

HUB SEAL

REFERENCE CHART



Guardian[®] HP

- Axle-Installed
- Long-Life/High-Performance
- Predominant at OE Trailer Manufacturers



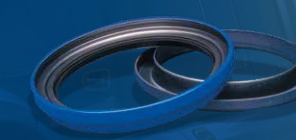
DISCOVER[®] XR

- Hub-Installed
- Long-Life
- High Performance Expectations



Voyager

- Hub-Installed
- Normal Replacement Intervals
- Regular Duty



GRITGUARD[®]

- Hub-Installed (with Axle Ring)
- Rugged and Durable
- Worn or Damaged Axles

Hub Seal Reference Chart

APPLICATION	GUARDIAN [®] GUARDIAN [®] HP	DISCOVER [®] XR	VOYAGER [®]	GRIT GUARD [®] STANDARD	GG/STANDARD COMPONENTS SEAL/RING	INNER BEARING	UNIVERSAL AXLE TOOL HEADS 2	UNIVERSAL HUB TOOL HEADS 3	BEARING GUIDE
19,000# Trailer Axle: Standard Forge, Dana, Meritor, Eaton	307-0713 9	N/A	373-0113	372-7098	2109/1507	663	555-5100	551-5313	570-0023
Pro-Par Trailer Axle: Fruehauf, Eaton P-22, Meritor TP, Dana	307-0723 9	373-0423	373-0123	372-7099	2023/1503	HM518445	555-5023	551-5401	570-0025
22,500# Trailer Axle: Meritor, Standard Forge, Dana, Eaton	307-0743 9	373-0443	373-0143	372-7097	2110/1504	HM218248	555-5039	551-5412	570-0026
20,000# Trailer Axle: Meritor, Shuler	N/A	N/A	373-0144	372-7095	2118/1510	665A	555-5069	551-5321	570-0024
12,000# Meritor Front Transit	N/A	N/A	N/A	N/A	2086/1013	6386 or 6389 6379	555-5060 555-5014	551-5420 18	570-0020 20
12,000 to 14,600# Front Axle: Meritor, Eaton, Ford, Freightliner, Kenworth, Western Star, Navistar, Peterbilt, Volvo GM	308-0836 9	383-0436	383-0136	382-8036	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
12,000# Mack Front Axle: Navistar Front Axle, FA 309, FA 329	N/A	N/A	383-0139 13	N/A	2039/1038 2181/1093	641 or HM212049 641 or HM212049 H715345	NONE REQ'D 555-5060 555-5070	551-5413 10 551-5419 14 551-5419 14	570-0020 570-0020 570-0021
9,000# Front Axle: Navistar FA 109 Cast Wheel 79 and up,	N/A	N/A	383-0156	N/A	N/A	641	555-5060	551-5344	570-0020
12,000# Front Axle: Navistar	N/A	N/A	383-0156	N/A	N/A	H715345	555-5070	551-5344	570-0021
16,000# Front Axle: Ford, Navistar, Mack, Meritor, White, Kenworth, Western Star, Peterbilt, Volvo GM	308-0864 9	383-0464	383-0164	382-8064	2137/1037	6461A	555-5007	551-5327	570-0022
6,000#, 7,500# Front Axle: Navistar 8,000# Steerable Lift Axle: Ridewell	308-0866	N/A	383-0166	382-8066	2164/1008	JM207049 JM205149	555-5088 555-5089	551-5423 17 551-5423 17	570-0036 570-0033
GMC F-120 1985 and up	N/A	N/A	383-0171	N/A	N/A	HM212047	555-5066	551-5403	570-0019
34,000#, 38,000# Drive Axle: Mack	309-0903 9	N/A	393-0103	392-9094	2129/1511	580 or 582	555-5072	551-5415 11	570-0023
44,000# Drive Axle: Mack	309-0904 9	N/A	393-0104	392-9112 392-9130	2213/1515 2213/1519	663 or HM516449, -C HM516449A	555-5072 555-5073	551-5414 12 551-5414 12	570-0023 570-0023
34,000# Drive Axle: Eaton, Ford, Navistar, White	309-0912 4	N/A	393-0112	392-9099 19	2102/1501	47685 or 47686 47678 or 5760	555-5031 555-5074	551-5416 15 551-5416 15	570-0023 570-0022
17,000# Single and 34,000# Tandem: GMC	N/A	N/A	N/A	Refer to above 392-9099 set	N/A	47686	555-5031	551-5424	570-0023
Meritor Drive Transit; Link Mfg. Steerable Lift Axle	N/A	N/A	393-0134	N/A	N/A	6580 6559 33287	555-5023 555-5072 555-5011	551-5421 16	570-0025 570-0023 N/A
15,000# Drive Axle, Ford, Meritor F-Series	309-0935	N/A	N/A	N/A	N/A	33287	555-5011	551-5353	N/A
Mack Drive Axle 50,000# and 60,000#	N/A	N/A	393-0148	392-9089	2097/1516	687 or 780	555-5004	551-5400	570-0032
Van Hool Bus	N/A	N/A	N/A	N/A	2115/1107	594A	555-5076	551-5356	570-0028
38,000#, 40,000# and 42,000# Tandem Drive Axles: Ford, Eaton, GMC, Mack, Navistar, White	N/A	N/A	N/A	392-9092 7 392-9096	2131/1508 2114/1508	598 595 598	555-5071 555-5072 555-5071	551-5363 551-5412 551-5412	570-0027 570-0023 570-0027
38,000# Drive Axle: Eaton, Meritor, White	N/A	N/A	N/A	392-9087	2162/1502	683XA or 683 681A	555-5076 555-5071	551-5333 551-5333	570-0028 570-0027
38,000#, 46,000# Tandem Axles: Eaton, Ford, Freightliner, Kenworth, Western Star, Peterbilt, Meritor, Navistar, Volvo GM	309-0973 9	393-0473	393-0173	392-9131 8	2106/1525	594 or 594A 598 or 598A	555-5076 555-5071	551-5320 551-5320	570-0028 570-0027

1 SS4 Seal
 2 Use 555 Series Tool Heads with Universal Tool Body 555-0001. The Axle Tool Heads Install the Standard/Grit Guard Rings & Guardian/SS4 Seals.
 3 Use 551 Series Tool Heads with new Universal Tool Handle 551-0001. The Hub Tool Installs the Standard Seal, Voyager and Discover Seals.
 4 Use with 5.687" Bore Only
 5 Use with 5.500" Bore Only
 6 Does not fit Mack Applications
 7 Fits Mack Application Only
 8 Use with Wabco ABS
 9 HP Design
 10 Use 551-5395 for 320-2039 seal
 11 Use 551-5393 for 320-2129 seal
 12 Use 551-5364 for 320-2213 seal
 13 383-8139 includes 310-1132 shoulder bushing
 14 Use 551-5349 for 320-2181 seal
 15 Use 551-5318 for 320-2102 seal
 16 Use 551-5356 for 320-2061 seal
 17 Use 551-5366 for 320-2164 seal
 18 Use 551-5311 for 2086 seal
 19 Does not fit 5760 Inner Bearing
 20 Does not fit 6379 Inner Bearing

Hub Cap Crossover

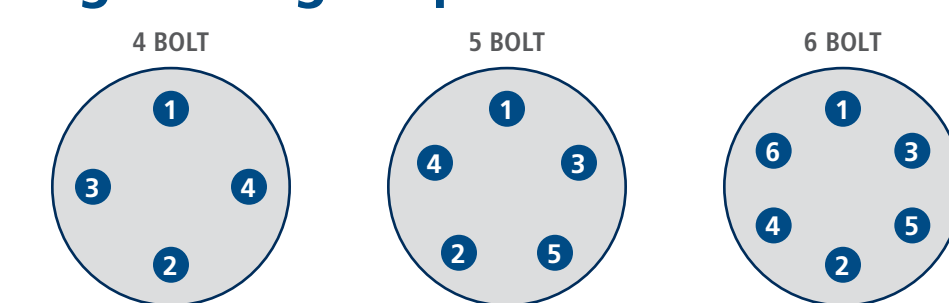
COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #	COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #	COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #	COMPETITIVE PART #	COMPETITOR'S NAME	STEMCO PART #
1282	SKF	340-4975	1843	SKF	343-4095	815214	Eaton	343-4195	DG-6FL	Dual Dynamics	340-4249
1311	SKF	360-4024	1890	SKF	343-4249	821338	Eaton	343-4009	DG-6FP	Dual Dynamics	347-4009
1343	SKF	352-4009	340-009	National	340-4009	821907	Eaton	343-4009	DG-6FPC	Dual Dynamics	340-4024
1399	SKF	352-4195	340-009BK	National	300-4009	C40-4009	SKF	340-4009	DG-6P	Dual Dynamics	340-4009
1612	SKF	363-4024	340-975	National	340-4975	C40-4009BP	SKF	300-4009	DG-6PS	Dual Dynamics	343-4009
1642	SKF	343-4013	340-975BK	National	340-4975	C40-4975	SKF	340-4975	DG-6PSC	Dual Dynamics	340-4046
1643	SKF	363-4009	343-009	National	343-4009	C40-4975BP	SKF	340-4975	DG-7.5P	Dual Dynamics	340-4195
1682	SKF	343-4075	343-009BK	National	303-4009	C40-5097BP	SKF	340-5097	DG-7.5PS	Dual Dynamics	343-4195
1696	SKF	363-4195	506085	Eaton	343-4024	C43-4009	SKF	343-4009	DG-P	Dual Dynamics	340-4075
1703	SKF	343-4249	506089	Eaton	343-4249	C43-4009BP	SKF	303-4009	DG-PS	Dual Dynamics	343-4075
1711	SKF	343-4024	64009	TriSeal	343-4009	C43-4013	SKF	343-4013	DG-PSC	Dual Dynamics	343-4249
1742	SKF	343-4013	64009H	TriSeal	347-4009	C43-4024	SKF	343-4024	H075	National	343-4075
1743	SKF	363-4009	64013	TriSeal	343-4013	C43-4075	SKF	343-4075	HU009A	National	343-4009
1743	SKF	343-4046	64024	TriSeal	343-4024	C43-4095	SKF	343-4095	HU009A	National	343-4046
1743	SKF	343-4095	64046	TriSeal	343-4046	C43-4098	SKF	343-4098	HU013A	National	343-4013
1753	SKF	343-4249	64046	TriSeal	343-4095	C43-4249	SKF	343-4249	HU024A	National	343-4024
1788	SKF	343-4249	64046	TriSeal	343-4249	DG-5/6P	Dual Dynamics	340-4013	HU110A	National	343-4095
1800	SKF	347-4009	64075A	TriSeal	343-4075	DG-5/6PS	Dual Dynamics	343-4013	HU110A	National	343-4249
1811	SKF	343-4024	64075G	TriSeal	342-4075	DG-6F	Dual Dynamics	340-4046			
1842	SKF	343-4013	64075P	TriSeal	340-4975	DG-6F4.5	Dual Dynamics	340-4024			
1843	SKF	343-4009	64249	TriSeal	343-4249	DG-6F4.5P	Dual Dynamics	343-4013			
1843	SKF	343-4046	812928	Eaton	343-4095	DG-6F4.5PC	Dual Dynamics	343-4024			

Popular Hub Cap Options With Bolt Specifications



STEMCO BASE PART NUMBER	STANDARD HUB CAP NO SIDE FILL	DIRT EXCLUSION GREASE	STANDARD HUB CAP SIDE FILL	STANDARD HUB CAP HUB WINDOW	SENTINEL [®] HUB CAP	SENTINEL [®] HUB CAP GREASE	SOLID ALUMINUM GREASE/VENTED	INTEGRATED SENTINEL [®] OIL	INTEGRATED SENTINEL [®] GREASE	BOLT CIRCLE	BOLT SIZE	NUMBER OF BOLTS
4009	X	X	X	X	X	X	X	X	X	5-1/2	5/16	6
4013	X	X	X	X	X	X	X	X	X	5-1/2	5/16	5
4024	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	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							5-1/2	5/16	6
4372	X		X							5-1/2	5/16	6

Recommended Bolt Tightening Sequence



Torque Specifications

HUB CAP MOUNTING BOLTS			
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	6MM	8-12 ft/lbs
7/16"	18-22 ft/lbs	8.5MM	12-16 ft/lbs

HUB CAP COMPONENTS

359-6032	#8 Torx Screw	25 in/lbs max.
359-5984	3/8" Mag Plug	5-9 ft/lbs max.
359-5985	3/8" Pipe Plug	5-9 ft/lbs max.

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

STEMCO recommends using a grade 5 or higher fastener with a split lock washer.

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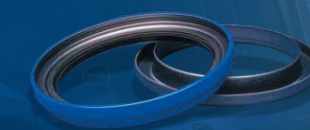
DISCOVER[®] XR

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- Long-Life
- High Performance Expectations



Voyager

- Hub-Installed
- Normal Replacement Intervals
- Regular Duty



GRITGUARD[®]

- Hub-Installed (with Axle Ring)
- Rugged and Durable
- Worn or Damaged Axles

SKF to STEMCO

SKF	GUARDIAN HP HUB-SEAL	DISCOVER XR	VOYAGER	GRIT GUARD/STD. WHEEL SET
28758	308-0866		383-0166	382-8066
31281				372-7049
34386	309-0935			
34387	309-0935			
34972				
34975				
34999				392-9036
35000				392-9036
35058	308-0836	383-0436	383-0136	382-8036
35059	308-0836	383-0436	383-0136	382-8036
35066	308-0836	383-0436	383-0136	382-8036
35102	308-0836	383-0436	383-0136	382-8036
36357			383-0171	
36358			383-0171	
36365			383-0171	
36365/455037				
38747	309-0912			392-9099
38748				392-9099
38750				392-9099
38776	309-0912	393-0112		392-9099
38779	309-0912	393-0112		392-9099
38780	309-0912	393-0112		392-9099
38783	309-0912	393-0112		392-9099
39977/455031			383-0139*	
39979			393-0139*	
39990			383-0139*	
39988/455031			383-0139*	
40129	307-0713		373-0113	372-7098
40133	307-0713		373-0113	372-7098
40136	307-0713		373-0113	372-7098
40146	307-0713		373-0113	372-7098
42622	307-0723	373-0423	373-0123	372-7099
42623	307-0723	373-0423	373-0123	372-7099
42624				372-7091
42627	307-0723	373-0423	373-0123	372-7099
42631	307-0723	373-0423	373-0123	372-7099
42671	309-0904		393-0104	392-9112
42672	309-0904		393-0104	392-9112

SKF	GUARDIAN HP HUB-SEAL	DISCOVER XR	VOYAGER	GRIT GUARD/STD. WHEEL SET
42673	309-0904		393-0104	392-9112
43752			373-0144	372-7095
43753			373-0144	372-7095
43754			373-0144	372-7095
43761	308-0864	383-0464	383-0164	382-8064
43763	308-0864	383-0464	383-0164	382-8064
43764	308-0864	383-0464	383-0164	382-8064
43860				392-9096
43861				392-9096
43865				392-9092
43875	309-0973 ¹	393-0473	393-0173	392-9131 ¹
45097	309-0903		393-0103	392-9094
45093	309-0903		393-0103	392-9094
45099	309-0903		393-0103	392-9094
45102			383-0156 ²	
45103			383-0156	
45108	309-0903		393-0103	392-9094
45152 ³	309-0973	393-0473	393-0173	392-9131
45162/455030				372-7015
46300	307-0743	373-0443	373-0143	372-7097
46304	307-0743	373-0443	373-0143	372-7097
46305	307-0743	373-0443	373-0143	372-7097
46308	307-0743	373-0443	373-0143	372-7097
46390/450208				372-7022
47691	309-0973	393-0473	393-0173	392-9098
47692	309-0973	373-0443	393-0173	392-9098
47693	309-0973	373-0443	393-0173	392-9131
47695	309-0973	373-0443	393-0173	392-9131
47697	309-0973	373-0443	393-0173	392-9131
47699				392-9087
48690			393-0134	
48691			393-0134	
48792				320-1028
52658			393-0148	392-9089
52664			393-0148	392-9089
55177				392-9053

National to STEMCO

NATIONAL	GUARDIAN HP HUB-SEAL	DISCOVER XR	VOYAGER	GRIT GUARD/STD. WHEEL SET
370001A (380001A)	308-0836	383-0436	383-0136	382-8036
370003A (380003A)	309-0973	393-0473	393-0173	392-9131
370005A				320-2115 ⁴
370006A				392-9087
370011A			383-0171	
370011A/AR4				
370019A				392-9092 (Mack)
370019A				392-9096
370022A (380022A)	309-0903		393-0103	392-9094
370023A (380023A)	309-0912		393-0112	392-9099
370024A				392-9099
370025A (380025A)	307-0743	373-0443	373-0143	372-7097
370026A/AR2				372-7022
370031A (380031A)	309-0904		393-0104	392-9112
370033A/AR12			383-0139*	382-8039
370034A	309-0973	393-0473	393-0173	392-9131
370036A (380036A) ^T	307-0713		373-0113	372-7098
370037A			373-0144	372-7095

NATIONAL	GUARDIAN HP HUB-SEAL	DISCOVER XR	VOYAGER	GRIT GUARD/STD. WHEEL SET
370047A	309-0935			
370048A (380048A)	308-0864	383-0464	383-0164	382-8064
370065A (380065A)	307-0723	373-0423	373-0123	372-7099
370069A			393-0148	392-9089
370086A	309-0973	393-0473	393-0173	392-9131
370107A				372-7091
370120A/AR23				392-9053
370131A (380131A)			383-0156 ²	
370132A				
370150A	308-0866		383-0166	382-8066
370165A				392-9099
370169A				392-9036
370182A	308-0864	383-0464	383-0164	382-8064
370192A				372-7015
370195A			393-0134	
370198A/AR25			383-0139*	
370338A ^T				372-7095
370349A ^D	307-0713		373-0113	372-7098
376590A	307-0723	373-0423	373-0123	372-7099
386590A				

Triseal to STEMCO

TRISEAL	GUARDIAN HP HUB-SEAL	DISCOVER XR	VOYAGER	GRIT GUARD/STD. WHEEL SET
65024U				392-9099
65030U			393-0148	392-9089
65056U	309-0973	393-0473	393-0173	392-9131
65060U	307-0743	373-0443	373-0143	372-7097
65071U	309-0904		393-0104	392-9112
65078U			383-0156	
65092U	308-0864	383-0464	383-0164	382-8064
65111U	309-0935			
65152U	309-0912		393-0112	
65184U				392-9092
65261U	307-0713		373-0113	392-7098
65262U	307-0723	373-0423	373-0123	372-7099
65263U	308-0836	383-0436	383-0136	382-8036
65270U	309-0903		393-0103	392-9094
65283U				392-9087
65294U			383-0139	
65298U				372-7095
69510	307-0713		373-0113	372-7098
69512				372-7015
69520	307-0723	373-0423	373-0123	372-7099
69539				372-7049
69541 (70541)				372-7091
69594				372-7022
69596 (70596)	307-0723	373-0423	373-0123	372-7099

TRISEAL	GUARDIAN HP HUB-SEAL	DISCOVER XR	VOYAGER	GRIT GUARD/STD. WHEEL SET
69597 (70597)	307-0713		373-0113	372-7098
69598 (70598)	307-0743	373-0443	373-0143	372-7097
69599 (70599)			373-0144	372-7095
69628			383-0139	
69642				382-8063
69645	308-0866			382-8066
69689				
69690				382-8028
69696			383-0156	
69697	308-0864	383-0464	383-0164	382-8064
69699	308-0836	383-0436	383-0136	382-8036
69781 (70781)			393-0148	392-9089
69785	309-0935			
69786				392-9036
69788 (70788)	309-0904		393-0104	392-9112
69789 (70789)				392-9087
69792				392-9092
69794 (70794)	309-0912		393-0112	392-9099
69796 (70796)	309-0903		393-0103	392-9094
69797 (70797)				392-9096
69799 (70799)	309-0973	393-0473	393-0173	392-9131

Outrunner to STEMCO

OUTRUNNER	GUARDIAN HP HUB-SEAL	DISCOVER XR	VOYAGER	GRIT GUARD/STD. WHEEL SET
301	307-0713		373-0113	372-7098
302	307-0723	373-0423	373-0123	372-7099
303	307-0743	373-0443	373-0143	372-7097
304	309-0973	393-0473	393-0173	392-9131
305	308-0836	383-0436	383-0136	382-8036
306	309-0912		393-0112	392-9099
847	308-0836	383-0436	383-0136	382-8036
848	309-0912			392-9099
849	309-0912		393-0112	392-9099
850	307-0713		373-0113	372-7098
851	307-0723	373-0423	373-0123	372-7099
852	309-0904		393-0104	392-9112 ¹
853			373-0144	372-7095
854				392-9092

OUTRUNNER	GUARDIAN HP HUB-SEAL	DISCOVER XR	VOYAGER	GRIT GUARD/STD. WHEEL SET
856	309-0903		393-0103	392-9094
857			383-0156	
859	307-0743	373-0443	373-0143	372-7097
861	309-0973	393-0473	393-0173	392-9131
863	308-0864	383-0464	383-0164	382-8064
88319	309-0973	393-0473	393-0173	392-9131
UZ0301E0	307-0713		373-0113	392-7098
UZ0302E0	307-0723	373-0423	373-0123	372-7099
UZ0303E0	307-0743	373-0443	373-0143	372-7097
UZ0304E0	309-0973	393-0473	393-0173	392-9131
UZ0305E0	308-0836	383-0436	383-0136	382-8036
UZ0306E0	309-0912		393-0112	392-9099

D Drive Application
T Trailer Application
F Front Application

¹ With 364-6402
² For IHC FA-109 1979 and up with spoke wheel use 308-0855 Guardian Set

³ With 364-6435
⁴ Ring no longer available

*The kit part number is 383-8139 and contains the steel spindle donut with the correct O-ring. The O-ring is what typically leaks on this application and there are several sizes of the donuts from various manufactures.