022
42688	570-0022
47678	570-0022
47685	570-0023
47686	570-0023
188931	570-0017
7451929	570-0017
H715345	570-0021
HM212044	570-0018
HM212046	570-0019
HM212047	570-0019
HM212049	570-0020
HM212049X	570-0020
HM218248	570-0026
HM516449,-A,-C	570-0023
HM518445	570-0025
JM205149A	570-0033
JM207049A	570-0036

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.
Grease Template Fill Tool	102-5015

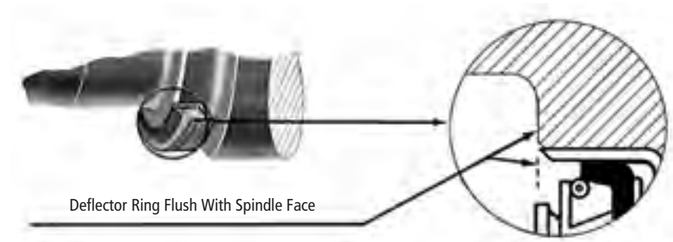
HEAVY DUTY AXLE TOOLS

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
308-0836 [1]	HM212044	3782	552-5206
	557A	3782	552-5206
	HM212049,-X	3782	552-5288
	HM212047	3782	552-5230
308-0853	H715345	3979	552-5223
308-0864 [1]	6461A	555S	552-5220
		3979	552-5220
309-0903 [1]	580	567	552-5221
	582	567	552-5221

GUARDIAN® SEAL	INNER CONE	OUTER CONE	TOOL NUMBER
309-0904 [1]	663	575	552-5226
	HM516449-C	47679	552-5226
309-0912	47685	39590	552-5359
	47686	39590	552-5359
309-0961	580	42687	552-5221
	582	42687	552-5221
	663A	42687	552-5221
309-0973 [1]	598A	580	552-5214
	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



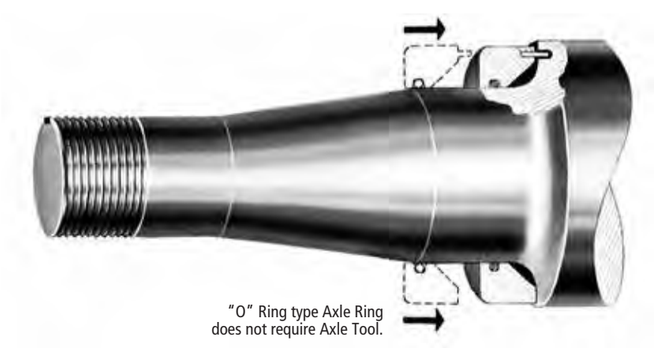
HEAVY DUTY AXLE TOOLS

HEAVY DUTY AXLE TOOLS BY AXLE/DEFLECTOR RING NUMBER

AXLE RING/ DEFLECTOR RING	SET NUMBER	INNER CONE	OUTER CONE	TOOL NUMBER
310-1012	392-9012	47686	39590	552-5359
310-1034	382-8071	HM212047	3779, 45282	552-5230
310-1036	382-8036	HM212044 HM212047 HM212049,-X	3782	552-5206 552-5230 552-5288
310-1037	382-8064	6461A	555S, 3979	552-5220
310-1043	372-7015	759	740	
310-1064	372-7049	JM511946	JM205149	552-5273
310-1093	382-8056	H715345	28682, 555S	552-5223
310-1130	372-7062	593	65390 HH506348	552-5239
315-1501	392-9099	47685, 47686	39590	552-5359
315-1502	392-9087	681A	580	552-5214
		683	580	552-5216
	392-9132	681A	575	552-5215
		598A	582	552-5214
		598	575	552-5215
	392-9131	594, 594A	580	552-5216
		598A	580	552-5214

AXLE RING/ DEFLECTOR RING	SET NUMBER	INNER CONE	OUTER CONE	TOOL NUMBER
315-1503	372-7099	HM518445	HM518445	552-5239
315-1504	372-7097	HM218248	HM212049	552-5236
315-1506	372-7096	787	6580	
315-1507	372-7098	663	HM212049	552-5359
315-1508	392-9096	598	575	552-5215
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
315-1525	392-9131	598	575	552-5215
		594, 594A	580	552-5216
		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.



HEAVY DUTY AXLE TOOLS

HEAVY DUTY AXLE TOOLS BY TOOL NUMBER

TOOL NUMBER	INNER CONE	OUTER CONE	DEFLECTOR RING
552-5214	598A, 681A	580, 582, 575	309-0973 315-1502 315-1525 315-1530
552-5215	598, 598A, 681A	575	309-0973 315-1502 315-1508 315-1525 315-1530
552-5216	594A, 594, 683, -XA	HM516449, 580, 560, 582, 575	309-0973 310-1093 315-1502 315-1517 315-1525
552-5220	6461A	555S,3979	308-0864
552-5221	580, 582	567, 575	309-0903 310-1053 315-1511
552-5223	H715345	3979, 28682	308-0853 308-0855 309-0903 310-1093

TOOL NUMBER	INNER CONE	OUTER CONE	DEFLECTOR RING
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
552-5359	663, 47685, 47686	560, HM212049, 39590	307-0713 309-0912 310-1012 310-1013 310-1057 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.
HUB SEAL	570-7032
AXLE	570-7033

GET PEACE OF MIND WITH AXLE FASTENERS THAT MEET YOUR NEEDS

Combining precision and ease of installation, STEMCO's lineup of axle fasteners give fleet managers options to meet their specific needs when it comes to securing wheel ends and preventing backoff. With increments down to 0.001", Pro-Torq® fasteners deliver precise bearing adjustments to maximize radial tire life and minimize component wear. Zip-Torq® takes the guesswork out of bearing adjustment with its robust single piece design, while Auto-Torq®, which securely applies the optimum clamp load on the bearings every time, is an all-in-one solution that's compatible with any industry hub manufacturer.

Auto-Torq Axle Fastener

Safe, secure and simple, Auto-Torq requires no torque wrench to set the wheel end in optimum bearing adjustment for maximum life.

- Eliminates complex processes and specialty tools required with current market axle fasteners
- Sets optimum bearing adjustment automatically
- Quicker install time with peace of mind that installation is done correctly

TRUCK/TRAILER	AXLE APPLICATIONS	PRO-TORQ® P/N	REPLACEMENT KEEPER P/N	THREAD SIZE	OUTER BEARING CONE / CUP
Trailer	Trailer (P)	447-4723	450-4723 (Tang)	3.480"-12	HM518445 / HM518410
Trailer	Trailer (N)	447-4743	450-4743 (Tang)	2 5/8"-16	HM212049 / HM212011
Truck	Steer (FF)	448-4836	450-4836 (D-Flat)	1 1/2" - 12	3782 / 3720
Truck	Steer (FF)	448-4837	450-4837 (Tang)	1 1/2" - 18	3782 / 3720
Truck	Steer (Mack)	448-4864	450-4864 (Tang)	2" - 12	552A / 555S
Truck	Truck (FL)	448-4865	450-4865 (Tang)	1 3/4" - 12	552A / 555S 3979 / 3720
Truck	Drive (R)	449-4973	450-4973 (Tang)	3 1/4" - 12	580 / 572
Truck	Drive (Mack)	449-4904	450-4904 (Tang)	2 7/8" - 12	563 / 567, 572 / 575, 47620 / 47679
Truck	Drive (Ford)	449-4974	450-4743 (Tang) (fits 3/8" keyway)	2 5/8"-16	3984 / 3920, 39590 / 39520
Truck	Drive (School Bus)	449-4975	450-4975 (Tang)	2 5/8"-12	3984 / 3920, 39590 / 39520

AXLE FASTENER INTERCHANGE

Zip-Torq® Axle Fastener

This robust single piece spindle nut uses a patented self-locking ratchet system to secure the wheel end and prevent back off.

- Allows installation without special tooling. No clips, keepers, snap rings, or screws to install
- Integrated locking system prevents backoff
- Bearing contact surface is induction hardened for superior wear resistance

Pro-Torq® Axle Fastener

With back off increments down to 0.001 inch, Pro-Torq minimizes wheel-bearing adjustment variability, providing extended maintenance intervals and trouble-free performance.

- Controls axial motion, holding bearing end play near zero for longer tread life.
- Gives fleets the tightest adjustment standard in the industry
- One-nut design eliminates potential for overtightening

PRO-TORQ® TOOL SOCKET	ZIP-TORQ® P/N	ZIP-TORQ® TOOL SOCKET	AUTO-TORQ® P/N	AUTO-TORQ® TOOL SOCKET
120mm - 8 point OTC#1961M or 4 13/16"- 8 point OTC#1941	400-4723	4 1/8" - 6 point OTC#1915	480-4723-XR 480-4723-GG 480-4723-GHP 480-4723-VOY	120mm - 8 point OTC#196M
3 3/4"- 8 point OTC #1925	400-4743	3 1/4" - 6 point OTC#1908	480-4743-XR 480-4743-GG 480-4743-GHP 480-4743-VOY	3 7/8" - 8 point OTC#1913
2 1/2" - 6 point OTC#1921	400-4836	2 1/8" - 6 point OTC#1976		
2 1/2" - 6 point OTC#1921	400-4837	2 1/8" - 6 point OTC#1976		
3" - 6 point OTC#1906	400-4864	2 7/8" - 6 point OTC#1932		
3" - 6 point OTC#1906	400-4865	2 7/8" - 6 point OTC#1932		
4 3/8" - 8 point OTC#1917	400-4973	4" - 6 point OTC#1914		
4 /1/8" - 6 point OTC#1915	400-4904	3 1/2" - 6 point OTC#1910		
3 3/4"- 8 point OTC#1925				
3 3/4"- 8 point OTC#1925				

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
01005503	Dexter		**372-7097**	**307-0743**	**373-0143**	**373-0443**
02000655	Timpte	**330-3009**				
02009111	Timpte		**372-7097**	**307-0743**	**373-0143**	**373-0443**
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**	**393-0473**
027125816	GMC/Volvo		**392-9131**	**309-0973**	**393-0173**	**393-0473**
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**	**383-0436**
100858401	Eaton		**382-8036**	**308-0836**	**383-0136**	**383-0436**
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**				

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
119431	Eaton	**460-6001**				
119457	Eaton	**460-6002**				
1199J2428	Meritor		**392-9087**			
1199R2722	Meritor	**310-1018**				
1199V1296	Meritor	**310-1012/1091**				
1199Z3094	Meritor	**315-1504**				
1199Z3146	Meritor		**392-9087**			
1207	C/R		**392-9096**			
1208	C/R		**392-9132**			
1211	C/R		**392-9131**	**309-0973**	**393-0173**	**393-0473**
1213	C/R		**392-9087**			
1214	C/R		**392-9099**	**309-0912**	**393-0112**	
1215	C/R		**392-9131**	**309-0973**	**393-0173**	**393-0473**
1216	C/R		**392-9087**			
121SR19	Mack	**330-3009**				
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**				
1244U879	Meritor	**310-1089**				
127043	Eaton	**320-2106**				
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**				
1307	C/R			**309-0935**		
1308	C/R		**392-9099**	**309-0912**	**393-0112**	
1311	C/R	**349-4024**				
1343	C/R	**349-4009**				

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CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
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**	**383-0436**
1436900007	Westport		**372-7097**	**307-0743**	**373-0143**	**373-0443**
150012	Ceromet	**448-4836**				
150018	Ceromet	**448-4837**				
15507089	GMC		**382-8064**	**308-0864**	**383-0164**	**383-0464**
15511620	GMC/Volvo	**359-5970**				
15519908	GMC/Volvo		**382-8071**		**383-0171**	
15527755	GMC/Volvo			**308-0863**		
15527780	GMC/Volvo			**308-0853**		
15534441	GMC/Volvo	**359-5968**				
1554331C1	Navistar		**382-8036**	**308-0836**	**383-0136**	**383-0436**
15550869	GMC/Volvo		**392-9131**	**309-0973**	**393-0173**	
15556130	GMC/Volvo	**343-4249**				
15556131	GMC/Volvo	**330-3122**				
15557677	GMC/Volvo		**392-9131**	**309-0973**	**393-0173**	**393-0473**
15557678	GMC/Volvo		**392-9099**	**309-0912**	**393-0112**	
15587578	GMC/Volvo	**340-4263**				
15587579	GMC/Volvo	**340-4263**				
15663537	GMC/Volvo		**382-8036**	**308-0836**	**383-0136**	**383-0436**
15679880	GMC/Volvo		**392-9131**	**309-0973**	**393-0173**	**393-0473**
15679881	GMC/Volvo		**392-9099**	**309-0912**	**393-0112**	
15687419	GMC/Volvo		**382-8064**	**308-0864**	**383-0164**	**383-0464**
15703555	GMC/Volvo		**392-9099**	**309-0912**	**393-0112**	
15844467	GMC/Volvo			**308-0870**		
15965962	GMC/Volvo	**310-1018**				
15982869	GMC/Volvo		**392-9131**	**309-0973**	**393-0173**	**393-0473**
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**	**383-0436**
1612	C/R	**343-4024**				
1612823C1	Navistar				**383-0156**	
1612877C91	Navistar		**382-8064**	**308-0864**	**383-0164**	**383-0464**
1613	C/R	**343-4249**				
1615304C1	Navistar		**382-8036**	**308-0836**	**383-0136**	**383-0436**
1615305C1	Navistar		**392-9131**	**309-0973**	**393-0173**	**393-0473**
1630	C/R	**343-4014**				
1642	C/R	**343-4013**				
1643	C/R	**343-4009**				

CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
1643	C/R	**343-4249**				
1644	C/R	**343-4009**				
1649628C1	Navistar		**372-7097**	**307-0743**	**373-0143**	**373-0443**
1654330C1	Navistar		**392-9099**	**309-0912**	**393-0112**	
1654331C1	Navistar		**382-8036**	**308-0836**	**383-0136**	**383-0436**
1655102C1	Navistar				**383-0156**	
1657081C91	Navistar	**343-4249**				
1659759C91	Navistar		**382-8066**	**308-0866**	**383-0166**	
1660994C1	Navistar		**382-8064**	**308-0864**	**383-0164**	**383-0464**
166437R91	Navistar		**392-9099**	**309-0912**	**393-0112**	
1670	C/R	**343-4072**				
1680802C1	Navistar		**392-9131**	**309-0973**	**393-0173**	**393-0473**
1682	C/R	**343-4075**				
1688203C1	Navistar		**382-8036**	**308-0836**	**383-0136**	**383-0436**
1691	C/R	**340-4098**				
16911843C91	Navistar		**382-8036**	**308-0836**	**383-0136**	**383-0436**
1696	C/R	**343-4195**				
1698	C/R	**340-4080**				
1698	C/R	**343-4164**				
1703	C/R	**343-4249**				
1711	C/R	**343-4024**				
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**				
1788	C/R	**343-4249**				
1790	C/R	**343-4098**				
1800	C/R	**347-4009**				
1803	C/R	**343-4149**				
1808	C/R	**343-4065**				
1811	C/R	**343-4024**				
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**				
1890	C/R	**343-4249**				
19186	Eaton	**447-4743**				
19QJ29302A	Mack	**343-4024/4308**				
19QJ29304	Mack	**343-4095**				
19QJ29304A	Mack	**343-4095/4309**				
19QJ313	Mack	**343-4009**				
19QJ318	Mack	**343-4098**				
19QJ319	Mack	**343-4249**				
19QJ324	Mack	**343-4095**				

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CROSS REFERENCE

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
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**				
203452	Manac	**330-3009/3067**				
203453	Manac	**343-4009**				
203467	Manac	**315-1504**				
203470	Manac	**320-2110**				
2037474C1	Navistar	**448-4837**				
2045996	GMC/Volvo				**383-0101**	
2056780	GMC/Volvo	**359-5991**				
2059246	GMC/Volvo	**359-5995**				
2078026	GMC/Volvo		**392-9132**			
2079222	GMC/Volvo	**359-5990**				
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**				
2245A27	Meritor	**310-1089**				
2297M6981	Meritor	**315-1525**				
2302130	GMC/Volvo	**310-1123**				
2317614	GMC/Volvo		**392-9131**	**309-0973**	**393-0173**	**393-0473**
240694R1	Navistar	**359-6032**				
2413360	GMC/Volvo		**392-9053**			
2455044	GMC/Volvo	**330-3009**				
2455093	GMC/Volvo	**330-3041**				
2455943	GMC/Volvo	**320-2017**				
2455944	GMC/Volvo	**310-1017**				
2456739	GMC/Volvo	**310-1079**				
2485338	GMC/Volvo	**310-1018**				
2498220	GMC/Volvo		**382-8064**	**308-0864**	**383-0164**	**383-0464**
2501559C1	Navistar	**449-4974**				
254032C91	Navistar		**392-9053**			
26209	C/R	**429-0004**				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
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**				
26762	C/R	**429-0004**				
2708026	GMC/Volvo		**392-9132**			
27295	C/R	**429-0008**				
2757682	GMC/Volvo		**392-9096**			
278616C91	Navistar	**320-2117**				
280886C91	Navistar		**392-9099**	**309-0912**	**393-0112**	
283109C1	Navistar	**359-5995**				
283110C1	Navistar	**359-5990**				
283111C1	Navistar	**359-5997**				
283112C1	Navistar	**359-5992**				
283113C1	Navistar	**359-5996**				
283114C1	Navistar	**359-5991**				
28745	C/R		**382-8066**	**308-0866**	**383-0166**	
28758	C/R		**382-8066**	**308-0866**	**383-0166**	
296393C91	Navistar		**382-8036**	**308-0836**	**383-0136**	**383-0436**
296436C1	Navistar	**330-3036**				
296438C91	Navistar		**372-7099**	**307-0713**	**373-0113**	
29QJ127	Mack	**310-1041**				
29QJ210	Mack	**310-1051**				
29QJ222	Mack	**315-1516**				
29QJ230	Mack	**310-1089**				
29QJ233	Mack	**310-1079**				
301	NOK		**372-7098**	**307-0713**	**373-0113**	
301401	Pioneer Weston		**372-7098**	**307-0713**	**373-0113**	
302	NOK		**372-7099**	**307-0723**	**373-0123**	**373-0423**
302200	Pioneer Weston		**372-7099**	**307-0723**	**373-0123**	**373-0423**
302402	Pioneer Weston		**372-7099**	**307-0723**	**373-0123**	**373-0423**
303	NOK		**372-7097**	**307-0743**	**373-0143**	**373-0443**
303100	Pioneer Weston		**372-7097**	**307-0743**	**373-0143**	**373-0443**
303403	Pioneer Weston		**372-7097**	**307-0743**	**373-0143**	**373-0443**
304	NOK		**392-9131**	**309-0973**	**393-0173**	**393-0473**
304404	Pioneer Weston		**372-7095**	**307-0744**	**373-0144**	
305	NOK		**382-8036**	**308-0836**	**383-0136**	**383-0436**
305387C1	Navistar	**310-1089**				
305405	Pioneer Weston		**392-9094**	**309-0903**		
306	NOK		**392-9099**	**309-0912**	**393-0112**	
306408	Pioneer Weston		**392-9087**			
307408	Pioneer Weston		**392-9131**	**309-0973**	**393-0173**	**393-0473**
308	NOK		**392-9132**			
308408	Pioneer Weston		**392-9132**			
309409	Pioneer Weston		**392-9099**	**309-0912**	**393-0112**	

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
30QJ256	Mack	**315-1511**				
30QJ258	Mack	**315-1515**				
311411	Pioneer Weston		**392-9096**			
312100	Pioneer Weston		**382-8036**	**308-0836**	**383-0136**	**383-0436**
31244	C/R	**320-2022**				
31266	C/R	**320-2125**				
31281	C/R		**372-7049**			
3130997908	Bluebird		**382-8036**	**308-0836**	**383-0136**	**383-0436**
315100	Pioneer Weston		**382-8064**	**308-0864**	**383-0164**	**383-0464**
317100	Pioneer Weston				**383-0156**	
31927	Eaton	**449-4973**				
3208J1076	Meritor	**330-3041**				
32385	C/R	**429-0007**				
32397	C/R	**429-0007**				
32410	C/R	**460-6011**				
325012	Ceromet	**449-4973**				
32870	C/R	**429-0011**				
32QJ112B	Mack		**392-9092**			
32QJ127A	Mack		**392-9131**	**309-0973**	**393-0173**	**393-0473**
32QJ131A	Mack		**382-8064**	**308-0864**	**383-0164**	**383-0464**
32QJ179	Mack	**320-2106**				
32QJ228	Mack	**320-2009**				
32QJ235	Mack	**320-2023**				
32QJ237	Mack	**320-2106**				
32QJ240	Mack	**320-2097**				
32QJ241	Mack	**320-2129**				
32QJ243	Mack	**320-2213**				
32QJ245	Mack	**320-2137**				
32QJ248	Mack				**383-0139**	
32QJ249	Mack	**320-2118**				
32QJ251	Mack	**320-2099**				
32QJ252	Mack		**382-8064**	**308-0864**	**383-0164**	**383-0464**
32QJ260	Mack	**320-2001**				
32QJ262	Mack				**383-0139**	
32QJ263	Mack		**392-9094**	**309-0903**	**393-0103**	
32QJ267	Mack		**392-9131**	**309-0973**	**393-0173**	**393-0473**
32QJ268	Mack		**392-9094**	**309-0903**	**393-0103**	
32QJ269	Mack		**382-8036**	**308-0836**	**383-0136**	**383-0436**
32QJ270	Mack		**382-8064**	**308-0864**	**383-0164**	**383-0464**
32QJ271	Mack		**392-9112**	**309-0904**	**393-0104**	
32QJ276	Mack		**392-9089**	**309-0948**	**393-0148**	
32QJ29315	Mack		**382-8036**	**308-0836**	**383-0136**	**383-0436**
32QJ29316	Mack		**392-9131**	**309-0973**	**393-0173**	**393-0473**
32QJ29318	Mack		**392-9094**	**309-0904**	**393-0104**	
32QJ29320	Mack		**382-8064**	**308-0864**	**383-0164**	**383-0464**
330783408	Western Star		**392-9131**	**309-0973**	**393-0173**	**393-0473**
331471C91	Navistar	**320-2102**				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
33254	C/R	**429-0011**				
33751	C/R	**429-0014**				
337711C92	Navistar		**392-9099**	**309-0912**	**393-0112**	
338877R91	Navistar		**392-9036**			
34090	Eaton	**447-4743**				
340929C91	Navistar		**392-9036**			
341SR38	Mack	**310-1007**				
34383	C/R			**309-0935**		
34384	C/R PlusXL			**309-0935**		
34385	C/R			**309-0935**		
34386	C/R			**309-0935**		
34387	C/R Classic			**309-0935**		
348012	Ceromet	**447-4723**				
348012E	Ceromet	**447-4724**				
34882	C/R	**429-0002**				
34885	C/R			**308-0863**		
34891	C/R	**429-0002**				
34971	C/R PlusXL			**308-0863**		
34972	C/R			**308-0863**		
34975	C/R Classic			**308-0863**		
34980	C/R			**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**	**383-0436**
35059	C/R		**382-8036**	**308-0836**	**383-0136**	**383-0436**
35060	C/R		**382-8035**			
35062	C/R		**382-8036**	**308-0836**	**383-0136**	**383-0436**
35066	C/R Classic		**382-8036**	**308-0836**	**383-0136**	**383-0436**
35072	C/R	*Same as 35066 used for worn hubs or oversize seal bore*				
35075	C/R		**372-7006**			
35093	C/R		**372-7006**			
35102	C/R		**382-8036**	**308-0836**	**383-0136**	**383-0436**
35103	C/R LongLife		**382-8036**	**308-0836**	**383-0136**	**383-0436**
357	National	**330-3077**				
35810	C/R			**309-0935**		
359922C91	Navistar		**382-8064**	**308-0864**	**383-0164**	**383-0464**
36314	C/R		**392-9037**			
36357	C/R		**382-8071**		**383-0171**	
36358	C/R Classic		**382-8071**		**383-0171**	
36365	C/R Classic		**382-8071**		**383-0171**	
36378	C/R		**372-7006**			
364SZ100	Mack		**382-8036**	**308-0836**	**383-0136**	**383-0436**
364SZ202	Mack		**392-9131**	**309-0973**	**393-0173**	**393-0473**

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
364SZ206	Mack		**382-8036**	**308-0836**	**383-0136**	**383-0436**
36506	Eaton		**392-9099**	**309-0912**	**393-0112**	
370001A	National		**382-8036**	**308-0836**	**383-0136**	**383-0436**
370002A	National		**372-7006**			
370003A	National		**392-9131**	**309-0973**	**393-0173**	**393-0473**
370004A	National		**392-9001**			
370005A	National		**392-9132**			
370006A	National		**392-9087**			
370011A	National		**382-8071**		**383-0171**	
370014A	National		**372-7049**			
370019A	National		**392-9092**			
370022A	National		**392-9094**	**309-0903**	**393-0103**	
370023A	National		**392-9099**	**309-0912**	**393-0112**	
370024A	National		**392-9099**			
370025A	National		**372-7097**	**307-0743**	**373-0143**	**373-0443**
370026A	National		**372-7022**			
370031A	National		**392-9112**	**309-0904**	**393-0104**	
370033A	National				**383-0139**	
370034A	National		**392-9131**	**309-0973**	**393-0173**	**393-0473**
370036A	National		**372-7098**	**307-0713**	**373-0113**	
370037A	National		**372-7095**	**307-0744**	**373-0144**	
370047A	National			**309-0935**		
370048A	National		**382-8064**	**308-0864**	**383-0164**	**383-0464**
370065A	National		**372-7099**	**307-0723**	**373-0123**	**373-0423**
370120A	National		**392-9053**			
370124A	National			**308-0853**		
370132A	National			**308-0863**		
370150A	National		**382-8066**	**308-0866**	**383-0166**	
370165A	National		**392-9099**	**309-0912/0915**		
370169A	National		**392-9036**			
370181A	National		**392-9132**			
370182A	National		**382-8064**	**308-0864**	**383-0164**	**383-0464**
370192A	National		**372-7015**			
370195A	National				**393-0134**	
370198A	National				**383-0139**	
370338A	National		**372-7095**	**307-0744**	**373-0144**	
370349A	National		**372-7098**	**307-0713**	**373-0113**	
376590A	National		**372-7099**	**307-0723**	**373-0123**	**373-0423**
380001A	National		**382-8036**	**308-0836**	**383-0136**	**383-0436**
380003A	National		**392-9131**	**309-0973**	**393-0173**	**393-0473**
380019C91	Navistar		**392-9099**	**309-0912**	**393-0112**	
380022A	National		**392-9094**	**309-0903**	**393-0103**	
380023A	National		**392-9099**	**309-0912**	**393-0112**	
380025A	National		**372-7097**	**307-0743**	**373-0143**	**373-0443**
380031A	National		**392-9112** [1]	**309-0904**	**393-0104**	
380036A	National		**372-7098**	**307-0713**	**373-0113**	
380048A	National		**382-8064**	**308-0864**	**383-0164**	**383-0464**

[1] When using HM516449A, use 392-9130 set.

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
380065A	National		**372-7099**	**307-0723**	**373-0123**	**373-0423**
380131A	National				**383-0156**	
3827712	Dodge			**308-0863**		
383706C91	Navistar		**392-9001**			
383727C1	Navistar	**330-3040**				
383728C1	Navistar	**330-3056**				
383733C1	Navistar	**330-3001**				
386590A	National		**372-7099**	**307-0723**	**373-0123**	**373-0423**
38745	C/R		**392-9099**	**309-0912**	**393-0112**	
38747	C/R		**392-9099**	**309-0912**	**393-0112**	
38748	C/R		**392-9099**			
38750	C/R Classic		**392-9099**			
38774	C/R		**392-9099**	**309-0912**	**393-0112**	
38776	C/R PlusXL		**392-9099**	**309-0912**	**393-0112**	
38777	C/R		**392-9099**	**309-0912**	**393-0112**	
38778	C/R		**392-9099**	**309-0912**	**393-0112**	
38779	C/R		**392-9099**	**309-0912**	**393-0112**	
38780	C/R Classic		**392-9099**	**309-0912**	**393-0112**	
38782	C/R		**392-9099**	**309-0912**	**393-0112**	
38783	C/R LongLife		**392-9099**	**309-0912**	**393-0112**	
388250C91	Navistar	**343-4025**				
39380	C/R		**382-8029**			
39381	C/R				**383-0139**	
3941956	Volvo		**392-9131**	**309-0973**	**393-0173**	**393-0473**
3942006	Volvo		**382-8036**	**308-0836**	**383-0136**	**383-0436**
39426	C/R		**308-0870**	**308-0870**		
39448886	GMC/Volvo	**320-2050**				
3948884	GMC/Volvo	**310-1052**				
394894C91	Navistar		**382-8036**	**308-0836**	**383-0136**	**383-0436**
396526C91	Navistar		**392-9096**			
398124C1	Navistar	**310-1089**				
39975	C/R				**383-0139**	
39977	C/R				**383-0139**	
39979	C/R PlusXL				**383-0139**	
39980	C/R				**383-0139**	
39981	C/R				**383-0139**	
39988	C/R Classic				**383-0139**	
39990	C/R				**383-0139**	
3W5687	Caterpillar	**343-4009**				
3W6998	Caterpillar	**330-3009**				
4000531R91	Navistar	**460-6011**				
40049	C/R				**383-0139**	
40051	C/R				**383-0139**	
40052	C/R				**383-0139**	
40077	C/R				**383-0101**	
40078	C/R				**383-0101**	
40080	C/R				**383-0101**	

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
40082	C/R				**383-0101**	
40086	C/R Classic				**383-0101**	
40088	C/R				**383-0101**	
40090	C/R LongLife				**383-0101**	
40091	C/R PlusXL				**383-0101**	
401265	Mechanex/Barrier	**330-3077**				
40129	C/R PlusXL		**372-7098**	**307-0713**	**373-0113**	
40130	C/R		**372-7098**	**307-0713**	**373-0113**	
40133	C/R		**372-7098**	**307-0713**	**373-0113**	
40136	C/R Classic		**372-7098**	**307-0713**	**373-0113**	
40146	C/R		**372-7098**	**307-0713**	**373-0113**	
40147	C/R LongLife		**372-7098**	**307-0713**	**373-0113**	
401503	Mechanex/Barrier	**330-3002**				
401504	Mechanex/Barrier	**330-3024**				
401507	Mechanex/Barrier	**330-3041**				
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**	**393-0112**	
40360	C/R		**392-9099**	**309-0912**	**393-0112**	
405367C91	Navistar	**460-6004**				
411601P	Midland	**343-4009**				
411604P	Midland	**343-4008**				
411605P	Midland	**343-4095**				
411605P	Midland	**343-4098**				
411605P	Midland	**343-4249**				
411608P	Midland	**343-4013**				
411625P	Midland	**343-4018**				
411630P	Midland	**343-4024**				
411635P	Midland	**343-4065**				
411646P	Midland	**343-4025**				
411655P	Midland	**343-4075**				
411688P	Midland	**343-4095**				
411845P	Midland	**343-4149**				
411917P	Midland	**340-4119**				
411967P	Midland	**343-4046**				
4131005	Trailmobile	**330-3009**				
4131008	Trailmobile	**330-3013**				
4131012	Trailmobile	**330-3019**				
4131013	Trailmobile	**330-3024**				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
4131018	Trailmobile	**330-3077**				
4131024	Trailmobile	**330-3104**				
4131025	Trailmobile	**330-3067**				
4131026	Trailmobile	**330-3118**				
4131027	Trailmobile	**330-3122**				
4131056	Trailmobile	**330-3056**				
4131096	Trailmobile	**343-4095**				
4131097	Trailmobile	**343-4195**				
4131100	Trailmobile	**343-4009**				
4131103	Trailmobile	**343-4013**				
4131115	Trailmobile	**343-4075**				
4131122	Trailmobile	**359-5981**				
4131123	Trailmobile	**359-5990**				
4131124	Trailmobile	**343-4249**				
4131128	Trailmobile	**343-4009**				
4131135	Trailmobile		**372-7098**	**307-0713**	**373-0113**	
4131144	Trailmobile		**372-7099**	**307-0723**	**373-0123**	**373-0423**
4131145	Trailmobile		**372-7091**			
4131150	Trailmobile		**372-7097**	**307-0743**	**373-0143**	**373-0443**
4131151	Trailmobile		**372-7095**	**307-0744**	**373-0144**	
4131159	Trailmobile		**372-7091**			
4131160	Trailmobile		**372-7095**	**307-0744**	**373-0144**	
4131162	Trailmobile		**372-7097**	**307-0743**	**373-0143**	**373-0443**
4131163	Trailmobile		**372-7098**	**307-0713**	**373-0113**	
4131164	Trailmobile		**372-7099**	**307-0723**	**373-0123**	**373-0423**
4131167	Trailmobile		**392-9132**			
4131169	Trailmobile		**392-9132**			
4131170	Trailmobile		**392-9131**	**309-0973**	**393-0173**	**393-0473**
4131171	Trailmobile		**392-9131**	**309-0973**	**393-0173**	**393-0473**
4131173	Trailmobile		**392-9099**	**309-0912**	**393-0112**	
4131188	Trailmobile		**392-9087**			
4131189	Trailmobile		**392-9087**			
4131191	Trailmobile		**392-9012**	**309-0912**	**393-0112**	
4131192	Trailmobile		**392-9099**	**309-0912**	**393-0112**	
4131194	Trailmobile		**392-9094**	**309-0903**		
4131197	Trailmobile		**392-9112**	**309-0904**		
4131204	Trailmobile		**382-8064**	**308-0864**		
4131210	Trailmobile		**372-7098**	**307-0713**	**373-0113**	
4131211	Trailmobile		**372-7099**	**307-0723**	**373-0123**	**373-0423**
4131212	Trailmobile		**372-7097**	**307-0743**	**373-0143**	**373-0443**
4131213	Trailmobile		**372-7095**	**307-0744**	**373-0144**	
4131214	Trailmobile		**382-8036**	**308-0836**	**383-0136**	**383-0436**
4131215	Trailmobile				**383-0156**	
4131216	Trailmobile		**382-8064**	**308-0864**	**383-0164**	**383-0464**
4131220	Trailmobile		**382-8036**	**308-0836**	**383-0136**	**383-0436**
4131224	Trailmobile		**392-9087**			
4131225	Trailmobile		**392-9112**	**309-0904**	**393-0104**	

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
4131226	Trailmobile		392-9131	309-0973	393-0173	393-0473
4131227	Trailmobile		392-9132			
4131229	Trailmobile		392-9112	309-0904	393-0104	
4131230	Trailmobile		392-9132			
4131231	Trailmobile		392-9131	309-0973	393-0173	393-0473
4131234	Trailmobile		372-7098	307-0713	373-0113	
4131235	Trailmobile		372-7097	307-0743	373-0143	373-0443
4131236	Trailmobile		372-7099	307-0723	373-0123	373-0423
4131243	Trailmobile	359-5915				
4131244	Trailmobile	359-5995				
4131249	Trailmobile		382-8036	308-0836	383-0136	383-0436
4131250	Trailmobile				383-0156	
4131251	Trailmobile		382-8064	308-0864	383-0164	383-0464
414467C91	Navistar		372-7095	307-0744	373-0144	
414467C93	Navistar	320-2118				
415058	National		392-9112	309-0904	393-0104	
415060	National		392-9096			
415371	National		392-9094	309-0903	393-0103	
416125	National		382-8071			
417158	National		382-8066	308-0866	383-0166	
417505	National		392-9099	309-0912	393-0112	
417530	National			308-0853		
417531	National				383-0156	
42478	Great Dane		372-7097	307-0743	373-0143	373-0443
42525	Great Dane		372-7099	307-0723	373-0123	373-0423
42622	C/R		372-7062			
42622	C/R		372-7099	307-0723	373-0123	373-0423
42623	C/R		372-7062			
42623	C/R Classic		372-7099	307-0723	373-0123	373-0423
42624	C/R		372-7091			
42625	C/R	*Same as 42623 used for worn hubs or oversize seal bore*				
42627	C/R PlusXL		372-7099	307-0723	373-0123	373-0423
42630	C/R		372-7099	307-0723	373-0113	
42631	C/R LongLife		372-7099	307-0723	373-0123	373-0423
42644	C/R		392-9112	309-0904	393-0104	
42650	C/R		392-9112	309-0904	393-0104	
42671	C/R		392-9112	309-0904	393-0104	
42672	C/R Classic		392-9112	309-0904	393-0104	
42673	C/R PlusXL		392-9112	309-0904	393-0104	
426834C1	Navistar	343-4065				
428119C91	Navistar	320-2102				
428455C91	Navistar	320-2106				
431616R92	Navistar	320-2113				
431619R91	Navistar		372-7098	307-0713	373-0113	373-0423
431620R91	Navistar	343-4009				
431620R92	Navistar	343-4009				
431621R2	Navistar	330-3009/3067				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
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	383-0464
43761	C/R PlusXL		382-8064	308-0864	383-0164	383-0464
43762	C/R		382-8064	308-0864	383-0164	383-0464
43763	C/R		382-8064	308-0864	383-0164	383-0464
43764	C/R Classic		382-8064	308-0864	383-0164	383-0464
43820	C/R		392-9092			
43820	C/R		392-9096			
43860	C/R Classic		392-9096			
43861	C/R		392-9096			
43865	C/R		392-9092			
43875	C/R		392-9131	309-0973	393-0173	393-0473
44068	Great Dane	343-4009				
447551C91	Navistar		392-9131	309-0973	393-0173	393-0473
447551C92	Navistar	310-1013				
447556C91	Navistar			308-0853		
447561C91	Navistar		382-8036	308-0836	383-0136	383-0436
447562C91	Navistar		382-8064	308-0864	383-0164	383-0464
447563C91	Navistar		392-9001			
447563C92	Navistar	320-2001				
447564C92	Navistar	320-2113				
447567C92	Navistar	320-2117				
447569C91	Navistar		392-9096			
447569C92	Navistar		392-9096			
447574C91	Navistar		392-9131	309-0973	393-0173	393-0473
447574C92	Navistar		392-9131	309-0973	393-0173	393-0473
44916	C/R PlusXL			308-0853		
44919	C/R			308-0853		
44920	C/R			308-0853		
44922	C/R Classic			308-0853		
450023	C/R	330-3109				
450155	C/R	330-3106				
450293	C/R	330-3122				
450358	National	460-6004				
450409	C/R	310-1057				
45066	C/R		392-9094	309-0903	393-0103	
45069	C/R		392-9094	309-0903	393-0103	
45070	C/R		392-9094	309-0903	393-0103	
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				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
450748	C/R	**330-3041**				
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**	
45095					**383-0156**	
45097	C/R		**392-9094**	**309-0903**	**393-0103**	
45098	C/R		**392-9094**	**309-0903**	**393-0103**	
450980	C/R	**330-3110**				
450981	C/R	**330-3111**				
450982	C/R	**330-3112**				
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**	
45102	C/R				**383-0156**	
45103	C/R Classic				**383-0156**	
45108	C/R		**392-9094**	**309-0903**	**393-0103**	
45152	C/R		**392-9131**	**309-0973**	**393-0173**	
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**				
455023	C/R	**357-5706**				
455034	C/R	**310-1041**				
455037	C/R	**310-1051**				
455052	C/R	**310-1051**				
455058	National		**392-9112**	**309-0904**	**393-0104**	

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
455060	National		**392-9096**			
455068	National		**392-9019**			
455173	National		**392-9036**			
455188	National				**383-0139**	
455211	National		**372-7097**	**307-0743**	**373-0143**	**373-0443**
455355	National		**382-8066**	**308-0866**	**383-0166**	
455858	National			**309-0935**		
455958	National		**392-9099**	**309-0912**	**393-0112**	
4563V	National	**460-6003**				
456618	National		**392-9099**	**309-0912**	**393-0112**	
45742	Great Dane	**330-3009**				
45951	Great Dane	**320-2110**				
45952	Great Dane	**315-1504**				
46200	C/R		**392-9094**	**309-0903**	**393-0103**	
46211	C/R		**392-9094**	**309-0903**	**393-0103**	
46300	C/R PlusXL		**372-7097**	**307-0743**	**373-0143**	**373-0443**
46304	C/R		**372-7097**	**307-0743**	**373-0143**	**373-0443**
46305	C/R Classic		**372-7097**	**307-0743**	**373-0143**	**373-0443**
46306	C/R		**372-7097**	**307-0743**	**373-0143**	**373-0443**
46308	C/R LongLife		**372-7097**	**307-0743**	**373-0143**	**373-0443**
46390	C/R		**372-7022**			
46390	C/R		**372-7099**	**307-0723**	**373-0123**	**373-0423**
465510C91	Navistar	**320-2164**				
46841	Victor		**372-7099**	**307-0723**	**373-0123**	**373-0423**
469844C1	Navistar		**382-8066**	**308-0866**	**383-0166**	
469845C1	Navistar		**392-9036**			
47017	Great Dane	**347-4009**				
472HH101	Dana	**460-6007**				
47394	C/R		**372-7098**	**307-0713**	**373-0113**	
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**	**373-0423**
47556	Great Dane		**372-7097**	**307-0743**	**373-0113**	
47690	C/R		**392-9132**			
47691/47692	C/R PlusXL		**392-9131**	**309-0973**	**393-0173**	**393-0473**
47693	C/R LongLife		**392-9131**	**309-0973**	**393-0173**	**393-0473**
47694	C/R	*Narrow version of 47695 for ABS*				
47695	C/R		**392-9131**	**309-0973**	**393-0173**	**393-0473**
47696	C/R		**392-9131**	**309-0973**	**393-0173**	**393-0473**
47697	C/R Classic		**392-9131**	**309-0973**	**393-0173**	**393-0473**
47698	C/R	*Same as 47697 used for worn hubs or oversize seal bore*				
47699	C/R		**392-9087**			
47802	Victor		**392-9096**			
47803	Victor		**392-9132**			
48000	C/R Classic		**392-9132**			

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
48001	C/R		392-9132			
48086	Victor		372-7097	307-0743	373-0143	373-0443
48088	Victor		372-7098	307-0713	373-0113	
48089	Victor		392-9131	309-0973	393-0173	393-0473
48090	Victor		382-8036	308-0836	383-0136	383-0436
48091	Victor		392-9099	309-0912	393-0112	
48095	Victor		392-9094	309-0903	393-0103	
48096	Victor			309-0935		
48097	Victor				383-0156	
48098	Victor		392-9112	309-0904	393-0104	
48298	C/R	320-2001 w/310-1021				
48690	C/R Classic				393-0134	
48691	C/R				393-0134	
48693	C/R				393-0134	
48700	C/R				393-0134	
48701	C/R				393-0134	
4874N	National	460-6004				
48844	C/R		392-9001			
48882	C/R		392-9132			
48884	C/R		392-9001			
49050	C/R		392-9131	309-0973	393-0173	393-0473
490577C92	Navistar				383-0156	
490578C91	Navistar	320-2181				
500200C91	Navistar	320-2199				
5010196	Trailmobile	320-2110				
5010198	Trailmobile	315-1504				
50148	C/R	320-2001				
50150	C/R	320-2001				
504081	C/R		392-9094	309-0903	393-0103	
506085	Eaton	343-4024				
506089	Eaton	343-4249				
506161	Eaton	330-3024				
50640	C/R		392-9131	309-0973	393-0173	393-0473
506775	Eaton		382-8064	308-0864	383-0164	383-0464
507842C91	Navistar	320-2199				
507844C91	Navistar	320-2164				
512657C1	Navistar	320-2110				
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	
530088	Fruehauf	448-4836				
530480	Fruehauf		372-7099	307-0723	373-0123	373-0423
54395	C/R		392-9001			
54533HA	Navistar		392-9036			
5473	National		392-9001			
547915C91	Navistar		392-9099	309-0912	393-0112	
5481	National		392-9131	309-0973	393-0173	393-0473

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
548347C91	Navistar		392-9131	309-0973	393-0173	393-0473
548347C92	Navistar		392-9131	309-0973	393-0173	393-0473
54935	C/R		392-9001			
5495	National		392-9087			
55175	C/R		392-9053			
55177	C/R		392-9053			
5667	National		392-9099			
578913C1	Navistar	320-2041				
587989C91	Navistar				383-0156	
589822C91	Navistar			308-0853		
591587C1	Navistar			308-0855		
594962C1	Navistar		392-9131	309-0973	393-0173	393-0473
594963C1	Navistar		392-9099	309-0912	393-0112	
594964C1	Navistar		382-8064	308-0864	383-0164	383-0464
594965C1	Navistar		382-8066	308-0866	383-0166	
594966C1	Navistar			308-0853		
596555C1	Navistar		382-8036	308-0836	383-0136	383-0436
596556C1	Navistar		392-9001			
60501012	Trailmobile		372-7097	307-0743	373-0143	373-0443
61001G	TriSeal	330-3001				
61002G	TriSeal	330-3019				
61006G	TriSeal	330-3006				
61009G	TriSeal	330-3009				
61011G	TriSeal	330-3011				
61012G	TriSeal	330-3012				
61015G	TriSeal	330-3015				
61017G	TriSeal	330-3017				
61022G	TriSeal	330-3022				
61024G	TriSeal	330-3024				
61025G	TriSeal	330-3025				
61027G	TriSeal	330-3102				
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				
61044G	TriSeal	330-3044				
61045G	TriSeal	330-3045				
61046G	TriSeal	330-3046				
61054G	TriSeal	330-3054				
61056G	TriSeal	330-3056				
61060G	TriSeal	330-3060				
61062G	TriSeal	330-3062				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
61066G	TriSeal	**330-3066**				
61067G	TriSeal	**330-3067**				
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**				
63005	TriSeal	**310-1005**				
63007	TriSeal	**310-1007**				
63009	TriSeal	**310-1009**				
63013	TriSeal	**310-1013**				
63017	TriSeal	**310-1017**				
63018	TriSeal	**310-1018**				
63041	TriSeal	**310-1041**				
63050	TriSeal		**310-1050**			
63051	TriSeal		**310-1051**			
63052	TriSeal		**310-1052**			
63053	TriSeal		**310-1053**			
63057	TriSeal		**310-1057**			
63062	TriSeal		**310-1062**			
63063	TriSeal		**310-1063**			
63064	TriSeal		**310-1064**			
63079	TriSeal		**310-1079**			
63H13	Crane	**343-4264**				
63H16	Crane	**343-4095**				
63H7	Crane	**343-4009**				
64006	TriSeal	**343-4006**				
64009	TriSeal	**343-4009**				
64009H	TriSeal	**347-4009**				
64013	TriSeal	**343-4013**				
64024	TriSeal	**343-4024**				
64025	TriSeal	**343-4025**				
64046	TriSeal	**343-4046**				
64046	TriSeal	**343-4095**				
64046	TriSeal	**343-4249**				
64065	TriSeal	**343-4065**				
64075A	TriSeal	**343-4075**				
64075G	TriSeal	**342-4075**				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
64075P	TriSeal	**340-4975**				
64098	TriSeal	**343-4098**				
64249	TriSeal	**343-4249**				
64656	Eaton	**460-6006**				
64999	TriSeal	**359-5990**				
65000U	TriSeal				**308-0853**	
65000W	TriSeal				**308-0853**	
65011W	TriSeal				**309-0935**	
65011W	TriSeal		**392-9036**			
65024U	TriSeal		**392-9099**			
65030U	TriSeal		**392-9089**	**309-0948**	**393-0148**	
65030W	TriSeal		**392-9089**	**309-0948**	**393-0148**	
65052W	TriSeal		**392-9099**	**309-0912**	**393-0112**	
65056U	TriSeal		**392-9131**	**309-0973**	**393-0173**	**393-0473**
65056W	TriSeal		**392-9131**	**309-0973**	**393-0173**	**393-0473**
65060U	TriSeal		**372-7097**	**307-0743**	**373-0143**	**373-0443**
65060W	TriSeal		**372-7097**	**307-0743**	**373-0143**	**373-0443**
65065W	TriSeal		**392-9132**			
65071U	TriSeal		**392-9112**	**309-0904**	**393-0104**	
65071U	TriSeal		**392-9130**	**309-0904**	**393-0104**	
65071W	TriSeal		**392-9112**	**309-0904**	**393-0104**	
65078U	TriSeal				**383-0156**	
65078W	TriSeal				**383-0156**	
65092U	TriSeal		**382-8064**	**308-0864**	**383-0164**	**383-0464**
65092W	TriSeal		**382-8064**	**308-0864**	**383-0164**	**383-0464**
65111U	TriSeal			**309-0935**		
65152U	TriSeal		**392-9099**	**309-0912**	**393-0112**	
65156U	TriSeal		**392-9131**	**309-0973**	**393-0173**	**393-0473**
65165U	TriSeal		**392-9132**			
65184U	TriSeal		**392-9096**			
65261U	TriSeal		**372-7098**	**307-0713**	**373-0113**	
65261W	Triseal		**372-7098**	**307-0713**	**373-0113**	
65262U	TriSeal		**372-7099**	**307-0723**	**373-0123**	**373-0423**
65262W	TriSeal		**372-7022**			
65262W	TriSeal		**372-7099**	**307-0723**	**373-0123**	**373-0423**
65263U	TriSeal		**382-8036**	**308-0836**	**383-0136**	**383-0436**
65263W	TriSeal		**382-8036**	**308-0836**	**383-0136**	**383-0436**
65267	TriSeal		**382-8029**			
65269W	TriSeal		**392-9001**			
65270U	TriSeal		**392-9094**	**309-0903**	**393-0103**	
65270W	TriSeal		**392-9094**	**309-0903**	**393-0103**	
65272W	TriSeal		**392-9094**	**309-0903**	**393-0103**	
65276	TriSeal		**392-9099**	**309-0912**	**393-0112**	
65283U	TriSeal		**392-9087**			
65283W	TriSeal		**392-9087**			
65285W	TriSeal		**392-9092**			
65298U	TriSeal			**307-0744**	**373-0144**	

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
65298W	TriSeal			307-0744	373-0144	
65299	TriSeal		372-7015			
6638S	National		382-8036	308-0836	383-0136	383-0436
67006	TriSeal	356-5606				
67013	TriSeal	310-1013				
680272R92	Navistar	343-4046				
680272R92	Navistar	343-4249				
6804010425	Freightliner	343-4281				
68048	TriSeal	315-1504				
68088	TriSeal	315-1515				
6809970049	Freightliner	330-3040				
681365R2	Navistar	310-1079				
6814010225	Freightliner	343-4095				
6819970046	Mercedes		392-9099	309-0912	393-0112	
6819970046	Freightliner		392-9099	309-0912	393-0112	
6819970446	Freightliner		382-8036	308-0836	383-0136	383-0436
6819970546	Freightliner		392-9131	309-0973	393-0173	393-0473
68380	Eaton		392-9096			
685215	GMC/Volvo	320-2106				
685216	GMC/Volvo	320-2106				
6872S	National		392-9131	309-0973	393-0173	393-0473
6873S	National		392-9001			
69307R91	Navistar			309-0935		
69502	TriSeal	320-2041				
69510	TriSeal		372-7098	307-0713	373-0113	
69512	TriSeal		372-7015			
69520	TriSeal		372-7099	307-0723	373-0123	373-0423
69539	TriSeal		372-7049			
69594	TriSeal		372-7022			
69596	TriSeal		372-7099	307-0723	373-0123	373-0423
69597	TriSeal		372-7098	307-0713	373-0113	
69598	TriSeal		372-7097	307-0743	373-0143	373-0443
69599	TriSeal		372-7095	307-0744	373-0144	
69697	TriSeal		382-8064	308-0864	383-0164	383-0464
69699	TriSeal		382-8036	308-0836	383-0136	383-0436
69706	TriSeal		392-9099	309-0912	393-0112	
69780	TriSeal		392-9019			
69781	TriSeal		392-9089	309-0948	393-0148	
69783	TriSeal		392-9001			
69785	TriSeal			309-0935		
69786	TriSeal		392-9036			
69788	TriSeal		392-9112	309-0904	393-0104	
69789	TriSeal		392-9087			
69792	TriSeal		392-9092			
69794	TriSeal		392-9099	309-0912	393-0112	
69797	TriSeal		392-9096			
69798	TriSeal		392-9132			

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
69799	TriSeal		392-9131	309-0973	393-0173	393-0473
698764R1	Navistar		372-7098	307-0713	373-0113	
7001260OE	Trailmobile	343-4009				
700126CD	Trailmobile	343-4013				
7003942	Western Star	343-4249				
7006S	National		392-9087			
701679	GMC/Volvo	320-2115				
7023479	Meritor	343-4095				
705400P	Mechanex/Barrier		382-8036	308-0836	383-0136	383-0436
70596	TriSeal		372-7099	307-0723	373-0123	373-0423
70597	TriSeal		372-7098	307-0713	373-0113	
70598	TriSeal		372-7097	307-0743	373-0143	373-0443
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	
70789	TriSeal		392-9087			
70794	TriSeal		392-9099	309-0912	393-0112	
70796	TriSeal		392-9094	309-0903	393-0103	
70797	TriSeal		392-9096			
70798	TriSeal		392-9132			
70799	TriSeal		392-9131	309-0973	393-0173	393-0473
712834	GMC/Volvo		392-9099	309-0912	393-0112	
719021	C/R	330-3077				
720659	GMC/Volvo		372-7097	307-0743	373-0143	373-0443
730003	National	330-3025				
730003	National	330-3035				
730004	National	330-3024				
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				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
733109	National	**330-3109**				
733110	National	**330-3110**				
733111	National	**330-3111**				
733112	National	**330-3112**				
733113	National	**330-3113**				
733114	National	**330-3114**				
733115	National	**330-3115**				
7378	National		**392-9087**			
745400P	Mechanex/Barrier		**372-7099**	**307-0723**	**373-0123**	**373-0423**
747400P	Mechanex/Barrier		**372-7098**	**307-0713**	**373-0113**	
749400P	Mechanex/Barrier		**372-7095**	**307-0744**	**373-0144**	
755400P	Mechanex/Barrier		**372-7097**	**307-0743**	**373-0143**	**373-0443**
761400P	Mechanex/Barrier		**392-9131**	**309-0973**	**393-0173**	**393-0473**
770400P	Mechanex/Barrier		**392-9099**	**309-0912**	**393-0112**	
775698C91	Navistar		**392-9131**	**309-0973**	**393-0173**	**393-0473**
780316C91	Navistar			**308-0853**		
781265C91	Navistar	**343-4249**				
785400P	Mechanex/Barrier		**392-9094**	**309-0903**	**393-0103**	
794408C91	Navistar		**382-8064**	**308-0864**	**383-0164**	**383-0464**
79470	Eaton	**460-6002**				
7EQH1175	Ford		**392-9099**	**309-0912**	**393-0112**	
8061231	GMC/Volvo	**330-3009**				
8069924	GMC/Volvo	**343-4024**				
806994	GMC/Volvo	**343-4024**				
810196	Eaton	**320-2137**				
812928	Eaton	**343-4095**				
815214	Eaton	**343-4195**				
815215	Eaton		**372-7099**	**307-0723**	**373-0123**	**373-0423**
815312	Eaton	**330-3106**				
815996	Eaton	**343-4264**				
820394	Eaton	**447-4743**				
820395	Eaton	**447-4743**				
821187	Eaton	**340-5098**				
821338	Eaton	**343-4009**				
821601	Eaton		**372-7097**	**307-0743**	**373-0143**	**373-0443**
821604	Eaton	**315-1504**				
821610	Eaton	**320-2110**				
821615	Eaton	**340-4119**				
821907	Eaton	**343-4009**				
847	NOK		**382-8036**	**308-0836**	**383-0136**	**383-0436**
848	NOK		**392-9099**			
849	NOK		**392-9099**	**309-0912**	**393-0112**	
850	NOK		**372-7098**	**307-0713**	**373-0113**	
851	NOK		**372-7099**	**307-0723**	**373-0123**	**373-0423**
852	NOK		**392-9112**	**309-0904**	**393-0104**	
853	NOK		**372-7095**	**307-0744**	**373-0144**	
854	NOK		**392-9092**			

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
855	NOK			**308-0853**		
856	NOK		**392-9094**	**309-0903**	**393-0103**	
857	NOK				**383-0156**	
858381	GMC/Volvo	**343-4024**				
858381	Western Star	**343-4024**				
859	NOK		**372-7097**	**307-0743**	**373-0143**	**373-0443**
860	NOK		**392-9132**			
861	NOK		**392-9131**	**309-0973**	**393-0173**	**393-0473**
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**	**383-0464**
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**				
870889C91	Navistar		**382-8064**	**308-0864**	**383-0164**	**383-0464**
870890C91	Navistar		**382-8064**	**308-0864**	**383-0164**	**383-0464**
8720	Trailmobile	**330-3009**				
875188R2	Navistar		**392-9099**	**309-0912/0915**		
88319	NOK			**309-0973**	**393-0173**	**393-0473**
88327	Eaton					
8872	National		**382-8064**	**308-0864**	**383-0164**	**383-0464**
8873095	GMC/Volvo	**460-6006**				
88AX177	Mack		**392-9094**	**309-0903**	**393-0103**	
88AX372	Mack		**392-9098**	**309-0948**	**393-0148**	
88AX375	Mack		**392-9089**	**309-0948**	**393-0148**	
88AX376	Mack		**392-9089**	**309-0948**	**393-0148**	
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**	
88AX407	Mack		**392-9094**	**309-0903**	**393-0103**	
88AX418	Mack		**392-9112**	**309-0904**	**393-0104**	
88AX420	Mack		**392-9131**	**309-0973**	**393-0173**	**393-0473**
88AX421	Mack		**392-9094**	**309-0903**	**393-0103**	
88AX424	Mack		**392-9089**	**309-0948**	**393-0148**	
88AX427	Mack		**392-9096**			
88AX432	Mack	**320-2009**				
88AX448	Mack		**392-9112**	**309-0904**	**393-0104**	
88AX450	Mack		**392-9132**			
88AX461	Mack		**392-9131**	**309-0973**	**393-0173**	**393-0473**

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
88AX466	Mack		392-9112	309-0904	393-0104	
88AX467	Mack		392-9094	309-0903	393-0103	
88AX469	Mack		382-8064	308-0864	383-0164	383-0464
891016	Western Star	320-2001				
896941R91	Navistar		382-8064	308-0864	383-0164	383-0464
898235R92	Navistar	320-2114				
898235R93	Navistar		392-9096			
900868	Trailmobile	343-4075				
9015S	National		392-9131	309-0973	393-0173	393-0473
9022299832	Heil	343-4075				
9022299868	Heil		372-7099	307-0723	373-0123	373-0423
90501017	Trailmobile		372-7097	307-0743	373-0143	373-0443
90501018	Trailmobile	320-2023				
9156004	GMC/Volvo	310-1010				
921010001	Western Star	330-3097				
921010002	GMC/Volvo	343-4024				
921010003	GMC/Volvo	343-4046				
921010009	GMC/Volvo	340/343-4009				
921010024	GMC/Volvo	340-4119				
921010034	GMC/Volvo	343-4095				
921010043	GMC/Volvo	343-4281				
921015015	GMC/Volvo	343-4009				
921020001	GMC/Volvo	330-3097				
921030002	GMC/Volvo	359-5990				
9339S	National		382-8036	308-0836	383-0136	383-0436
940010001	GMC/Volvo		382-8064	308-0864	383-0164	383-0464
940010002	GMC/Volvo	320-2099				
940010002	Western Star	320-2099				
940010005	GMC/Volvo	320-2137				
940010005	Western Star	320-2137				
940010006	GMC/Volvo		372-7097	307-0743	373-0143	373-0443
940010007	GMC/Volvo		392-9053			
940010010	GMC/Volvo		382-8036	308-0836	383-0136	383-0436
940010011	GMC/Volvo		392-9087			
940010013	GMC/Volvo		392-9087			
940010013	Western Star	320-2162				
940010014	GMC/Volvo		382-8036	308-0836	383-0136	383-0436
940010015	GMC/Volvo		392-9087			
940010017	GMC/Volvo		392-9099	309-0912		
940010019	GMC/Volvo		392-9131	309-0973	393-0173	393-0473
940010021	GMC/Volvo		382-8036	308-0836	383-0136	383-0436
940010022	GMC/Volvo		392-9131	309-0973	393-0173	393-0473
940010022	Western Star		392-9131	309-0973	393-0173	393-0473
940010028	GMC/Volvo		392-9131	309-0973	393-0173	393-0473
940010029	GMC/Volvo		382-8036	308-0836	383-0136	383-0436
940010030	GMC/Volvo		392-9131	309-0973	393-0173	393-0473
940010034	GMC/Volvo		392-9131	309-0973	393-0173	393-0473

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
940010038	GMC/Volvo		382-8064	308-0864	383-0164	383-0464
940010039	GMC/Volvo		382-8036	308-0836	383-0136	383-0436
940010040	GMC/Volvo		392-9131	309-0973	393-0173	393-0473
940013406	GMC/Volvo	320-2110				
940013406	Western Star	320-2110				
940013409	GMC/Volvo		372-7097	307-0743	373-0143	373-0443
940013410	GMC/Volvo		372-7097	307-0743	373-0143	373-0443
940013412	Western Star		372-7097	307-0743	373-0143	373-0443
940013604	GMC/Volvo		382-8036	308-0836	383-0136	383-0436
940013802	GMC/Volvo	320-2109				
940013804	GMC/Volvo	320-2110				
940013902	Western Star		382-8064	308-0864	383-0164	383-0464
940015001	Western Star		382-8036	308-0836	383-0136	383-0436
940040001	GMC/Volvo	310-1089				
940040001	Western Star	310-1089				
940043802	GMC/Volvo	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			309-0935		
966446R91	Navistar	460-6001				
972401R91	Navistar		392-9099	309-0912/0915		
972424R91	Navistar	460-6012				
974526R91	Navistar		392-9131	309-0973	393-0173	393-0473
982259R91	Navistar		392-9001			
983570R1	Navistar		392-9131	309-0973	393-0173	393-0473
992481C91	Navistar		382-8066	308-0866	383-0166	
992484C91	Navistar				383-0156	
992485C91	Navistar				383-0156	
A1205B1250	Meritor	320-2110				
A1205B2264	Meritor		382-8036	308-0836	383-0136	383-0436
A1205C1381	Meritor	320-2105				
A1205C1719	Meritor		382-8071			
A1205C1875	Meritor		372-7098	307-0713	373-0113	
A1205C1875	Meritor					
A1205C2343	Meritor		372-7097	307-0743	373-0143	373-0443
A1205D1070	Meritor	320-2137				
A1205D2526	Meritor		392-9099	309-0912	393-0112	

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
A1205D2578	Meritor		382-8064	308-0864	383-0164	383-0464
A1205E1799	Meritor		372-7098	307-0713	373-0113	
A1205E2475	Meritor		382-8036	308-0836	383-0136	383-0436
A1205F136	Meritor				383-0101	
A1205F2554	Meritor		382-8066	308-0866	383-0166	
A1205G1515	Meritor			308-0863		
A1205G2191	Meritor		372-7097	307-0743	373-0143	373-0443
A1205G2503	Meritor		392-9099	309-0912	393-0112	
A1205G631	Meritor		382-8036	308-0836	383-0136	383-0436
A1205H1100	Meritor	320-2061				
A1205J2194	Meritor		392-9131	309-0973	393-0173	393-0473
A1205J2350	Meritor		392-9132			
A1205K1285	Meritor	320-2106				
A1205K2351	Meritor		372-7099	307-0723	373-0123	373-0423
A1205K999	Meritor		372-7097	307-0743	373-0143	373-0443
A1205L1338	Meritor		382-8036	308-0836	383-0136	383-0436
A1205L1546	Meritor				393-0134	
A1205L1598	Meritor		372-7097	307-0743	373-0143	373-0443
A1205L2352	Meritor		392-9131	309-0973	393-0173	393-0473
A1205M1339	Meritor		382-8064	308-0864		
A1205M897	Meritor		372-7098	307-0713	373-0113	
A1205N1912	Meritor		382-8036	308-0836	383-0136	383-0436
A1205N898	Meritor		372-7095	307-0744	373-0144	
A1205P1108	Meritor		382-8064	308-0864	383-0164	383-0464
A1205P1212	Meritor		372-7097	307-0743	373-0143	373-0443
A1205P1888	Meritor		372-7099	307-0723	373-0123	373-0423
A1205Q1889	Meritor		372-7099	307-0713	373-0123	373-0423
A1205Q1915	Meritor	460-6012				
A1205Q2487	Meritor		392-9131	309-0973	393-0173	393-0473
A1205R1630	Meritor		392-9087			
A1205R2410	Meritor		392-9131	309-0973	393-0173	393-0473
A1205R2566	Meritor		372-7097	307-0743	373-0143	373-0443
A1205S2307	Meritor		382-8064	308-0864	383-0164	383-0464
A1205T696	Meritor		392-9131	309-0973	393-0173	393-0473
A1205T774	Meritor		392-9053			
A1205U1061	Meritor		392-9131	309-0973	393-0173	393-0473
A1205U1659	Meritor	320-2099				
A1205U1711	Meritor	320-2133				
A1205U2101	Meritor		392-9131	309-0973	393-0173	393-0473
A1205U2205	Meritor		372-7062			
A1205U2491	Meritor		382-8036	308-0836	383-0136	383-0436
A1205U697	Meritor		392-9087			
A1205V1192	Meritor	320-2086				
A1205V2180	Meritor		392-9131	309-0973	393-0173	393-0473
A1205V2492	Meritor		392-9131	309-0973	393-0173	393-0473
A1205W1349	Meritor		392-9099	309-0912/0915		
A1205W1375	Meritor		382-8036	308-0836	383-0136	383-0436

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
A1205W1557	Meritor			309-0935		
A1205W1557	Meritor		392-9036			
A1205X1662	Meritor		372-7097	307-0743	373-0143	373-0443
A1205X2702	Meritor		372-7097	307-0743	373-0143	373-0443
A1205X700	Meritor		392-9001			
A1205Y1975	Meritor		372-7099	307-0723	373-0123	373-0423
A1205Z1742	Meritor	320-2104				
A1205Z1820	Meritor		392-9053			
A1205Z2470	Meritor		392-9099	309-0912/0915		
A1205Z780	Meritor	382-8064	308-0864			
A-1227-A-105	Meritor	448-4836				
A-1227-S-331	Meritor	449-4973				
A1805S615	Meritor		392-9094	309-0903	393-0103	
A1805V542	Meritor		392-9131	309-0973	393-0173	393-0473
A2208N820	Meritor	330-3097				
A3262A1353	Meritor	343-4176				
A3262C133	Meritor	343-4009				
A3262D264	Meritor	343-4249				
A3262G1177	Meritor	343-4095				
A3262G215	Meritor	343-4024				
A3262H1048	Meritor	347-4009				
A3262H398	Meritor	343-4009				
A3262J1180	Meritor	343-4195				
A3262M1183	Meritor	341-4009				
A3262Q277	Meritor	343-4065				
A3262Q407	Meritor	343-4075				
A3262T1216	Meritor	343-4024				
ACA5207	Fruehauf		372-7099	307-0723	373-0123	373-0423
ACA52071	Fruehauf		372-7099	307-0723	373-0123	373-0423
ACE55171	Fruehauf		372-7099	307-0723	373-0123	373-0423
ACE-8510-001	Fruehauf	447-4723				
ACF006562	Fruehauf		372-7099	307-0723	373-0123	373-0423
ACF6562	Fruehauf		372-7099	307-0723	373-0123	373-0423
AR10	National	310-1041				
AR4	National	310-1051				
AR5	National	310-1050				
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	373-0423
B370131BGO	National				383-0156	
B6Q1175A	Ford			309-0935		
C5TA1190B	Ford		382-8064	308-0864	383-0164	383-0464
C5TZ1190B	Ford		382-8064	308-0864	383-0164	383-0464

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
C9HZ1175A	Ford		392-9096			
D0HA1131U	Ford	343-4024				
D0HA1153M	Ford	330-3012				
D0HA1153R	Ford	330-3024				
D0HA1153S	Ford	330-3040				
D0HA1190S	Ford	320-2105				
D0HZ1131A	Ford	343-4065				
D0HZ1131C	Ford	343-4024				
D0HZ1153A	Ford	330-3040				
D0HZ1153C	Ford	330-3024				
D0HZ1153D	Ford	330-3009				
D0HZ1153G	Ford	330-3012				
D0HZ1153J	Ford	330-3040				
D0HZ1173A	Ford	310-1064				
D0HZ1175B	Ford			309-0935		
D0HZ1175D	Ford		392-9099	309-0912, 0915		
D0HZ1175E	Ford		392-9096			
D0HZ1190B	Ford		382-8036	308-0836	383-0136	383-0436
D0HZ1A131A	Ford	359-5990				
D0TZ1175B	Ford			309-0935		
D0TZ1175D	Ford		392-9099	309-0912, 0915		
D1HA1131EA	Ford	343-4124				
D1HA1131KA	Ford	343-4249				
D1HA1190AA	Ford		382-8036	308-0836	383-0136	383-0436
D1HS1175BA	Ford		392-9096			
D1HS1190AA	Ford			308-0863		
D1HZ1190A	Ford		382-8036	308-0836	383-0136	383-0436
D2HA4813AA	Ford	460-6007				
D3HS1175BA	Ford	320-2102				
D3TA1190B1A	Ford			308-0863		
D5H-3104A	Ford	448-4837				
D5HA1175AA	Ford	320-2106				
D5HZ1175A	Ford		392-9131	309-0973	393-0173	393-0473
D5HZ1190A	Ford			308-0863		
D5HZ1190B	Ford		382-8036	308-0836	383-0136	383-0436
D5HZ1190C	Ford		382-8064	308-0864	383-0164	383-0464
D5HZ1190D	Ford		382-8064	308-0864	383-0164	383-0464
D5HZ1190E	Ford			308-0863		
D7HD1173AA	Ford	310-1089				
D7HD1175AA	Ford	320-2099				
D7HT1175BA	Ford	320-2001				
D7HZ1175D	Ford		392-9131	309-0973	393-0173	393-0473
D7HZ1175E	Ford		392-9001			
D7HZ4255A	Ford	449-4974				
D7HZ4245A	Ford	449-4974				
DG516P	Dual Dynamics	340-4013				
DG516PS	Dual Dynamics	343-4013				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
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				
E0HZ1A131B	Ford	359-5915				
E1HT1175BA	Ford		392-9131	309-0973	393-0173	393-0473
E1HZ1175A	Ford		392-9131	309-0973	393-0173	393-0473
E1HZ1175B	Ford		392-9131	309-0973	393-0173	393-0473
E2HT1190AA	Ford		382-8036	308-0836	383-0136	383-0436
E2HT1190BA	Ford		382-8064	308-0864	383-0164	383-0464
E2HZ1175A	Ford		392-9131	309-0973	393-0173	393-0473
E2HZ1177A	Ford		392-9131	309-0973	393-0173	393-0473
E3HS1131AA	Ford	343-4009				
E3HZ1190B	Ford		382-8036	308-0836	383-0136	383-0436
E3HZ1190C	Ford		382-8064	308-0864	383-0164	383-0464
E4HS-4255-AA	Ford	449-4973				
E4HT1175AA	Ford		392-9131	309-0973	393-0173	393-0473
E4HZ1175B	Ford		392-9131	309-0973	393-0173	393-0473
E5HT1175CA	Ford		392-9099	309-0912, 0915		
E5HT1175GA	Ford		392-9131	309-0973	393-0173	393-0473
E5HT1190AA	Ford			308-0863		
E5HZ1131A	Ford	343-4046				
E5HZ1131B	Ford	343-4095				
E5HZ1190A	Ford			308-0863		
E5TZ1177B	Ford			309-0935		
E6HT1175AA	Ford		392-9099	309-0912, 0915		
E6HZ1175C	Ford		392-9099	309-0912, 0915		
E6HZ1175E	Ford		392-9099	309-0912, 0915		

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
E6HZ1190A	Ford			308-0863		
E6HZ1190D	Ford		382-8036	308-0836	383-0136	
E7HT1175AA	Ford			309-0935		
E7HT1190AA	Ford		382-8036	308-0836	383-0136	383-0436
E7HZ1175A	Ford		392-9035	309-0935		
E7HZ1190A	Ford		382-8036	308-0836	383-0136	383-0436
E8HS1175BA	Ford		392-9131	309-0973	393-0173	393-0473
E8HS1175CA	Ford		392-9131	309-0973	393-0173	393-0473
E8HS1190CA	Ford		382-8036	308-0836	383-0136	383-0436
E8TW1177BA	Ford			309-0935		
E8TZ1177B	Ford			309-0935		
F0HT1190AA	Ford		382-8036	308-0836	383-0136	383-0436
F0TZ1177A	Ford			309-0935		
F0TZ1177AA	Ford			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	383-0464
F18572	Eaton		382-8064	308-0864	383-0164	383-0464
F1HS1175AA	Ford		392-9099	309-0912, 0915		
F1HT1131AA	Ford	343-4065				
F1HZ1175A	Ford		392-9099	309-0912, 0915		
F1HZ1175C	Ford		392-9096			
F2HS1131AA	Ford	343-4281				
F2HS1190AA	Ford		382-8064	308-0864	383-0164	383-0464
F2HS3276AA	Ford	448-4837				
F2HT1175AA	Ford		392-9099	309-0912, 0915		
F2HZ1175A	Ford			309-0935		
F2HZ1175B	Ford		392-9099	309-0912, 0915		
F2HZ1175C	Ford		392-9131	309-0973	393-0173	393-0473
F3HS1175AA	Ford		392-9099	309-0912, 0915		
F3HT1131BA	Ford	343-4124				
F3HT1153AA	Ford	330-3024				
F3HT1175AA	Ford			309-0935		
F3HZ1131C	Ford	343-4024				
F3TW1177CA	Ford			309-0935		
F4HS1175BA	Ford		392-9131	309-0973	393-0173	393-0473
F4TZ1177B	Ford			309-0935		
F4TZ1177C	Ford			309-0935		
H075	National	343-4075				
HI004320	Monon	347-4009				
HI004323	Monon	320-2110				
HI004324	Monon	315-1504				
H1004325	Monon	343-4009				
H1004326	Monon	330-3009				
HI036513	Monon				373-0113	

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
HS1643	Mechanex/Barrier	343-4249				
HS34386	Mechanex/Barrier			309-0935		
HS34972	Mechanex/Barrier			308-0863		
HS34999	Mechanex/Barrier		392-9036			
HS35059	Mechanex/Barrier		382-8036	308-0836	383-0136	383-0436
HS36357	Mechanex/Barrier		382-8071			
HS38748	Mechanex/Barrier		392-9099	309-0912/0915		
HS38779	Mechanex/Barrier		392-9099	309-0912/0915		
HS40133	Mechanex/Barrier		372-7098	307-0713	373-0113	
HS42622	Mechanex/Barrier		372-7099	307-0723	373-0123	373-0423
HS42671	Mechanex/Barrier		392-9112	309-0904	393-0104	
HS43753	Mechanex/Barrier		372-7095	307-0744	373-0144	
HS43763	Mechanex/Barrier		382-8064	308-0864	383-0164	383-0464
HS43861	Mechanex/Barrier		392-9096			
HS44919	Mechanex/Barrier			308-0853		
HS45097	Mechanex/Barrier		392-9094	309-0903	393-0103	
HS45102	Mechanex/Barrier				383-0156	
HS453795	Mechanex/Barrier	330-3009				
HS455037	Mechanex/Barrier	310-1051				
HS46304	Mechanex/Barrier		372-7097	307-0743	373-0143	373-0443
HS47245	Mechanex/Barrier					
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			
HU007A	National	340-4370				
HU008A	National	343-4006				
HU008A	National	343-4008				
HU009A	National	343-4009				
HU009A	National	343-4046				
HU009A	National	343-4098				
HU013A	National	343-4013				
HU024A	National	343-4024				
HU036A	National	343-4025				
HU037A	National	343-4037				
HU057A	National	343-4057				
HU065A	National	343-4065				
HU110A	National	343-4095				
HU110A	National	343-4249				
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				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
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**				
M10HH107	Spicer-Dana		**372-7097**	**307-0743**	**373-0143**	**373-0443**
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**				
M10HH153	Spicer-Dana		**372-7097**	**307-0743**	**373-0143**	**373-0443**
M10HH154	Spicer-Dana		**382-8036**	**308-0836**	**383-0136**	**383-0436**
M10HH157	Spicer-Dana		**372-7099**	**307-0723**	**373-0123**	**373-0423**
M10HK124	Spicer-Dana	**340/343-4009**				
M10HK143	Spicer-Dana	**340-4157**				
M10HK162	Spicer-Dana	**343-4075**				
M10HK170	Spicer-Dana	**343-4024**				
M10HK182	Spicer-Dana	**340/343-4009**				
M10HK184	Spicer-Dana	**343-4009**				
M10HK185	Spicer-Dana	**343-4249**				
M10HN101	Spicer-Dana	**447-4743**				
M10HS104	Spicer-Dana	**310-1013**				
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**				

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COMPETITIVE PART NO.	COMPETITOR'S NAME	STEMCO MISC PRODUCTS	STEMCO STD/ GRIT GUARD®	STEMCO GUARDIAN®	STEMCO VOYAGER®	DISCOVER® XR
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**	**373-0443**
R20148223-4	Strick		**372-7099**	**307-0723**	**373-0123**	**373-0423**
R20148225	Strick	**343-4075**				
R20148227	Strick	**340/343-4009**				
R20148501	Strick	**640-0001**				
SS46842	Victor		**372-7098**	**307-0713**	**373-0113**	
SS46842-1	Victor		**372-7098**	**307-0713**	**373-0113**	
SS46847	Victor		**372-7095**	**307-0744**	**373-0144**	
SS47889	Victor		**392-9096**			
SS48087	Victor		**372-7099**	**307-0723**	**373-0123**	**373-0423**
SS64234-1	Victor		**382-8001**			
SS64236	Victor		**372-7097**	**307-0743**	**373-0143**	**373-0443**
SS64240-1	Victor		**372-7015**			
SS64414	Victor		**382-8036**	**308-0836**	**383-0136**	**383-0436**
SS64415	Victor			**308-0853**		
SS64452	Victor		**392-9094**	**309-0903**	**393-0103**	
SS64471	Victor		**372-7049**			
SS64487	Victor		**382-8019**			
SS64517	Victor		**382-8064**	**308-0864**	**383-0164**	**383-0464**
SS64530	Victor		**382-8036**	**308-0836**	**383-0136**	**383-0436**

(Continued Next Page)

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®	DISCOVER® XR
SS64538	Victor			**308-0863**		
SS64539	Victor				**383-0156**	
SS64542	Victor		**392-9094**	**309-0903**	**393-0103**	
SS64546	Victor		**392-9087**			
SS64553	Victor		**392-9096**			
SS64558	Victor			**309-0935**		
SS64558-1	Victor		**392-9036**			
SS64567	Victor		**392-9112**	**309-0904**	**393-0104**	
SS64569	Victor		**392-9089**	**309-0948**	**393-0148**	
SS64584	Victor		**392-9099**			
SS64603	Victor		**392-9131**	**309-0973**	**393-0173**	**393-0473**
SS68001	Victor		**372-7098**	**307-0713**	**373-0113**	
SS68002	Victor		**372-7099**	**307-0723**	**373-0123**	**373-0423**
SS68003	Victor		**372-7097**	**307-0743**	**373-0143**	**373-0443**
SS68004	Victor		**392-9132**			
SS68005	Victor			**372-7091**		
SS68006	Victor		**392-9131**	**309-0973**	**393-0173**	**393-0473**
SS68008	Victor		**372-7097**	**307-0743**	**373-0143**	**373-0443**
T13501317	Dodge		**392-9099**	**309-0912/0915**		
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**				

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®	DISCOVER® XR
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**				
UZ0255E0	NOK	**460-6012**				
UZ0301E0	NOK		**372-7098**	**307-0713**	**373-0113**	
UZ0302E0	NOK		**372-7099**	**307-0723**	**373-0123**	**373-0423**
UZ0303E0	NOK		**372-7097**	**307-0743**	**373-0143**	**373-0443**
UZ0304E0	NOK		**392-9131**	**309-0973**	**393-0173**	**393-0473**
UZ0305E0	NOK		**382-8036**	**308-0836**	**383-0136**	**383-0436**
UZ0306E0	NOK		**392-9099**	**309-0912**	**393-0112**	
V10895522	GMC/Volvo			**308-0870**		
V8027329	GMC/Volvo	**343-4095**				
V8027330	GMC/Volvo		**382-8064**	**308-0864**	**383-0164**	**383-0464**
W03HH101	Dana		**382-8064**	**308-0864**	**383-0164**	**383-0464**
W03HH102	Dana		**382-8036**	**308-0836**	**383-0136**	**383-0436**
W03HK100	Dana	**343-4249**				
X-115	Eaton	**448-4836**				
Z1026AD	Eaton	**310-1041**				
Z1026L	Eaton	**310-1050**				
Z1026T	Eaton		**392-9112**	**309-0604**	**393-0104**	

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HELP KEEP THE ROADWAYS SAFE WITH PROPER INSTALLATION

Proper installation of all components is important to ensure that your teams are Making the Roadways Safer®. When teams follow the proper installation steps (as laid out in the following section), you can also be sure your STEMCO parts will do what they're designed to do — which is to last longer, perform exceptionally and save you money.

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.

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 18	1/6 Turn* 1/4 Turn*
Steer (Double Nut)	14 18	1/2 Turn 1/2 Turn
Drive	12 16	1/4 Turn 1/4 Turn
Trailer	12 16	1/4 Turn 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.

Measuring Acceptable End Play

- **STEP 1** Using a magnetic base, mount the dial indicator on the spindle end, making sure the hub face is clean and free of gasket material.
- **STEP 2** Adjust the arm of the dial indicator, setting the plunger tip of the indicator on the machined face of the hub at the 12 o'clock position. The plunger should be set-up so that it is parallel to the axis of the spindle. When positioning the indicator tip, ensure that the indicator has adequate range of travel for proper measurement. Set the indicator to zero.
- **STEP 3** Grasp the wheel/hub assembly at the 3 o'clock and 9 o'clock positions. Pull the wheel end assembly outward while oscillating the wheel approximately 45.° While continuing to pull, stop oscillating and read the indicator.
- **STEP 4** Push the wheel assembly inward while oscillating. While continuing to push, stop oscillating and read the indicator.
- **STEP 5** Read bearing end play as total indicator movement.

NOTE: Acceptable end play is .001" to .005"as measured with a dial indicator as per TMC's Recommended Bearing Adjustment Procedure.

DISCOVER® XR / VOYAGER® 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).

DISCOVERXR®

Voyager®

GUARDIAN® HP INSTALLATION INSTRUCTIONS

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).

A

B

C

D

Guardian® HP

GRIT GUARD® SEAL INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

A

B

C

D

E

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®

AUTO-TORQ® INSTALLATION INSTRUCTIONS

This procedure will consistently set the bearings in an optimum state of pre-load per SAE J2535. Endplay reading should be 0.000" And the wheel end assembly should spin freely.

Auto-torq® should not be used with any systems that require the use of a spacer.

INSTALLATION PROCEDURE

Prepare hub assembly and spindle prior to installing Auto-Torq. The inner bearing and seal should be properly installed in a cleaned and prepared hub. LUBRICATE the ID of the seal. The spindle needs to be cleaned and threads need to be inspected for defects.

NOTE: Any damage to the threads may affect the ability of the Auto-Torq to fully seat the bearings. Be sure to inspect the threads of the spindle and always verify the installation with a dial indicator.

STEP 1

After docking the hub on a clean prepared spindle, insert the outer bearing and thread the fastener on by hand.

STEP 2

With a breaker bar (or torque wrench set to at least 100 ft-lbs), tighten the fastener until you hear a prominent/distinct "clicking" or "ratcheting" noise.

A. This feedback indicates that the fastener is limiting. You may hear/feel more subtle "clicking" prior to this more prominent limiting point that is caused by the locking mechanism starting to engage. In this case, continue to tighten until the feedback is much more pronounced to ensure that the fastener is limiting properly. NOTE: You cannot "overtighten" this fastener, so if there is any doubt, continue to tighten to confirm the fastener has reached the limiting point.

B. The fastener will limit on its own before 75ft-lbs, so using a torque wrench set to at least 100 ft-lbs will ensure the wrench performs essentially like a breaker bar and allow the fastener to reach its designed limit point. **DO NOT** use an impact gun to tighten this fastener as it may damage the internal components.

STEP 3

With hub or hub/drum only:

A. Tighten the fastener (1) full rotation past this limiting point, then spin the hub at least (1) full rotation. Rotating the hub is necessary to help seat the bearings.

B. Repeat the above step until you have tightened the fastener by 5 full rotations past its initial limiting position, rotating the hub between each turn of the fastener. Do NOT back off the axle fastener.

With hub/drum/wheels:

A. Tighten the fastener (5) full rotations past this limiting point while the wheel is rotating. Do NOT back off the axle fastener.

WARNING

Failure to follow this instruction could cause the wheel to come off and cause bodily injury.

TOOLS REQUIRED FOR INSTALLATION

AUTO-TORQ® PART NO.	TOOL SOCKET (3/4" DRIVE)
TRAILER AXLE FASTENER	
480-4723 / 480-4723-XR	120 mm 8-point OTC # 1961M
480-4743 / 480-4743-XR	3 7/8" 8-point OTC#1913

INSPECT THE INSTALLATION

STEP 1

Inspect keyway tang to ensure it does not contact the bottom of the keyway. If contact exists, immediately notify your STEMCO representative.

STEP 2

Upon completion of installation ensure the wheel-end rotates freely.

STEP 3

Measure and record endplay in the wheel-end with a dial indicator.

A. Endplay should be 0.000" for all units assembled with the Auto-Torq fastener. This is normal, as these wheel ends will be set in slight preload.

B. Endplay greater than 0.001" indicates an assembly is not seated properly. Remove the wheel end and inspect components prior to reassembly. Notify STEMCO if this persists.

C. The dial indicator should be attached to the hub with its magnetic base.

D. 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.

E. Grasp the wheel/hub assembly at the 3 o'clock and 9 o'clock positions.

F. Pull the wheel end assembly outward while oscillating the wheel approximately 5°.

G. While continuing to pull, stop oscillating and read the indicator. (Note position of dial indicator.)

H. Push the wheel assembly inward while oscillating. While continuing to push, stop oscillating at same position as it was before in the pull direction and read the indicator.

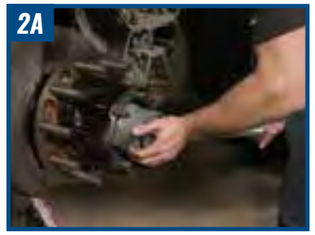
I. Read bearing end play as total indicator movement.

CAUTION

For wheel bearing adjustments on manually adjusted wheel ends, the optimum condition for measuring end play is with the tires/wheels and brake drum removed from the hub. Fleets or technicians that measure end play with the tires/ wheels and brake drum mounted to the hub should be aware that end play readings are more difficult to obtain and that all braking systems (drum or disc) should be backed off to the point that the brake shoes or pads do not create false end play readings.

ZIP-TORQ® INSTALLATION INSTRUCTIONS

1

2A


2B

3A

3B

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 2

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).

(Continued Next Page)

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	
400-4864	1/4 turn
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.

CAUTION
For wheel bearing adjustments on manually adjusted wheel ends, the optimum condition for measuring end play is with the tires/wheels and brake drum removed from the hub. Fleets or technicians that measure end play with the tires/ wheels and brake drum mounted to the hub should be aware that end play readings are more difficult to obtain and that all braking systems (drum or disc) should be backed off to the point that the brake shoes or pads do not create false end play readings.

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.

(Continued Next Page)

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	1/4 turn
448-4863	
448-4864	
448-4865	
STEERING SPINDLE NUT	
448-4837	1/3 turn
448-4840	
DRIVE AXLE NUT	
449-4904	
449-4973	1/8 turn
449-4974	
449-4975	

CAUTION

For wheel bearing adjustments on manually adjusted wheel ends, the optimum condition for measuring end play is with the tires/wheels and brake drum removed from the hub. Fleets or technicians that measure end play with the tires/ wheels and brake drum mounted to the hub should be aware that end play readings are more difficult to obtain and that all braking systems (drum or disc) should be backed off to the point that the brake shoes or pads do not create false end play readings.

PRO-TORQ®

HUB CAP INSTALLATION AND TROUBLESHOOTING

The hub cap endures constant physical abuse from the elements and internal factors that can affect its characteristics both visually and functionally. The TQMSM Manual will provide helpful information about installation and lubrication, as well as help in troubleshooting problems. Additionally, examples of potential hub cap failures are pictured in the Failure Analysis section.

Proper Hub Cap Installation Procedures

STEP 1

Check the mounting surface of the hub, making sure to clean off old gaskets and sealant. Also, check for any burrs or imperfections that might prevent a proper gasket seal.

STEP 2

Make sure all components are free of any dirt or grit.

STEP 3

Always install the hub cap with a new gasket.

STEP 4

Split washers are recommended to lock the flange bolts in place.

STEP 5

Initially hand tighten the hub cap (see bolt tightening sequence below) and finally torque to the recommended specification as noted on page 34.

STEP 6

For the threaded Pro-Par caps, lightly lubricate the threads and O-ring and install the hub cap. Refer to the torque specifications on Page 34 for the recommended torque value for threaded hub caps.

STEP 7

For oil applications, fill to the recommended level and re-check after the lube has had adequate time to establish its final level.

Window Kit Replacement Procedures

STEP 1

Remove the old window ring using a #8 Torx driver.

STEP 2

Thoroughly clean the hub cap and window ring leaving the window ledge free of oil and the mounting surface of the window ring clean and free of any old gasket material.

STEP 3

Place the new window gasket in the hub cap casting, and insert the new window with the window ring and window ring gasket in place.

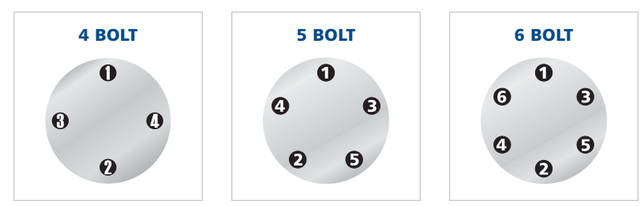
STEP 4

It is recommended that screws be replaced with new ones. Once the screws have been started and pulled down, begin tightening with a cross hatch pattern to evenly distribute the load. Refer to the Torque Specifications chart on Page 34 for the proper torque. It is recommended that hand tools be used for this procedure, as power tools may over-torque the screws and damage the threads.

STEP 5

The hub cap is now ready for installation.

RECOMMENDED BOLT TIGHTENING SEQUENCE



(Continued Next Page)

HUB CAP INSTALLATION AND TROUBLESHOOTING

FREQUENTLY ASKED QUESTIONS

Q. Should the hub cap be packed with grease?
A. A small amount of grease may be added to the hub cap before installation. Do not cover the vent mechanism with grease. For additional information on lubrication fill procedures for hub caps, refer to TMC publication RP 631.

Q. How tight should the flange bolts be?
A. Refer to the Hub Cap Torque Specifications below.

Q. Is it OK to use an impact tool to mount the hub cap?
A. It is suggested that hub cap bolts be tightened with hand tools to prevent possible warping or breakage of the hub cap flange. Refer to the Torque Specifications below for the recommended torque value.

Q. Is venting required for all applications?
A. It is suggested that the wheel assembly be vented to allow the hub to vent pressure and relieve vacuum when using oils and synthetic greases. Only with heavy packing grease will the wheel end properly operate without venting.

Q. Why do my hub caps have a build-up on the inside of the sight glass?
A. This build-up is a slow process caused by the additives present in some lubricants. Removal is impossible; however, replacement window kits are available.

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE SOURCES OR CAUSES
Water Contaminated/ Milky Oil	High pressure washing, flooded loading docks
Bulged/Melted Windows	Check for low lube level, high heat caused from improperly adjusted bearings, high heat caused from improperly adjusted brakes.
Leaking Gaskets	Improper torque of flange bolts, gouged mounting surface (hub cap flange/hub face), no gasket, reuse of gasket.
Leakage from Red Fill Plug	Make sure the oil level is not in an overfilled condition, and check the vent hole to make certain it is not plugged. High heat and resulting pressure may also contribute to leakage.

HUB CAP TORQ SPECS

THREADED HUB CAPS

Part No.	Torq
XXX-4075	100 ft/lbs
340-4975	50-60 ft/lbs
340-4976	50-60 ft/lbs
640-0003	50-60 ft/lbs

HUB CAP COMPONENTS

Part No.	Type	Torq
359-6032	#8 Torx Screw	18-23 in/lbs
359-5984	3/8" Mag Plug	5-9 ft/lbs
359-5985	3/8" Pipe Plug	5-9 ft/lbs

Hub Cap Mounting Bolts

Size	Torq	Size	Torq
1/4"	8-12 ft/lbs	5/8"	22-26 ft/lbs
5/16"	12-16 ft/lbs	3/4"	24-28 ft/lbs
3/8"	16-20 ft/lbs	7/8"	26-30 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

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.

DATATRAC® SVT INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

STEP 1
DOWNLOAD THE APP
Search for and download the STEMCO Fleet Manager App on your Android or Apple device.

STEP 2
PROGRAMMING THE UNIT
Launch the application by pressing the SVT Icon. You will then need to provide approval for the application to access Bluetooth and GPS and acknowledge the Terms of Use and Privacy Policy. Next, you will see the below screen. If you plan to use STEMCO Web Portal or Sync Server Solution then setup your account and login BEFORE programming your SVT. If you don't plan to use either of the STEMCO cloud solutions then you can Select **No Sync SVT Programmer.**

IMPORTANT: Before programming a DataTrac SVT, it is necessary to determine which of the three syncing options will be used for the fleet. The three options are:

WEB PORTAL – Intended for all size fleets that need one or more of the advanced features offered by this solution (see table on the right).

SYNC SERVER – Intended for single location smaller fleets that only need basic mileage collection using one or more cell phones. Basic user management is included along with fleet locked security for reprogrammable DataTrac SVT.

NO SYNC – Intended for those that only use the STEMCO Fleet manager application for programming ONLY (will not utilize the Sync Server or Web Portal cloud records syncing solutions); applications like programming Tamperproof DataTrac SVTs that will be installed on vehicles that are using a third party telematics solutions or for Reprogrammable "one off" applications where reprogramming security is not a concern.

STEP 3
Selecting **Web Portal Solution** will take you to this screen. You can either enter your login information or Request a Web Portal Account. If you request an account, you will be taken to a form that you will need to fill out.

STEP 4
Selecting **Sync Server Solution** will take you to this screen where you will see three options. To join an existing company, you will need an invite code and will need to fill out a form. To create a new company, you will be directed to a screen to fill out a form. Finally, you may also sign in to an existing company using your email address and password.

FEATURE	NO SYNC	SYNC SERVER SOLUTION	WEB PORTAL SOLUTION
Cell Phone App Compatabile	✓	✓	✓
Software Fees	Free	Free	Trial period followed by paid subscription
User Management Model	None	Basic, cell phone app based	Full, user management control on web portal
Security Model	None	Basic	Enhanced
Reprogrammable DataTrac SVT Security Model	None, ANYONE can reprogram DataTrac SVT	Basic, only fleet account app users can reprogram DataTrac SVT	Enhanced, only fleet account app users can reprogram DataTrac SVT
Multi-User Data Syncing	✓	✓	✓
User Permission Tri-Level Contols (Admin, Power, Base)	X	✓	✓
Multi-Terminal Support	X	X	✓
Gate Reader Compatible	X	X	✓
Historical Record Retention	X	X*	✓ (5 years)
Web Portal Interface	X	X	✓
Business System API Integration Available	X	X	✓
Fuel and Fluids Logging	X	X	✓

STEP 5
Once you have logged in to Sync Server, you can select the three bars on the top left corner to access the menu. From here you can select Manage User to invite users by entering their email address. They will be sent a code, which will be entered when they select **Join an existing company**.

NOTE: Manage user is only available in the Sync Server Solution.

STEP 6
You will see a list of nearby DataTrac® SVT™ devices. To identify the device you'd like to program, place the device horizontally with the screen facing up. This will move the device to the top of the list. Make sure your other devices are placed vertically. This will allow the horizontally aligned device to be first on the list.

NOTE: The serial number that shows up on the app is also laser marked on the front face of the DataTrac® SVT™. You will be able to identify the device that way as well.

STEP 7
After you have identified the device you'd like to program, click into the device and select **Program DataTrac® SVT™** at the bottom of the screen.

STEP 8
Then press **Program DataTrac® SVT™**.

NOTE: If you program more than one sensor choose a unique vehicle name.

STEP 9
You will then be taken to this screen while the programming occurs. This will take about 20 seconds.

STEP 10
After the programming is complete, you will be taken to the Vehicle Details screen. From here, you can press the back button to return to the main screen.

NOTE: The DataTrac SVT will show the REV ### programmed for about 2 seconds and then display the preset life Distance on the screen.

NOTE: The light sensor bubble has no functionality in the DataTrac SVT.

STEP 11
Once the device has been programmed, it will show up in the Paired Vehicles list.

STEP 12
If you want to change any of the programmable parameters, select the vehicle and press the "Reprogram DataTrac®" at the bottom on the screen.

DataTrac® SVT™

*Customer can email real-time snapshots of information to a csv spreadsheet compatible file.

WHEN IT COMES TO TRAINING
WE HOLD OURSELVES TO A HIGHER STANDARD

TQM℠ TOTAL QUALITY MAINTENANCE℠

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 TQM℠ 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 TQM℠ 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 Regional Sales Manager.

STEERING PRODUCTS TRAINING
- King pin replacement for QwikKit® and PlusKit®
- Complete break down and rebuild training
- Troubleshooting and inspection

STEMCO STEERING PRODUCTS™

WHEEL END PRODUCTS TRAINING
- Techniques to make seals last longer
- Single nut and double nut
- Adjustment procedures
- Proper fill rates
- Troubleshooting and inspection

STEMCO WHEEL END™

Proud Member of: TMC

STEMCO®

UNITED STATES
800-527-8492 | 903-758-9981
300 Industrial Drive
Longview, Texas 75602 | US

4641 Industrial Drive
Millington, Michigan 48746 | US

CANADA
877-232-9111 | 905-206-9700
1020 Lorimar Drive
Mississauga, ON L55 1R8 | Canada

MEXICO | 444-804-1736
Eje Central Sahop No 215, Zona Ind
San Luis Potosi SLP 78395 | Mexico

AUSTRALIA, NEW ZEALAND, PAPUA
011-61-2-9793-2599
2/198 Walters Road
Arndell Park NSW 2148 | Australia

ASIA
+86-21-6278-7253 | +86-189-1362-6168
101 of #5 Building, Hongqiao Jiahui,
No. 928 Shenghong Road, Minhang, Shanghai | China

STEMCO®

Making the Roadways Safer®

Learn more at **stemco.com**

STEMCO, Defender ESP, Discover XR, Grit Guard, Guardian, Voyager, Platinum Performance System, Sentinel, Defender, Pro-Torq, Zip-Torq, Hubodometer, DataTrac Pro, TQM and STEMCO Wheel End are all trademarks of STEMCO Products Inc.

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