

# Heavy Duty Quick Reference Guide



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# Brake & Wheel End

## Haldex Friction Brake Hardware (HFF)

SKU#	Product Description	Width	FMSI #	Shoe I.D.	Hardware Kit	Includes Kit	Core Group	Image
15" Eaton								
GR1308EG	Relined Gripper Kit – Boxed	4"	1308	E	Included	Yes	1308E	
GR1308ER	Relined Shoe	4"	1308	E	CQ66917	No	1308E	
15" Eaton "ES"								
GR1443EG	Relined Gripper Kit – Boxed	4"	1443	E	Included	Yes	1443TD	
GR1443ER	Relined Shoe	4"	1443	E	CQ66917	No	1443TD	
15" Meritor "Q" Early Style								
GR1308QG	Relined Gripper Kit – Boxed	4"	1308	Q	Included	Yes	1308TQ	
GR1308QR	Relined Shoe	4"	1308	Q	CQ69001	No	1308TQ	
15" Meritor "Q" Late Style								
GR1308Q2R	Relined Shoe	4"	1308	Q2	CQ69001	No	1308TQN	
15" Meritor "T"								
GR1308TG	Relined Gripper Kit – Boxed	4"	1308	T	Included	Yes	1308585	
GR1308TR	Relined Shoe	4"	1308	T	CQ66919	No	1308585	
15" x 4" Meritor "Q" Plus								
GC4702QG	Relined Gripper Kit – Boxed	4"	4702	Q	Included	Yes	4702	
GR4702QG	Relined Gripper Kit – Boxed	4"	4702	Q	Included	Yes	4702	
GR4702QR	Relined Shoe	4"	4702	Q	CQ65642	No	4702	
16–1/2" x 7" Eaton "ES"								
GG4709ESG	Relined Gripper Kit – Boxed	7"	4709	ES	Included	Yes	4709	
GG4709ESR	Relined Shoe	7"	4709	ES	CQ65481	No	4709	
GN4709ESG	Relined Gripper Kit – Boxed	7"	4709	ES	Included	Yes	4709	
GN4709ESR	Relined Shoe	7"	4709	ES	CQ65481	No	4709	
GR4709ESG	Relined Gripper Kit – Boxed	7"	4709	ES	Included	Yes	4709	
GR4709ESR	Relined Shoe	7"	4709	ES	CQ65481	No	4709	
16–1/2" x 6" Eaton "ESII"								
GR4725ES2G	Relined Gripper Kit –Boxed	6"	4725	ES2	CQ65445	Yes	4725NS	
16–1/2" x 7" Eaton "ESII"								
GC4709ES2G	Relined Gripper Kit – Boxed	7"	4709	ES2	Included	Yes	4709NS	
GG4709ES2R	Relined Shoe	7"	4709	ES2	CQ65477	No	4709NS	
GN4709ES2G	Relined Gripper Kit – Boxed	7"	4709	ES2	Included	Yes	4709NS	
GN4709ES2R	Relined Shoe	7"	4709	ES2	CQ65477	No	4709NS	
GR4709ES2G	Relined Gripper Kit – Boxed	7"	4709	ES2	Included	Yes	4709NS	
GR4709ES2R	Relined Shoe	7"	4709	ES2	CQ65477	No	4709NS	
GG4709ES2G	Relined Gripper Kit Boxed	7"	4709	ES2	Included	Yes	4709NS	



## Haldex Friction Brake Hardware (HFF)

SKU#	Product Description	Width	FMSI #	Shoe I.D.	Hardware Kit	Includes Kit	Core Group	Image
16-1/2" x 8-5/8" Eaton "ESII"								
GG4726ES2R	Relined Shoe	8-5/8"	4726	ES2	CQ65477	No	4726NS	
GR4726ES2G	Relined Gripper Kit – Boxed	8-5/8"	4726	ES2	Included	Yes	4726NS	
GR4726ES2R	Relined Shoe	8-5/8"	4726	ES2	CQ65477	No	4726NS	
16-1/2" x 7" Eaton Single Anchor Pin Tractor and Trailer (Low Mount) New Style								
GC4311EG	Relined Gripper Kit – Boxed	7"	4311	E	Included	Yes	4311NS	
GC4311ER	Relined Shoe	7"	4311	E	CQ67319	No	4311NS	
GG4311EG	Relined Gripper Kit – Boxed	7"	4311	E	Included	Yes	4311NS	
GG4311ER	Relined Shoe	7"	4311	E	CQ67319	No	4311NS	
GN4311EG	Relined Gripper Kit – Boxed	7"	4311	E	Included	Yes	4311NS	
GN4311ER	Relined Shoe	7"	4311	E	CQ67319	No	4311NS	
GR4311EG	Relined Gripper Kit – Boxed	7"	4311	E	Included	Yes	4311NS	
GR4311ER	Relined Shoe	7"	4311	E	CQ67319	No	4311NS	
16-1/2" x 7" Fruehauf "XEM3"								
GC4515X3G	Relined Gripper Kit – Boxed	7"	4515	X3	Included	Yes	4515X3	
GC4515X3R	Relined Shoe	7"	4515	X3	CQ66914	No	4515X3	
GG4515X3G	Relined Gripper Kit – Boxed	7"	4515	X3	Included	Yes	4515X3	
GG4515X3R	Relined Shoe	7"	4515	X3	CQ66914	No	4515X3	
GN4515X3G	Relined Gripper Kit – Boxed	7"	4515	X3	Included	Yes	4515X3	
GN4515X3R	Relined Shoe	7"	4515	X3	CQ66914	No	4515X3	
GR4515X3G	Relined Gripper Kit – Boxed	7"	4515	X3	Included	Yes	4515X3	
GR4515X3R	Relined Shoe	7"	4515	X3	CQ66914	No	4515X3	
16-1/2" x 7" Meritor "Q" Current Design								
GC4515QG	Relined Gripper Kit – Boxed	7"	4515	Q	Included	Yes	4515TQN	
GG4515QG	Relined Gripper Kit – Boxed	7"	4515	Q	Included	Yes	4515TQN	
GG4515QR	Relined Shoe	7"	4515	Q	CQ66867	No	4515TQN	
GN4515QG	Relined Gripper Kit – Boxed	7"	4515	Q	Included	Yes	4515TQN	
GN4515QR	Relined Shoe	7"	4515	Q	CQ66867	No	4515TQN	
GR4515QG	Relined Gripper Kit – Boxed	7"	4515	Q	Included	Yes	4515TQN	
GR4515QR	Relined Shoe	7"	4515	Q	CQ66867	No	4515TQN	
16-1/2" x 7" Meritor "Q" Plus								
GC4707QG	Relined Gripper Kit – Boxed	7"	4707	Q	Included	Yes	4707	
GG4707QG	Relined Gripper Kit – Boxed	7"	4707	Q	Included	Yes	4707	
GG4707QR	Relined Shoe	7"	4707	Q	CQ66867	No	4707	
GN4707QG	Relined Gripper Kit – Boxed	7"	4707	Q	Included	Yes	4707	
GN4707QR	Relined Shoe	7"	4707	Q	CQ66867	No	4707	
GR4707QG	Relined Gripper Kit – Boxed	7"	4707	Q	Included	Yes	4707	
GR4707QR	Relined Shoe	7"	4707	Q	CQ66867	No	4707	

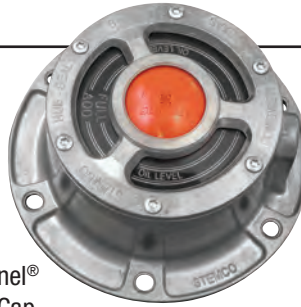
# Brake & Wheel End

## Hub Caps (SWS)

STEMCO's extensive line of hub caps provide application specific technology designed to eliminate contaminants and extend wheel end life.

Part Number	Description	Bolt Circle	Bolt Size	Number of Bolts
340-4009	Hub Cap	5-1/2"	5/16"	6
340-4013	Hub Cap	5-1/2"	5/16"	5
340-4024	Hub Cap	4-1/2"	5/16"	6
340-4075	Hub Cap	6-1/4" X 8 UN (M)		
340-4186	Hub Cap	5"	5/16"	4
340-4249	Hub Cap	5-1/2"	5/16"	6
340-4975	Lexan Hub cap	6-1/4" X 8 UN (M)		
340-5096	Stamped steel grease hub cap	5-1/2"	5/16"	6
342-4195	Grease hub cap	6-3/4"	5/16"	6
343-4009	Hub Cap w/ pipe plug	5-1/8"	5/16"	6
343-4013	Hub Cap w/ pipe plug	5-1/2"	5/16"	5
343-4024	Hub Cap w/ pipe plug	4-1/2"	5/16"	6
343-4034	Hub Cap w/ pipe plug	6-5/8"	1/4"	6
343-4042	Hub Cap w/ pipe plug	5-1/8"	5/16"	6

Sentinel®  
Hub Cap



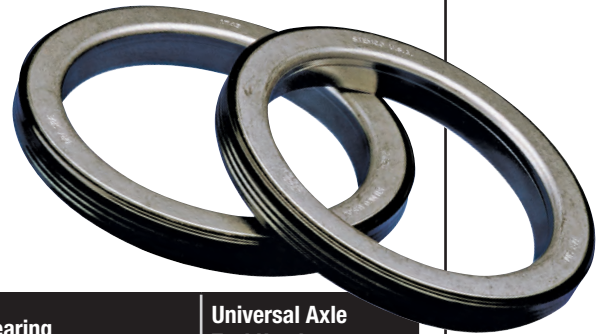
Hub Cap w/  
pipe plug



Part Number	Description	Bolt Circle	Bolt Size	Number of Bolts
343-4046	Hub Cap w/ pipe plug	5-1/2"	5/16"	6
343-4066	Hub Cap w/ pipe plug	5-1/8"	5/16"	6
343-4095	Hub Cap w/ pipe plug	5-1/8"	5/16"	6
343-4098	Hub Cap w/ pipe plug	5-1/2"	5/16"	6
343-4122	Hub Cap w/ pipe plug	5-1/2"	5/16"	6
343-4195	Hub Cap w/ pipe plug	6-3/4"	5/16"	6
343-4249	Hub Cap w/ pipe plug	5-1/2"	5/16"	6
348-4009	Sentinel® Hub Cap	5-1/8"	5/16"	6

## Seals (SWS)

Guardian® HP has been developed for extra protection and greater sealing with it's high performance sealing lip and superior contamination exclusion. The rubber outer diameter allows for faster hub cleaning with less corrosion damage to the hub. Installation right on the axle instead of the hub bore assures positive alignment every time with virtually error-proof installation.



Part Number	CR #	Application	Inner Bearing	Universal Axle Tool Head
307-0713	39423	19,000 # Trailer Axle – Standard Forge, Dana, Meritor, Eaton	663	555-5100
307-0723	42622	Pro-Par Trailer Axle – Fruehauf, Eaton P-22, Meritor TP, Dana	HM518445	555-5023
307-0743	46305	25,000 # Trailer Axle – Meritor, Standard Forge, Dana, Eaton	HM218248	555-5039
308-0836	35066	12,000 # Front Axle – Meritor, Eaton, Ford, Freightliner, Kenworth, Western Star, Navistar Peterbilt Volvo GM	39581, HM212044, HM212049-X, HM212047	555-5062, 555-5061 555-5098, 555-5066
308-0864	40139	16,000 # Front Axle – Ford, Navistar, Mack, Meritor, White, Kenworth, Volvo GM, Western Star, Peterbilt	6461 A	555-5007
309-0904	42672	44,000 # Drive Axle – Mack	663, HM516449-C, HM516449-A	555-5072, 555-5073
309-0912	38747	34,000 # Drive Axle – Eaton, Ford, Navistar, White	47685, 47686, 47678, 5760	555-5031, 555-5074
309-0960	48001	38,000 # Drive Axle – Mack, GMC, Eaton, Meritor	598-A, 594-A	555-5071, 555-5076
309-0973	47697	38,000# 46,000# Tandem Axles – Eaton, Ford, Freightliner, Kenworth, Western Star, Peterbilt, Meritor, Navistar, Volvo GM	594-A, 598-A	555-5076, 555-5071

## National Wheel End SEAL (SLS) "Red" 37 Series

- Dependable, abrasion resistant nitrile with spring-loaded main lip for positive sealing with reduced shaft interference
- Unitized construction provides greater structural integrity, easier installation and main lip protection
- Unique rubber I.D. and O.D. includes patented SURE-LOCK® ribs that prevent bore contamination and shaft leaks

## "Gold" 38 Series

- Proprietary PTFE compound endures extreme temperatures, compatible with mixed lubricants and has the lowest friction co-efficient of all seal materials
- Patented, lay-down bi-directional sealing lip provides a greater sealing surface especially during wheel end movement
- Triple barrier contamination system, provides the ultimate in dirt exclusion



*For our full line coverage, please see our CARQUEST Bearing and SEAL Application Guide Form Number CQ502W.*

Part Number	Type	Shaft Size	Housing Bore	Outer Diameter	Width	Material	Series
370001A	OIL BATH SEAL	3.5	4.842	4.848	0.925	Nitrile	370000
370003A	OIL BATH SEAL	4.765	6.311	6.318	1.078	Nitrile	370000
370014A	OIL BATH SEAL	3.125	4.5	4.506	0.605	Nitrile	370000
370018A	OIL BATH SEAL	3.25	4.5	4.506	0.605	Nitrile	370000
370022A	OIL BATH SEAL	4.5	5.75	5.756	0.96	Nitrile	370000
370023A	OIL BATH SEAL	3.875	5.69	5.706	0.875	Nitrile	370000
370024A	OIL BATH SEAL	3.875	5.501	5.515	0.875	Nitrile	370000
370025A	OIL BATH SEAL	4.625	5.999	6.008	0.84	Nitrile	370000
370036A	OIL BATH SEAL	4	5.757	5.772	0.93	Nitrile	370000
370047A	OIL BATH SEAL	3.437	4.755	4.761	0.605	Nitrile	370000
370048A	OIL BATH SEAL	4.375	5.905	5.911	1	Nitrile	370000
370065A	OIL BATH SEAL	4.25	6.008	6.022	1	Nitrile	370000
370150A	OIL BATH SEAL	2.875	3.875	3.889	0.5	Nitrile	370000
370219A	OIL BATH SEAL	2.25	3.372	3.377	0.475	Nitrile	370000
370247A	OIL BATH SEAL	2.955	3.875	3.882	0.488	Fluoroelastomers	370000
380003A	OIL BATH SEAL-TEFLON	4.765	6.311	6.318	1.132	P.T.F.E.	380000
380001A	OIL BATH SEAL-TEFLON	3.5	4.842	4.847	0.91	P.T.F.E.	380000
380023A	OIL BATH SEAL-TEFLON	3.875	5.69	5.706	0.77	P.T.F.E.	380000
380025A	OIL BATH SEAL-TEFLON	4.625	5.999	6.005	0.937	P.T.F.E.	380000
380031A	OIL BATH SEAL-TEFLON	4.25	6.25	6.256	1.188	P.T.F.E.	380000
380036A	OIL BATH SEAL-TEFLON	4	5.757	5.772	0.93	P.T.F.E.	380000
380048A	OIL BATH SEAL	4.375	5.905	5.918	1.015	P.T.F.E.	380000
380065A	OIL BATH SEAL-TEFLON	4.25	6	6.008	1	P.T.F.E.	380000

# Brake & Wheel End

## CARQUEST Heavy Duty Bearings (BGS)

- Full Line Coverage
- OEM designed and manufactured
- Crowned raceways and rollers
  - Allows even load distribution with misalignment
- Superior dimensional and surface finish
  - Low vibration



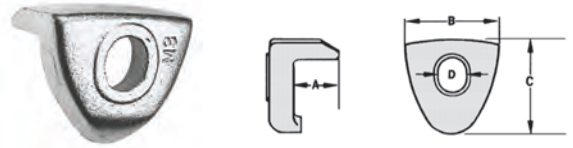
For our full line coverage, please see our CARQUEST Bearing and Seals Application Guide Form Number CQ502W.

Part Number	Type	Bore	Outer Diameter	Length	Width	Radius	Series
567	Taper Bearing Cone	2.875	—	1.424	—	0.14	565
572	Taper Bearing Cup	—	5.5115	1.125	—	0.125	575
580	Taper Bearing Cone	3.25	—	1.4212	—	0.14	575
582	Taper Bearing Cone	3.25	—	1.4212	—	0.265	575
663	Taper Bearing Cone	3.25	—	1.625	—	0.14	655
3720	Wheel Race	—	3.6718	0.9375	—	0.125	3700
3782	Taper Bearing Cone	1.75	—	1.193	—	0.14	3700
3994	Taper Bearing Cone	2.625	—	1.185	—	0.218	3900
28622	Wheel Race	—	3.8437	0.7656	—	0.031	28600
28682	Wheel Bearing	2.25	—	0.9688	—	0.14	28600
39520	Wheel Race	—	4.4375	0.9375	—	0.125	39500
39590	Wheel Bearing	2.625	—	1.1875	—	0.14	39500
45220	Wheel Race	—	4.125	0.9375	—	0.125	45200
47620	Taper Bearing Cup	—	5.25	1.0313	—	0.125	47600
47686	Taper Bearing Cone	3.25	—	1.3125	—	0.14	47600
592-A	Taper Bearing Cup	—	6	1.1875	—	0.125	595
594-A	Taper Bearing Cone	3.75	—	1.43	—	0.203	595
HB-88508	Ball Bearing	1.5748	2	—	6.624	6.624 (Inner) / 2.479 (Outer)	HB
HM212011	Taper Bearing Cup	—	4.813	1.17	—	0.13	HM212000
HM212049	Taper Bearing Cone	2.625	—	1.51	—	0.14	HM212000
HM218210	Taper Bearing Cup	—	5.786	1.28	—	0.14	HM218000
HM218248	Taper Bearing Cone	3.542	—	1.575	—	0.28	HM218000
HM518445	Taper Bearing Cone	3.5	—	1.5625	—	0.14	HM518400



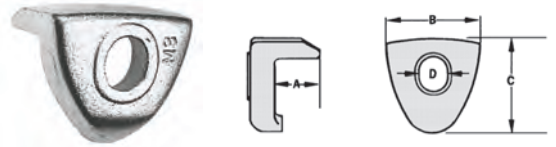
### Webb Wheel Clamps - Spoke Wheels (WAP)

Part Number	Replaces	A	B	C	D	Spacer Width
WA15-5000	WEBB 16123	1 1/8"	2 7/8"	2 1/2"	3/4"	4"
WA15-5001	WEBB 16129	1 1/2"	2 7/8"	2 1/2"	3/4"	3 5/8"



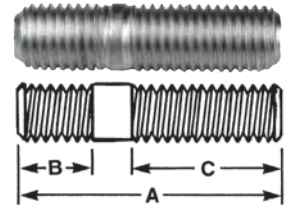
### Dayton Wheel Clamps - Dayton "F" Style Wheel Clamps - For 3/4" Wheel Studs (WAP)

Part Number	Dayton	NWRA	A	B	C	D	Spacer Width
WA15-5002	09-623517	W-97	1 3/4"	2 7/8"	2 1/2"	3/4"	3 3/8"



### Dayton Wheel Studs (WAP)

Part Number	Replaces Gunite Dayton	NWRA	Diameter Thread	A	B	C	Use Nut Number
WA07-5150	08-006654	B-601	5/8"-11	2 3/4"	1"	1 1/2"	M-43
WA07-5004	08-005715	B-602	3/4" - 10	2 13/16"	1 1/16"	1 11/16"	M-45



### Dayton Style - Chamfered - Spoke Wheel Nuts (WAP)

Part Number	Dayton	Erie	Replaces Gunite Webb NWRA	Thread	Hex
WA07-5152	08-005149	5270	WP-2 74611	N-26 5/8"-11	1 1/16"
WA07-5018	08-005716	5260	WP-148 74710	N-40 3/4"-10	1 1/4"



### Light Truck Cap Nuts - Conical Taper (WAP)

Part Number	Replaces OEM	NWRA	Thread	Hex	Height	Type	Taper
WA07-7264	B-67147	X-1148	R/H 5/8"-18	1"	21/32"	Conical	90°



# Brake & Wheel End

## Standard Inner Cap Nut – Steel Wheels (WAP)

Part Number	Replaces		Other Thread	Inner Thread	Length	Square Head	Grade Materials	
	Budd	NWRA						
WA07-5024	10708	X-1828	R/H	1 1/8"-16	3/4"-16	2 1/8"	13/16"	5
WA07-5025	10709	X-1829	L/H					

*NOTE: Recommended for severe service*



## Extra Length Inner Cap Nuts – Steel Wheels (WAP)

Part Number	Replaces		Other Thread	Inner Thread	Length	Square Head	Grade Materials	
	Budd	NWRA						
WA07-5026	35336	X-1835	R/H	1 1/8"-16	3/4"-16	2 9/16"	13/16"	8
WA07-5027	35337	X-1836	L/H					
WA07-5028	22621	X-1407	R/H	1 1/8"-16	3/4"-16	3 1/16"	13/16"	
WA07-5029	22622	X-1408	L/H					



## Standard Inner Cap Nuts – Aluminum Wheels (WAP)

Part Number	Replaces		Other Thread	Inner Thread	Length	Square Head	Grade Materials	
	Budd	NWRA						
WA07-5030	70611	X-1801	R/H	1 1/8"-16	3/4"-16	2 5/8"	13/16"	8
WA07-5031	70612	X-1802	L/H					



## Extra Length Inner Cap Nuts Grade 8 – Aluminum Wheels (WAP)

Part Number	Replaces		Other Thread	Inner Thread	Length	Square Head	Grade Materials	
	Alcoa	NWRA						
WA07-5032	5988R	X-1873	R/H	1 1/8"-16	3/4"-16	2 15/16"	13/16"	8
WA07-5033	5988L	X-1874	L/H					

*NOTE: Also available with full inner thread. Order as "M-2400 full tread only"*



## Standard Outer Cap Nuts (WAP)

Part Number	Replaces		Thread	Hex	Height	Grade Materials	General Information	
	Budd	NWRA						
WA07-5022	37891	X-1831	R/H	1 1/8"-16	1 1/2"	7/8"	5	Standard for steel, aluminum dual wheels and single wheels with 1 1/8" diameter studs
WA07-5023	37892	X-1832	L/H					



### Standard Outer Cap Nuts – Single Wheels (WAP)

Part Number	Replaces		Thread	Hex	Height	General Info
	Budd	NWRA				
WA07-5020	37888	X-1803	R/H	3/4"-16	1 1/2"	Standard for front & rear single mounted wheels
WA07-5021	37889	X-1804	L/H			



### Flanged Nuts (WAP)

Part Number	Replaces		Thread	Hex	Height	General Information
	Budd	NWRA				
WA07-7217	81269 GMC 3771410	X-1110	11/16"-16 RH	1 1/8"	1 1/16"	Use with M-158 & M-159 studs



### Budd Metric Flange Nut (WAP)

Part Number	Replaces Budd	Thread	Hex	Height	Application
WA07-5035	106333	M22 X 1.5	1 1/4" (33mm)	1 7/32" (31mm)	Budd Unmount 10 Wheel Studs



### Metform/Securex Metric Flange Nut (WAP)

Part Number	Replaces	Thread	Hex	Height	Application
WA07-5037	Metform/Securex 39701/627 Alcoa 39691/39949 Ford E6hz1120a Navistar 1649492C1	M22 x 1.5	1 3/10" (33 mm)	1 1/32" (32 mm)	Alcoa Hub Piloted Wheels



### Motor Wheel Metric Flange Nut (WAP)

Part Number	Replaces	Thread	Hex	Height	Application
WA07-5036	88881	M22 x 1.5	1 1/2" (38 mm)	1 3/8" (34.9 mm)	Motor Wheel 8 Stud Wheels

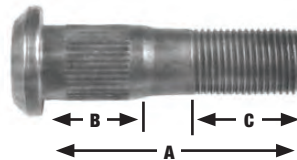


# Brake & Wheel End

## Disc Wheel Studs - Light Truck

**11/16" Thread – Dudd, GMC – Body Diameter 0.728-0.732 (WAP)**

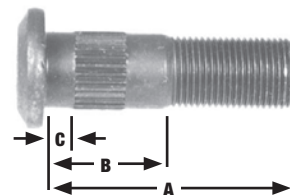
Part Number	Replaces			A	B	C	Note
	Budd	GMC	NWRA				
WA07-5162	82526	3765876	X-1109	3 1/4"	1"	1 27/64"	Rear wheels use M-157 nut



## 3/4"-16 Thread – Serrated Body - Headed Disc Wheel Studs

**Body Diameter 0.783-0.786 - Serrated Diameter 0.810 - 0.820 - Grade 8 (WAP)**

Part Number		MFG. Number		A	B	C
RH	LH	RH	LH			
WA07-6204	WA07-6318	BUDD 59364 NWRA X-1858	BUDD 59365 NWRA X-1859	2 1/8"	3/4"	1/4"
WA07-5096	WA07-5097	BUDD 59263 NWRA X-1712 Trailmobile 50-33A-29	BUDD 59264 NWRA X-1713 Trailmobile 50-33A-30	2 5/8"	1 1/4"	5/16"
WA07-5098	WA07-5099	BUDD 61968 NWRA X-1823 G.M. 3723968 Meritor 20X1576	BUDD 61969 NWRA X-1824 G.M. 3723969 Meritor 20X1575	2 7/8"	1 1/2"	1/4"
WA07-5165	WA07-5166	Gunite W-1133R Gunite W-992R	Gunite W-1133L Gunite W-992L	3 11/32"	1 9/32"	1/4"

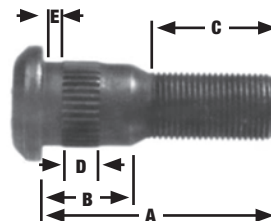


## Budd Unimount Wheel Stud

**3/4"-16 Thread — Serrated Body Diameter 0.900-0.906 Grade 8**

**Serrated Diameter 0.935-0.942 (WAP)**

Part Number		Replaces		A	B	C	D	E
RH	LH	MFG. No.						
WA07-5171	WA07-5172	BUDD 106201	BUDD 106202	2 19/32"	1"	1 1/4"	13/32"	6/32"

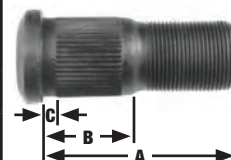


## 1 1/8"-16 Thread – Serrated Body

**Body Diameter 1.218-1.222 Grade 8**

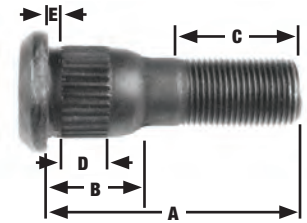
**Serrated Body Diameter 1.244-1.252 (WAP)**

Part Number		Replaces		A	B	C
RH	LH	MFG. No.				
WA07-5106	WA07-5107	KW 233B359R PETERBILT 02-00772	KW 233B359L PETERBILT 02-00771	X-2133	X-2134	3 3/4"
						1 7/32"
						1/8"





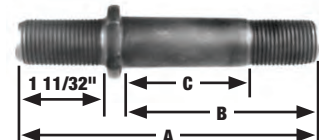
**3/4"-16 Thread – Serrated Body**  
**Body Diameter 0.973-0.977 Grade 8**  
**Serrated Body Diameter 0.998-0.1006 (WAP)**



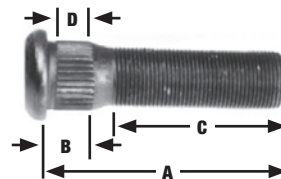
Part Number		Replaces				A	B	C	D	E
RH	LH	MFG. No.		NWRA						
		RH	LH	RH	LH					
WA07-5104	WA07-5105	PETERBILT 03-02207 KENWORTH 233-2871R	PETERBILT 03-02208 KENWORTH 233-2871L	X-1935	X-1936	3 5/16"	1 7/16"	1 3/32"	1"	5/16"
WA07-5177	WA07-5178	PETERBILT 03-02852 KENWORTH 12452-001R	PETERBILT 03-02853 KENWORTH 122452-001L	X-2131	X-2132	3 3/4"	1 3/8"	1 7/8"	1 1/16"	3/16"

**3/4"-16 Thread Both Ends – Flats on Shoulder Stud (WAP)**

Part Number		Budd		NWRA		A	B	C
RH	LH	RH	LH	RH	LH			
WA07-5193	WA07-5194	13990	13991	X-1568	X-1569	3 31/32"	2 7/16"	1 5/32"
WA07-5195	WA07-5196	19004	19005	X-1572	X-1573	4 1/32"	2 1/2"	1 9/32"



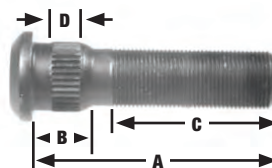
**Gunite Metric M22x1.5 Thread –**  
**Headed Stud with Serrated Body**  
**Body Diameter 0.971-0.975 –**  
**Serrated Diameter 1.001-1.005**  
**Grade 10.9 (WAP)**



Part Number	Replaces Gunite	A	B	C	D
WA07-5204	W-1164	4"	3/4"	2 7/8"	1/2"

**Webb Metric M22 x 1.5 Thread – Headed Stud with Serrated Body**  
**Body Diameter 0.973-0.977 – Serrated Body Diameter 1.000-1.015**  
**Grade 10.9 (WAP)**

Part Number	Replaces WEBB	A	B	C	D
WA07-5038	101162	3 15/16"	23/32"	2 11/16"	3/8"
WA07-5039	101160	4 25/32"	23/32"	3 17/32"	3/8"



# Brake & Wheel End



**Brake Shoe Repair Kits (WAP)  
Eaton 15" X 4" Front Axle  
Brake Kit**

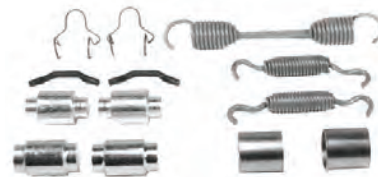
Part Number	FMSI #
WAE5139	1308E 1443E

*Replaces: Eaton 1008306*



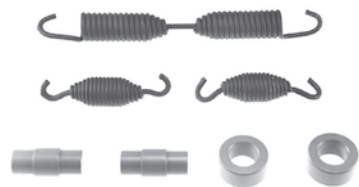
**Brake Shoe Repair Kits (WAP)  
Eaton 16 1/2" "ES-li"  
"Extended Service" Brake**

Part Number	FMSI #
WAE10244	4709ESI



**Brake Shoe Repair Kits (WAP)  
For Meritor 15" X 4"  
"Q" Plus Brake**

Part Number	FMSI #
WA08-5093	4702Q



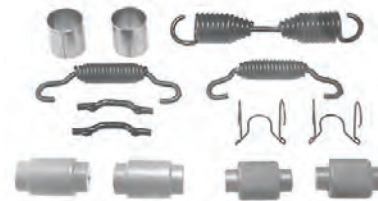
**Brake Shoe Repair Kits (WAP)  
Eaton 16 1/2" Dia. Brake  
Single Anchor Pin,  
Tractor-Trailer**

Part Number	FMSI #
WA1887ASHD	4311E



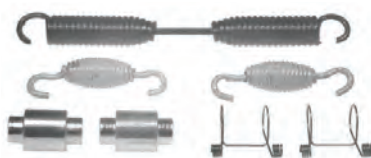
**Brake Shoe Repair Kits (WAP)  
Fruehauf 16 1/2" Dia.  
Brakes XEM, Late 3rd Design**

Part Number	FMSI #
WAE3710SHD	4515X3



**Brake Shoe Repair Kits (WAP)  
Meritor 16 1/2" Diameter  
Brakes - "Q" Brake**

Part Number	FMSI #
WA2769SHD	4515Q
	4707Q+
	4720Q+
	4715Q+
	4718Q+
	4711Q+



**Brake Shoe Repair Kits (WAP)  
Eaton 16 1/2" Dia.  
"Es" Extended -  
Service Brake Kit**

Part Number	FMSI #
WAE5481	4709ES

*Replaces: Eaton 808330*



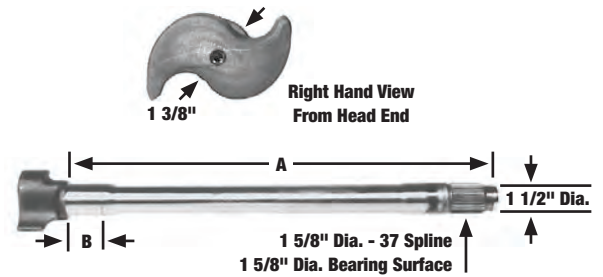
**Brake Shoe Repair Kits (WAP)  
Meritor 15" Dia. "Q" Series  
Front Brake Kit**

Part Number	FMSI #
WAE3869	1308Q 1308Q2

*Replaces: Meritor 8029*

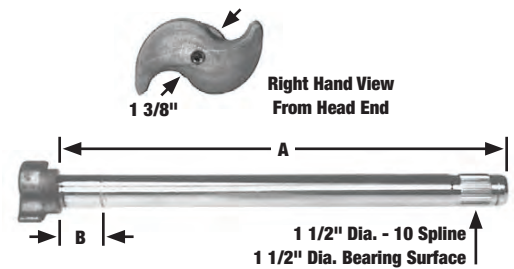
### Fruehauf Pro-Par Trailer Camshafts (WAP) 1 5/8" Dia. - 37 Spline - 16 1/2" Brakes

Part Number	Replaces	A Underhead To Lockring Groove	B Underhead To Bearing Surface Groove
WA05-5004	AXA-0420-4	21 1/8"	2 5/32"
WA05-5005	AXA-0420-3		



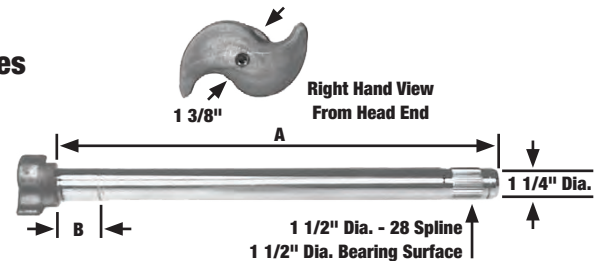
### Meritor Drive Axle Camshafts (WAP) 1 1/2" Dia. - 10 Spline - 16 1/2" "P" And "Q" Brakes

Part Number	Replaces	A Underhead To Lockring Groove	B Underhead To Bearing Surface Groove	Application
WA05-5190	2210-X-2442	8 9/16"	1 3/4"	Mack Truck
WA05-5191	2210-Y-2443			



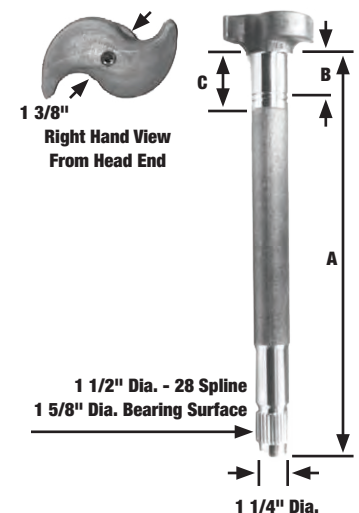
### Meritor Drive Axle Camshafts (WAP) 1 1/2" Dia. - 28 Spline - 16 1/2" "P" And "Q" Brakes

Part Number	Replaces	A Underhead To Lockring Groove	B Underhead To Bearing Surface Groove
WA05-5014	2210-A-5331	11 5/8"	1 3/4"
WA05-5015	2210-B-5332		

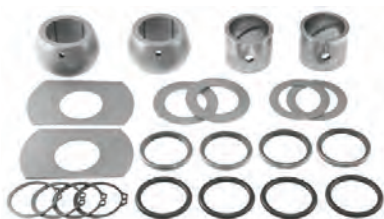


### Meritor Trailer Camshafts (WAP) 1 1/2" Dia. - 28 Spline - 16 1/2" Brakes - "P" And "Q" Brakes

Part Number	Replaces	A Underhead To Lockring Groove	B Underhead To Bearing Surface Groove	Application
WA05-5008	2210-L-4328 2210-U-6573	17 1/4"	1 11/16"	4000-6000 Series Can Be Used With Narrow And Wide Boss Spiders
WA05-5009	2210-M-4329 2210-V-6574			
WA05-5012	2210-N-4330 2210-W-6575	24 1/16"	1 11/16"	
WA05-5013	2210-P-4332 2210-X-6576			



# Brake & Wheel End



**Camshaft Repair Kits (WAP)**  
**Dana 16 1/2" Dia. Brakes**  
**Late Model with Spherical**  
**Cam Bushing - Eaton 16 1/2"**  
**Dia "Es" Trailer Brakes**

Part Number	Notes
WA08-5013	For 1 1/2" Dia. Camshafts



**Camshaft Repair Kits (WAP)**  
**Eaton 16 1/2" Diameter**  
**"ES" Trailer Brakes**

Part Number	Notes
WA08-5012	For 1 5/8" Dia. Camshafts



**Camshaft Repair Kits (WAP)**  
**Meritor 12 1/4" and**  
**16 1/2" Diameter**  
**Brakes-Late 4000-6000**  
**Trailer Axles**

Part Number	Notes
WA08-5006	For 1 5/8" Dia. Camshafts



**Camshaft Repair Kits (WAP)**  
**Eaton 15" X 4" Front Brakes**

Part Number	Notes
WA08-5078	For 1-1/4" Dia. Camshafts, 15" x 4" Single Anchor Pin Brake

*Replaces: Eaton 1008325*



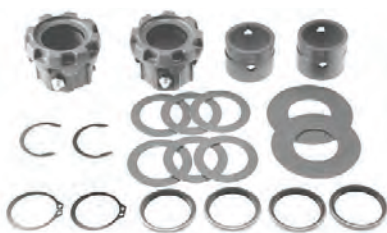
**Camshaft Repair Kits (WAP)**  
**Eaton, Fruehauf,**  
**Hendrickson - Fruehauf**  
**12-1/4" and 16-1/2" Dia.**  
**Brakes - Late Pro-Par Axles**

Part Number	Notes
WA08-5005	For 1-5/8" Dia. Camshafts



**Camshaft Repair Kits (WAP)**  
**K-B, Meritor Axles Meritor 15"**  
**Diameter Brakes - "T" Series**  
**with 1 1/4" Diameter Cams**

Part Number	Notes
WA08-5074	For 1 1/4" Dia. Camshafts



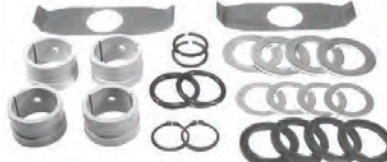
**Camshaft Repair Kits (WAP)**  
**Eaton 12 1/4" Diameter,**  
**Late Model Brakes**  
**with M-2651 Spider**

Part Number	Notes
WA08-5070	For 1 1/2" Dia. Camshafts



**Camshaft Repair Kits (WAP)**  
**Meritor 12 1/4" and 16 1/2"**  
**Dia. Brakes - Late 4000**  
**6000 Trailer Axles**

Part Number	Notes
WA08-5007	For 1 5/8" Dia. Camshafts. Same As M-K61 Kit Less M-1521



**Camshaft Repair Kits (WAP)**  
**Meritor Axles Axles With**  
**16 1/2" Diameter**  
**"Q" Brakes**

Part Number	Notes
WA08-5008	For 1 1/2" Dia. Camshafts





**Camshaft Repair Kits (WAP)  
Meritor 16 1/2" Diameter  
Late Trailer Axles  
With Fabricated Spiders**

Part Number	Notes
WA08-5001	For 1 5/8" Dia. Camshafts



**Camshaft Repair Kits (WAP)  
Meritor Boss - Bearing Cam  
Kit For Fabricated Spiders**

Part Number	Notes
WA08-5002	For 1 5/8" Dia. Camshafts
Replaces Meritor 8289	

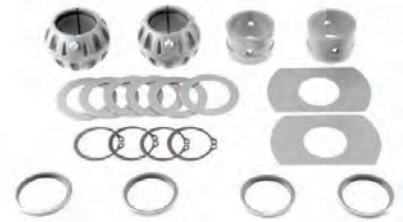


**Camshaft Repair Kits (WAP)  
Meritor 16 1/2" Dia. Brakes  
Late "P" Series Trailer Axles**

Part Number	Notes
WA08-5023	For 1 1/2" Dia. Camshafts

**Camshaft Repair Kits (WAP)  
Std. Forge, Wagner Std. Forge 16 1/2" Dia. Brakes  
Weld On Spider**

Part Number	Contains
WA08-5009	For 1 1/2" Dia. Camshafts



**Crewson Brunner Automatic Slack Adjusters (WAP)**

Part Number	Spline Size	Arm Drilling	Clevis Thrd	Arm Description	Application Information
WA10-5014	1 1/4" - 10	5 1/2"	5/8" - 18	Straight	Meritor "T" Series Eaton Single Webb Brake Shoes
WA25100	1 1/4" - 24	5 1/2"	5/8" - 18	Straight	Meritor "Q" & "T" Series Brakes
WA21103	1 1/2" - 10	5", 6"	5/8" - 18	Straight	Trailer Brakes
WA22103	1 1/2" - 28	5", 6"	5/8" - 18	Straight	Steering Axles, Drive Axles & Trailer Axles
WA21102	1 1/2" - 10	5 1/2", 6 1/2"	5/8" - 18	Straight	Steering Axles & Drive Axles
WA22102	1 1/2" - 28	5 1/2", 6 1/2"	5/8" - 18	Straight	Steering Axles & Drive Axles
WA43106	1 5/8" - 37	5", 6"	5/8" - 18	Straight	Fruehauf Trailer Brakes



# Brake & Wheel End

## Automatic Brake Adjusters - Standard Applications (HBS/WAP)

- Automatic Brake Adjusters cover more applications than any other brand.
- Backed by the industry's longest warranty.
- Compatible with all major brand clevises.

Part Number	Product Description	S-ABA Version Available	Spline	Arm Length	Anchor Bracket Style	Bracket Number
40010140 WA10140	ABA Service Kit	40020234	1-1/2"-28	5", 6"	Strap	42710553



## Automatic Brake Adjusters - Mack Truck Applications (HBS/WAP)

- Automatic Brake Adjusters cover more applications than any other brand.
- Backed by the industry's longest warranty.
- Compatible with all major brand clevises.

Part Number	Product Description	S-ABA Version Available	Spline	Arm Length	Anchor Bracket Style	Bracket Number	Notes
40010144 WA10144	ABA Service Kit	40020243	1 1/2"-28	6"	Clamp	42710566	For Mack Truck with 3" and longer camshaft tubes.



## Automatic Brake Adjusters - Trailer Axle Applications - 16-1/2" Brake Assemblies (HBS/WAP)

- Automatic Brake Adjusters cover more applications than any other brand.
- Backed by the industry's longest warranty.
- Compatible with all major brand clevises.

Part Number	Product Description	S-ABA Version Available	Spline	Arm Length	Anchor Bracket Style	Bracket Number
40010211 WA10211	ABA Service Kit	40020211	1-1/2" 28	5 1/2"	Plate & Flat Stud	42710563



### CSI Automatic Brake Adjusters For CSI Truck/Tractor Applications (HBS/WAP)

- For Truck/Tractor Application
- Includes collar lock clevis (except offsets).
- Long stroke compatible.
- Un-handed design.
- Double sealed for long life.
- Drilled for camshaft lubrication.
- Factory lubricated.
- Installation gauge included.
- Truck applications use standard collar lock clevis.
- Some kits include both 5/8" and 1/2" lock collars to accommodate wider applications.
- CSI Automatic Slack Adjusters are long stroke chamber compatible.
- Offset Automatic Slack Adjusters use threaded clevis kits.



Part Number	Product Description	Fleet Line Part #	Arm Length	Number of Splines	Spline Diameter	Collar Lock Kit	Collar Lock Thread	Offset
CS56040 WA42100	CSI ABA	AS1140	5.5"	28	1.5"	CQ36593	5/8"-18 & 1/2"-20	—
CS56041 WA42106	CSI ABA	AS1141	6.0"	28	1.5"	CQ36544	5/8"-18	—

### CSII Automatic Brake Adjusters - CSII Standard Applications (HBS/WAP)

- Clevis kit included.
- Clearance sensing adjustment.
- Long stroke compatible.
- Simple installation.
- Un-handed design.
- Installation gauge included.



Part Number	Product Description	Crewson Part Number	Arm Length	Number of Splines	Spline Diameter	Includes Clevis Kit	Clevis Thread
CS52320 WA22102	CSII ABA	CB22102	5.5", 6.5"	28	1.5"	CQ36543	5/8"-18
CS52321 WA22103	CSII ABA	CB22103	5.0", 6.0"	28	1.5"	CQ36543	5/8"-18

### CSII Automatic Brake Adjusters - CSII Clevis Kits (HBS)

- CSII Clevis Kits are used on all CSII Automatic Slack Adjusters.
- Kits include clevis, 1/2" pin, 1/4" pin, and (2) cotter pins.



Part Number	Product Description	Crewson Part Number	Style	Thread
CQ36543	Clevis Kit for CSII Auto-Check Automatic Brake Adjuster	8120	Straight	5/8"—18

## Brake & Wheel End



### Manual Slack Adjusters (WAP) 1 1/2" - 10 Spline Straight Arm

Part Number	Replaces	Drilling	Notes
WAKN47011	B-W 278321 Midland KN-47011 Meritor R822001 BWP M-457	5 1/2" - 6 1/2"	26,000 Lbs. Torque Rating 1/2" Clevis Holes



### Manual Slack Adjusters (WAP) 1 1/2" - 28 Spline – Straight Arm

Part Number	Replaces	Drilling	Notes
WAKN44051	B-W 286965 Midland KN44051 Meritor R822003 BWP M-638	5" - 6"	Torque Rating: 26,000 Ft. Lbs. 1/2" Clevis Holes
WAKN44061	B-W 288753 Midland KN44061 Meritor R822004 BWP M-2577	5 1/2" - 6 1/2"	Torque Rating: 26,000 Ft. Lbs. Meritor 4000-6000 Axles 1/2" Clevis Holes



### Manual Slack Adjusters (WAP) 1 37/64" - 37 Spline – Fruehauf Pro-Par Axles

Part Number	Replaces	Drilling	Notes
WAKN44041	B-W 283411 Midland KN44040 Fruehauf AXA1011-1 Meritor R822007 BWP M-474	6"	26,000 Lbs. Torque Rating Pro-Par Axles



### Manual Slack Adjusters (WAP) 1 1/2" - 28 Spline – Straight Arm – Heavy Duty

Part Number	Replaces	Drilling	Notes
WAKN44071	Bendix 101215 Meritor R823002 BWP M-3373	5" - 7"	30,000 Lbs. Torque Rating 1/2" Clevis Holes

### Clevis Assemblies (WAP)

Part Number	A Thread Diameter	B Clevis Pin Diameter	C Pin Diameter	Arm	Information
WA07-7052	5/8" - 18	1/2"	1/4"	Straight	Each Kit Contains: 1 Clevis 1 1/2" Pin 1 1/4" Pin 2 Cotter Pins







### Manual Slack Adjusters (WAP) 1 1/4" - 10 Spline – Straight Arm

Part Number	Replaces	Drilling	Notes
WAKN48031	Midland KN48031 Meritor R822009 BWP M-3375	4 1/2", 5 1/2"	26,000 Lbs. Torque Rating 1/2" Clevis Holes



### Manual Slack Adjusters (WAP) 1 1/2" - 10 Spline – Straight Arm

Part Number	Replaces	Drilling	Notes
WAKN47001	Bendix 278323 Midland KN47001 Meritor R822000 Dana M10WR119 Dana M16WR100 BWP M-434	5" - 6" - 7"	26,000 Lbs. Torque Rating 1/2" Clevis Holes

### Lucas Girling Back Plate Assemblies without Shoes (HBS)

- Backing Plates with 1.625" Cylinders have been replaced by 1.750" Cylinders.
- Cylinders must be replaced in pairs – i.e. you should use the same cylinder size on an axle.



Part Number	Product Description	Size	Weight	Core Group
RH203261X	Remanufactured Lucas Right Hand Backplate Assembly for 6" / 7" Shoes	1.750"	40 lbs.	HYD1010
RH203262X	Remanufactured Lucas Left Hand Backplate Assembly for 6" / 7" Shoes	1.750"	39 lbs.	HYD1010

### Lucas Girling Back Plate Assemblies with Shoes (HBS)

- Backing Plates with 1.625" Cylinders have been replaced by 1.750" Cylinders.
- Cylinders must be replaced in pairs – i.e. you should use the same cylinder size on an axle.

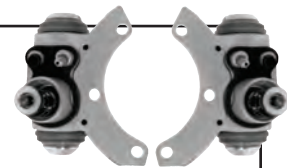


Part Number	Product Description	Size	Approx. Weight	Core Group
RH202251X	Remanufactured Lucas Right Hand Backplate Assembly with 5" Shoes	1.750"	55 lbs.	HYD1009
RH202252X	Remanufactured Lucas Left Hand Backplate Assembly with 5" Shoes	1.750"	55 lbs.	HYD1009
RH202261X	Remanufactured Lucas Right Hand Backplate Assembly with 6" Shoes	1.750"	60 lbs.	HYD1010
RH202262X	Remanufactured Lucas Left Hand Backplate Assembly with 6" Shoes	1.750"	60 lbs.	HYD1010
RH202271X	Remanufactured Lucas Right Hand Backplate Assembly with 7" Shoes	1.750"	63 lbs.	HYD1010
RH202272X	Remanufactured Lucas Left Hand Backplate Assembly with 7" Shoes	1.750"	63 lbs.	HYD1010

# Brake & Wheel End

## Lucas Girling Park Cylinders/Expanders (HBS)

- 1.625" Cylinders have been replaced by 1.750" Cylinders.
- Cylinders must be replaced in pairs – i.e. you should use the same cylinder size on an axle.



Part Number	Product Description	Size	Weight	Core Group	Inlet Port	Park Cylinder Repair Kit	Residual Check Valve
RH201179	Left Hand Park Cylinder (Expander)	1.750"	14 lbs.	—	7/16" - 24	RH7872K	RH01K
RH201179X	Remanufactured Lucas Left Hand Park Cylinder (Expander)	1.750"	14 lbs.	HYD1002	7/16" - 24	RH7872K	RH01K
RH201180X	Remanufactured Lucas Right Hand Park Cylinder (Expander)	1.750"	14 lbs.	HYD1002	7/16" - 24	RH7872K	RH01K

## Lucas Girling Adjusting Cylinders (HBS)

- 1.625" Cylinders have been replaced by 1.750" Cylinders.
- Cylinders must be replaced in pairs – i.e. you should use the same cylinder size on an axle.



Part Number	Product Description	Size	Weight	Core Group	Inlet Port	Adjusting Cylinder Repair Kit	Residual Check Valve
RH201184X	Remanufactured Lucas Right Hand Wheel Cylinder	1.750" (#6 Stamp)	12 lbs.	HYD1003	7/16"-24	RH7871K	RH01K

## Brake Drums (HDD)

KIC's line of aftermarket brake drums covers most truck, trailer and transit applications. Our metallurgy exceeds the industry standard for hardness and tensile strength. Aftermarket drums meet or exceed OEM quality. Optimized designs minimize weight and maximize performance and lining wear.



Part Number	Webb #	Gunitite #	Bolt Holes	Bolt Hole Diameter	Bolt Hole Circle	Brake Face Diameter	Overall Depth	Brake Face Width	Hub Pilot	Weight (lbs)
51952-11	68897F	8656	5 & 6	0.64"	12.75"	16.50"	8.13"	7.30"	11.00	108
52230-10	67518F	3784	5 & 6	0.78" & 0.66"	11.00"	16.50"	8.39"	7.50"	9.44	105
52890-13	62997F	2997D	5 & 6	0.78"	12.75"	16.50"	8.75"	7.63"	10.50	103
52705-308	66895B	3141X	10	0.81"	11.25"	16.50"	10.61"	7.82"	9.00	114
53026-01	66893F	3166	10	0.81"	11.25"	16.50"	10.63"	7.81"	8.53	114
52020-01	62200F	2705	10	0.83"	11.25"	16.50"	9.50"	7.63"	9.44	99
54209-018	66865B	3441X	10	0.87"	11.25"	16.50"	10.31"	7.44"	9.00	112
54202-01	66873F	3402	10	1.00"	11.25"	16.50"	10.30"	7.36"	8.78	110
54213-01	66353F	3649	10	1.00"	11.25"	16.50"	11.18"	7.40"	8.78	114
60001-01			10	1.00"	11.25"	16.50"	10.62"	7.56"	8.78	108
60000-018	66864B	3600AX	10	1.00"	11.25"	16.50"	10.52"	7.56"	8.78	102
54201-108	61528B	3721AX	10	1.28"	11.25"	15.00"	8.86"	4.78"	8.78	84
54241-018	65541B		10	1.28"	11.25"	15.00"	8.84"	4.84"	9.00	83

## Horn-Disc High Tone (WLO)

O.E. universal high tone disc horn, 12-volt, 2 terminal type. Ideal when, a new or replacement horn is needed for a car, motorcycle, truck or RV Painted steel construction, assures long life in all environments. Kit comes complete with a heavy-duty mounting bracket, mounting hardware and electrical terminals.



Part Number	Voltage	Current	Decibels	Hertz	Size
305-2T	12 V	4.5 Amp	115	420 Hz	3-3/4 in. Diameter

## 24 Volt Industrial Disc Horn (WLO)

O.E. UNIVERSAL DISC HORN, 24-volt, 2 terminal screw type, easily fits industrial equipment motorcycles, cars and trucks. Painted steel construction assures long life in all-weather environments and has an attractive front plastic grill. Easily installs in any one or two wire system. All steel construction, painted black enamel finish. The diameter is 96mm. Comes with strong zinc plated 90 degree mounting bracket.



Part Number	Voltage	Current	Decibels	Hertz	Size
357-24	24 V	1.8 Amp	114	385 Hz	3-3/4 in. Diameter

## Horn Universal High Tone (WLO)

O.E. Universal two terminal replacement horns for cars, trucks, motorcycles, etc. Easy to install in any 12 volt vehicle with either one or two terminals. Better quality for louder sound. Individually packaged.



Part Number	Voltage	Current	Decibels	Hertz	Size
315-2T	12 V	4 Amp	115	510 Hz	3-1/2 in. Diameter

## Horn Universal Low Tone (WLO)

O.E. Universal two terminal replacement horns for cars, trucks, motorcycles, etc. Easy to install in any 12 volt vehicle with either one or two terminals. Better quality for louder sound. Individually packaged.



Part Number	Voltage	Current	Decibels	Hertz	Size
310-2T	12 V	4 Amp	115	410 Hz	3-1/2 in. Diameter

## Full Blast Loud Horn (WLO)

Extra loud high tone universal replacement horn 12-volt. Perfect for cars, SUV's, trucks and motorcycles. Easily installs on any vehicle with one or two wire system. Fits all 12-volt vehicles built since 1955. Full Blast is made for those vehicle owners who desire an extra loud, better quality replacement horn. Kit comes complete with heavy-duty mounting bracket, mounting hardware and wire terminals.



Part Number	Voltage	Current	Decibels	Hertz	Size
385-2T	12 V	5 Amps	116	510 Hz	3-1/2 in. Diameter

## Full Blast Loud Horn (WLO)

Extra loud low tone universal replacement horn 12-volt. Perfect for cars, SUV's, trucks and motorcycles. Easily installs on any vehicle with one or two wire system. Fits all 12-volt vehicles built since 1955. Full Blast is made for those vehicle owners who desire an extra loud, better quality replacement horn. Kit comes complete with heavy-duty mounting bracket, mounting hardware and wire terminals.



Part Number	Voltage	Current	Decibels	Hertz	Size
380-2T	12 V	5 Amps	116	410 Hz	3-1/2 in. Diameter

## Airmite 2 Air Horn (WLO)

AIR POWERED-VERY LOUD, perfect choice for any 12-volt vehicle. Kit has two durable red plastic trumpets. Easy to install in all vehicles with Wolo's new compact maintenance free, chrome plated compressor. The kit includes a heavy-duty compressor, 30 amp relay, hose and mounting hardware. Airmite 2 will provide years of dependable service.



Part Number	Voltage	Current	Decibels	Hertz	Compressor	Size
400	12V	16 Amp	120	780 - 840 Hz - High Range	10-12 psi.	Longest trumpet: 8-1/2 in. Compressor Size: Diameter 2-1/4 in. x H 4-1/2 in.

## Back-Up Alarm Comm (WLO)

Wolo's Intelligent Back-Up Alarm measures the ambient noise level and instantly self-adjusts to produce a 3 decibel beeping sound louder than the surrounding noise. Automatically adjusts to a voltage range of 12-48 volt vehicles. The electronics are sealed in rock hard epoxy for protection against dust, vibration and moisture. The reinforced plastic housing has been designed for easy and secure mounting. Wire leads make installation easy. Designed for heavy-duty commercial industrial applications. Includes mounting hardware and warning decal.



Part Number	Voltage	Sound Pressure Level	Decibels	Current	Size	Sound Type
BA-500	12 - 48 VDC	112 db @ 3 ft.	98-112 adjustable to ambient noise level	416 mA @ 12 VDC 125 mA @ 48 VDC	L 5 in. x W 2-3/4 in. x H 3-1/2 in.	Beeping

### Back-Up Alarm Heavy (WLO)

Wolo's BA-97 is designed for heavy-duty use. Automatically adjusts to a voltage range of 12-24 volt vehicles. The state-of-the-art electronics are sealed in rock hard epoxy for all weather usage. The black plastic case is waterproof and has strong mounting brackets. Produces a powerful beeping sound that is 97 decibels, to help warn when the vehicle is backing-up. Easily installs to any one or two wire systems. Includes mounting hardware and warning decal.



Part Number	Voltage	Sound Pressure Level	Current	Size	Sound Type
BA-97	12 - 24 VDC	97db	206 mA @ 12 VDC 148 mA @ 24 VDC	L 2-1/2 in. x W 1-3/4 in. x H 2-1/2 in.	Beeping

### Back-Up Alarm 107 DB (WLO)

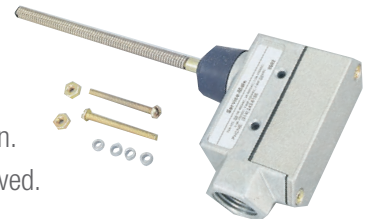
Model BA-107 produces a powerful beeping sound, 107 decibel, when vehicle is in reverse to alert pedestrians and help prevent accidents. Designed with state-of-the-art electronics. Automatically adjusts to a voltage range of 12-48 volt DC. The black plastic case is water resistant and mounting is made easy with a heavy-duty zinc plated steel bracket. Includes mounting bracket, mounting hardware, warning decal and wire terminals.



Part Number	Voltage	Sound Pressure Level	Current	Size	Sound Type
BA-107	12-48 VDC	107 db @ 3 ft.	137 mA @ 12 VDC 54 mA @ 48 VDC	L 3 in. x W 2-1/2 in. x H 3-1/4 in.	Beeping

### Back-Up Alarm Activating Switch (CPF)

Designed for easy installation and to be actuated by gear shift linkage when vehicle is shifted into reverse. This switch is rated for NEMA 1 and when installed properly is water and dust resistant. 15 Amp rated and may be actuated from a full 360° direction. Switches should be mounted on a flat rigid surface. Basic switch is UL and CSA approved.

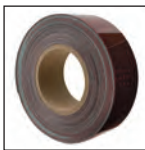


Part Number	Temperature Range
08040	Back-Up Alarm Activating Switch

### Reflective Product (LTG)

**41160** 2" x 150' Roll, 5 Year Warranty

Conspicuity Tape Alternating 7" SILVER / 11" RED



- Exceeds DOT requirements
- Durable, impact and solvent resistant
- Easy installation
- Reflects light even in daytime
- Bright prismatic appearance
- Tape is repositionable within 15 minutes

FMVSS

DOT-C2

### Warning Kit (LTG)

**71422** Kits - Three Triangles

Triangle Warning Kit



- Reflective up to 1/2 mile
- Exceeds legal requirements
- Weatherproof and impact resistant
- Weighted for stability
- Kit of three triangle devices in carrying case

Material

DURAMOLD™

FMVSS

125, SAE: J774c-Type I



# Mud Flaps

## Heavy Duty Poly Splash Guard (GBT)

3/16" thick Poly Ultra-Rubber™ splash guards are specially formulated for dependable performance. Available in black or white, these value-priced guards feature the CARQUEST® logo.

## Rubber Truck Flaps (GBT)

1/4" thick splash guards made of Nyracord® Rubber, a blend of the finest rubber and sturdy nylon fibers. These durable, tear-resistant Nyracord® guards feature the CARQUEST® logos.

## Universal Chevron Splash Guards (GBT)

These rubber Universal Chevron Splash Guards offer the strength and dependability of Nyracord at an economical price. May be conveniently cut at molded ribs for shorter lengths or for angle mounting brackets.

## Safety Guard Rubber Truck Flap (GBT)

Tough 1/2" thick splash guards are made from Nyracord® Rubber, which is the finest rubber reinforced with sturdy nylon fibers. These durable Safety Guards are designed for anti-sail and anti-spray performance in all weather conditions.

## Heavy Duty Anti-Spray Poly Splash Guards (GBT)

These 1/4" thick Poly Ultra-Rubber™ splash guards are formulated to take the abuse of the open road. Vertical grooves channel spray back down to the road, providing outstanding anti-spray, anti-sail performance. Features the CARQUEST® logo.



Heavy Duty Poly - White



Heavy Duty Poly - Black



Safety Guard Rubber



Heavy Duty Anti-Spray Poly White



Nyracord Universal Chevron



Nyracord Rubber

Part Number	Type	Color	Thickness	Width	Height
2424PSBCQ	Heavy Duty Poly	Black	3/16"	24"	24"
2430PSBCQ	Heavy Duty Poly	Black	3/16"	24"	30"
2436PSBCQ	Heavy Duty Poly	Black	3/16"	24"	36"
2424PSWCQ	Heavy Duty Poly	White	3/16"	24"	24"
2430PSWCQ	Heavy Duty Poly	White	3/16"	24"	30"
2436PSWCQ	Heavy Duty Poly	White	3/16"	24"	36"
GT-2424HDD	Safety Guard Rubber	Black	1/2"	24"	24"
GT-2430HDD	Safety Guard Rubber	Black	1/2"	24"	30"
GT-2436HDD	Safety Guard Rubber	Black	1/2"	24"	36"
2424PPSWCQ	Heavy Duty Anti-Spray Poly	White	1/4"	24"	24"
2430PPSWCQ	Heavy Duty Anti-Spray Poly	White	1/4"	24"	30"
2436PPSWCQ	Heavy Duty Anti-Spray Poly	White	1/4"	24"	36"
GT-2424RMCQ	Solid Panel Splash Guards	Black	1/4"	24"	24"
GT-2424RMAP	Solid Panel Splash Guards	Black	1/4"	24"	24"
GT-2430RMCQ	Solid Panel Splash Guards	Black	1/4"	24"	30"
GT-2430RMAP	Solid Panel Splash Guards	Black	1/4"	24"	30"
GT-2436RMCQ	Solid Panel Splash Guards	Black	1/4"	24"	36"
GT-2436RMAP	Solid Panel Splash Guards	Black	1/4"	24"	36"
GT-1220RMCQ	Nyracord Rubber	Black	1/4"	24"	20"
GT-2430RMCQ	Nyracord Rubber	Black	1/4"	24"	30"
GT-2436RMCQ	Nyracord Rubber	Black	1/4"	24"	36"
99001	Nyracord Rubber	Black	1/4"	24"	40"
GT-2424C	Nyracord Universal Chevron	Black		24"	24"
GT-2430C	Nyracord Universal Chevron	Black		24"	30"
GT-2436C	Nyracord Universal Chevron	Black		24"	36"

## Mud Flap Hangers (CPF, GBT & WAP)

Hangers and mounting brackets are interchangeable to suit your application. Straight hangers are standard equipment on many OE's and are the workhorse of the industry. Angled down hangers accommodate close trailer hookups and prevent damage due to tangling with landing gear. Offset hangers are designed to fit trucks with short frames and allow flexibility to position the flap where desired. Boxed set includes: (2) mounting brackets, (2) mud flap hangers, adjustable flap clips, nuts and bolts.

MFG	Part Number	Duty	Design Type	Bracket (MFG: CPF)	Thickness	Size
GBT	GT-2723B	Standard Duty	Straight	41245	0.640"	29.75"
GBT	GT-2725B	Standard Duty	Straight	41245	0.640"	29.75"
WAP	WA-2733B	Standard Duty	Angled Down	41245	0.640"	27.64" x 7.31"
GBT	GT-2735B	Standard Duty	Angled Down	41245	0.640"	27.78" x 7.5"
CPF	41207	Standard Duty	Offset	41245	0.640"	29.75"
WAP	MUDFLAPHANGER	Heavy Duty	Straight	41244 or 41246	0.750"	29.75"
GBT	GT-2783B	Heavy Duty	Straight	41244 or 41246	0.750"	30.25"
CPF	41227	Heavy Duty	Angled Down	41244 or 41246	0.750"	27.42" x 7.5"
GBT	GT-2784B	Heavy Duty	Angled Down	41244 or 41246	0.750"	27.78" x 7.5"



GT-2723B & GT-2783B



GT-2725B  
& MUDFLAPHANGER



WA-2733B & GT-2784B



GT-2735B



41207

## Heavy duty Mounting Brackets (CPF)

These one-piece, investment cast steel, heavy-duty mounting brackets provide greater strength and longer life than metal-stamped brackets. Mounting brackets are shot peened and painted black to match hangers. Includes: (2) mounting brackets, nuts and bolts.



## Spring Loaded Mud Flap Hangers (CPF & GBT)

Boxed set, stainless steel or black satin powder coating finish.

Includes: left & right hangers.

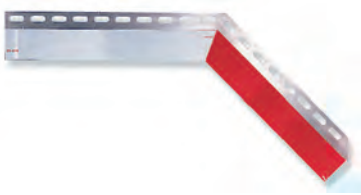
MFG	Part Number	Design Type	Color	Size	Mounting Center to Center	Notes
CPF	41216	Straight	Black	30.25"	1.18"	
GBT	GT-27B57	Straight	Black	30.25"	1.18"	w/Reflective Tape
CPF	41226	Tapered	Stainless	30.25"	2.5"	No End Cap
GBT	GT-27B7	Tapered	Black	30.25"	2.5"	No End Cap
GBT	GT-27B67	Angle Down	Black	30.25" x 13.5"	1.18"	w/Reflective Tape
CPF	41217	Straight	Stainless	28"	1.18"	w/Reflective Tape
CPF	41221	Angle Down	BLACK	30.25" X 13.5"	1.18"	
CPF	41220	Angle Down	Black	28" x 13.5"	1.18"	



# Mud Flaps

## Reflective (Conspicuity) Strips (CPF)

For mud flap hangers without integrated reflective (conspicuity) tape, we offer reflective strips which meet the Federal Motor Vehicle Safety standard for retroreflective material. Conspicuity Strips may be used with a variety of hanger types for aftermarket application. They are packaged in pairs and easy to install.



Part Number	Description
41249	Reflective (Conspicuity) Strips (Angled down)

## Black Poly Quarter Fender Kit (GBT)

Black poly Ultra-Rubber™ quarter fenders are durable and tough. Designed with no exposed braces, brackets or bolts, the curved surfaces and rounded edges hold spray and stones to a minimum. Quarter fender kits include two fenders, two poly extensions with Koneta logo, extension mounting hardware and clamp kit.



Part Number	Description
GT-3900	Black Poly Quarter Fender Kit

## Mirror Stainless Steel Quarter Fender Kit (GBT)

Attractive mirror stainless steel quarter fenders that won't peel or rust are designed with no exposed braces, brackets or bolts. The smooth curved surfaces and rounded edges offer maximum protection from spray and stones. Quarter fender kits include two fenders, two poly extensions with Koneta logo, extension mounting hardware and clamp kit.



Part Number	Description
GT-39585B	Stainless Steel Quarter Fender Kit




## A Century Of Leadership and Innovation

The broadest line of cargo handling and restraint products for the transportation and material handling industry are available worldwide from a company with nearly four decades of cargo know how.




### Standard 2" Winch Strap (CCS)

WLL: 3,333 lbs.

	Part Number	Description
	<b>41659-10-27</b>	27-ft. with Flat Hook
	<b>41659-10-30</b>	30-ft. with Flat Hook








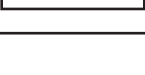
### Standard 3" Winch Strap (CCS)

WLL: 5,400 lbs.

	Part Number	Description
	<b>41660-10-27</b>	27-ft. with Flat Hook
	<b>41660-10-30</b>	30-ft. with Flat Hook



### Standard 4" Winch Strap (CCS)

WLL: 5,400 lbs.

	Part Number	Description
	<b>43795-10-27</b>	27-ft. with Flat Hook
	<b>43795-10-30</b>	30-ft. with Flat Hook
	<b>43795-10-35</b>	4-in. x 35-ft. Winch Strap w/41766-18 Flat Hook
	<b>43795-10-40</b>	4-in. x 40-ft. Winch Strap w/41766-18 Flat Hook
	<b>43795-11-30</b>	30-ft. with Delta Ring
	<b>43795-13-30</b>	30-ft. with Twisted Loop
	<b>43795-15-27</b>	27-ft. with Chain Anchor
	<b>43795-15-30</b>	30-ft. with Chain Anchor




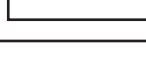
### Ratchet Strap Assemblies (CCS)

Meets DOT and WSTDA T-1 standards for synthetic web tiedowns  
2" Long-Wide Handle Ratchet Buckle Straps WLL: 3,333 lbs

	Part Number	Description
	<b>45982-10</b>	27-ft. with Flat Hooks
	<b>45982-11</b>	30-ft. with Flat Hooks
	<b>45982-42</b>	27-ft. with Wire Hooks
	<b>45982-43</b>	30-ft. with Wire Hooks

### Winch Bars (CCS)

34-inch with heat-treated, tapered and angled tips.  
Knurled handles to improve grip

	Part Number	Description
	<b>42313-10</b>	Standard Painted, Weight: 5.0 lbs. on the bar.
	<b>42313-12</b>	Combination Box End, Painted, Weight: 6.5 lbs. on the bar.
	<b>42313-17</b>	Standard Chrome, Weight: 5.0 lbs. on the bar.
	<b>42313-19</b>	Combination Chrome, Weight: 6.5 lbs.

### Utility Tiedowns (CCS)


Versatile and reliable for securing a wide range of light- to medium-duty cargo.

	Part Number	Description
	<b>43887-10</b>	Heavy Duty Ratcheting Tiedown with D-Ring and Wire Hooks WLL: 1,000 lbs. 1"x16' Weight: 1.56 lbs.

# Cargo Control


## Web Winches (CCS)

Ratcheting and non-ratcheting winches. Unless noted below, all have a working load limit of 6,000 lbs.

	Part Number	Description
	<b>43563-10</b>	Standard Bottom Mount Non-ratcheting Weight: 9.1 lbs.
	<b>43563-10-RC</b>	Standard Bottom Mount Ratcheting Cap Weight: 10.6 lbs.
	<b>43564-12-RC</b>	Storage Portable Ratcheting Cap w/2 set screws Weight: 12.4 lbs.
	<b>43564-14</b>	Standard Portable Ratcheting Cap w/2 set screws Weight: 12.0 lbs.
	<b>43565-12</b>	Deep Storage Mount Non-ratcheting C Track Weight: 11.4 lbs.
	<b>49207-13</b>	Standard Non-ratcheting Cap Double L Track WLL: 5,000 lbs. Weight: 8.1 lbs


## Rubber Ties (CCS)

Wide assortment of quality rubber ties. Use caution when using rubber ties


	Part Number	Description
	<b>41569-21</b>	21-in. 15 lbs./box
	<b>41569-31</b>	31-in. 19 lbs./box

## Load Binders (CCS)

Lever Load Binders


	Part Number	Description
	<b>45943-11</b>	Accepts 3/8"-1/2" Chain WLL: 9,200 lbs. Wt. 13.0 lbs.
	<b>45943-10</b>	Accepts 5/16"-3/8" Chain WLL: 5,400 lbs. Wt. 8.0 lbs.

Ratchet Load Binders

	Part Number	Description
	<b>45943-20</b>	Accepts 5/16"-3/8" Chain WLL: 5,400 lbs. Wt. 11.0 lbs.
	<b>45943-21</b>	Accepts 3/8"-1/2" Chain WLL: 9,200 lbs. Wt. 13.5 lbs.


## Series E Cam Buckle Straps with Spring End Fittings (CCS)

Popular straps for securing light to medium loads. WLL: 833 lbs

	Part Number	Description
	<b>40602-17</b>	12-ft, - Yellow Webbing. Weight: 1.90 lbs.
	<b>40602-18</b>	16-ft, - Gray Webbing. Weight: 2.10 lbs.


## Series E Ratchet Buckle Straps (CCS)

Low profile ratchet buckle makes tensioning more convenient for securing loads. WLL: 1,000 lbs


	Part Number	Description
	<b>48672-13</b>	12-ft, - Yellow Webbing. Weight: 3.20 lbs.
	<b>48672-14</b>	16-ft, - Gray Webbing. Weight: 3.30 lbs.

## Transport Chain (CCS) Grade 70- meets NACM standards


Chain Assemblies with Clevis Hooks

	Part Number	Description
	<b>45880-11</b>	Bulk Chain - 3/8" Chain x 200' Wt: 248 lbs.
	<b>45881-10-16</b>	5/16" x 16" WLL: 4,700 lbs.
	<b>45881-10-20</b>	5/16" x 20" WLL: 4,700 lbs.
	<b>45881-11-20</b>	3/8" x 20" WLL: 6,600 lbs.

Clevis Hooks

	Part Number	Description
	<b>45946-11</b>	3/8" Clevis Hook, Wt: 1.10 lbs.
	<b>45946-10</b>	5/16" Clevis Hook, Wt: .85 lbs.

## Series E Logistic Track (CCS)

	Part Number	Description
	<b>48117-21-120</b>	Galvanized - Weight: 17.2 lbs./10-ft.

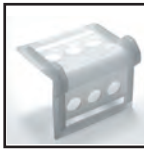
## Accessories (CCS)

	Part Number	Description
	<b>40921-10</b>	Standard Beam Socket, For use w/ commercial grade, Douglas Fir 2" x 6" lumber. Weight: .70 lb.



### Corner Protectors (CCS)

Full line of corner protectors to protect your straps and cargo



Part Number	Description
<b>43986-10</b>	High Density Polymer For up to 4" web straps Weight: .06 lb.

### Jack Bars (CCS)

Ancra's jack mechanism makes quick work of securing loads.



Part Number	Description
<b>49205-26</b>	Heavy Duty One-Piece - Galvanized finish for corrosion resistance. Adjustment range: 85.0-114.0-in. Weight: 18 lbs.

### Cargo Sta® Load Bars Steel Cargo Sta® with Bolt-On Feet (CCS)



Part Number	Description
<b>48407-10</b>	Adjustment range 89.75-104.5-in. Weight: 11.72 lbs.

### Winch Track (CCS)

For standard C track and Double L track slider winches



Part Number	Description
<b>42357-11</b>	Steel C Track - Formed from high strength 1/4" steel plate Length: 6'. Weight: 39 lbs.

### Coil Rack (CCS)

Available in both light duty and heavy duty models for your specific applications

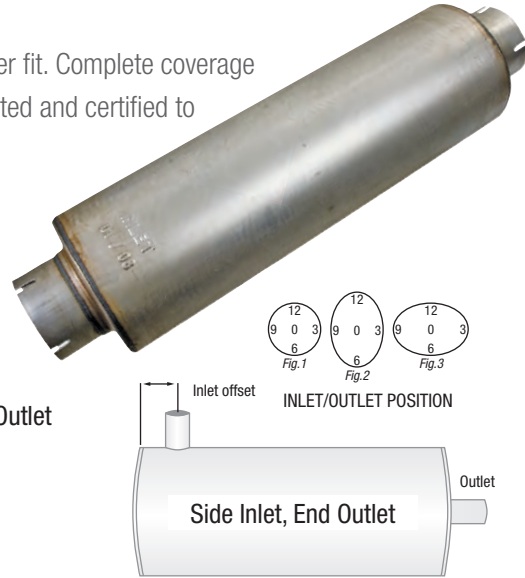
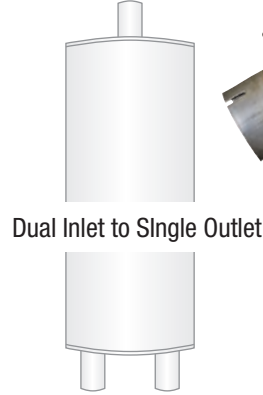
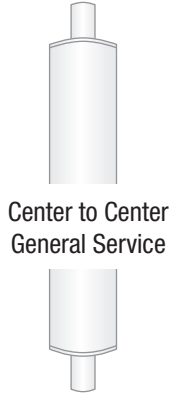


Part Number	Description
<b>49344-10</b>	Light Duty, 10 gauge steel, Weight: 5.7 lbs

# Exhaust

## Heavy Duty Mufflers (WAL)

Designed and manufactured to meet original equipment tolerances for proper fit. Complete coverage of all fleet, school bus, industrial and agricultural applications. Designed, tested and certified to meet federal noise regulations and to provide a safe product.



Part Number	Style	Inlet ID	Outlet ID	Inlet Position	Outlet Position	Figure	Inlet Offset	Outlet Offset	Cross Section	Shell Length	Overall Length
22999	Center to Center	4"	4"	—	—	—	—	—	7"	36"	43"
22936	Center to Center	4"	4"	—	—	—	—	—	8 1/2"	44"	51"
22966	Center to Center	4"	5"	—	—	—	—	—	10"	44"	51"
22940	Center to Center	5"	5"	—	—	—	—	—	9"	43 1/2"	51"
22823	Center to Center	5"	5"	—	—	—	—	—	9"	44 1/2"	51"
22924	Center to Center	5"	5"	—	—	—	—	—	10"	44 1/2"	51"
21475	Offset to Offset	2 1/2"	2 1/2"	12	6	1	1 13/32"	1 13/32"	6 5/8"	28"	35"
22551	Offset to Offset	3 1/2"	4"	12	6	2	2 1/2"	2 1/2"	8 1/2" x 11"	30"	36 3/8"
22866	Dual Inlet to Single Outlet	2 1/2" - 2 1/2"	2 3/4"	6-6	6	1	1 3/4" - 1 3/4"	2"	8 1/2"	30"	39"
22897 *1	Dual Inlet to Single Outlet	2 1/2" - 2 1/2" *2	3" (OD)	6-6	12	1	1 5/8" - 1 5/8"	2"	8 3/4"	30"	38 7/8"
22643	Side Inlet, End Outlet	4"	4"	3	12	1	4 1/2"	2 1/2"	11"	36"	40"
21468	General Service	3"	3"	—	—	—	—	—	6"	21"	30"
22572	General Service	4"	4"	—	—	—	—	—	7"	22"	28"
22920	General Service	5"	5"	—	—	—	—	—	10"	44"	51"

\*1 Spherical Flare

\*2 Wrapped Muffler Center Inlet

NOTE: Muffler Offsets and Positions should be measured and viewed from the Inlet end.

## Pre-Cut Flex Hose (WAL)

Style ID-ID



Stainless #	Galvanized #	Length
4" Diameter		
42423	42067	18"
42338	42069	24"
43202	43381	36"

Stainless #	Galvanized #	Length
5" Diameter		
41693	41694	12"
42424	42068	18"
42339	42070	24"
43203	43382	36"



### Flex Tubing (WAL)

Stainless Standard Thickness	Aluminized Heavy-Duty Thickness	Galvanized Heavy-Duty Thickness	ID
10 Foot Lengths			
-	-	49077	2"
-	-	49029	3 1/2"
49034	49070	49030	4"
49035	49071	49031	5"
25 Foot Lengths			
-	50010	-	3"
40022	-	40011	4"
40023	-	40012	5"

### ALUMINIZED ID - ID CONNECTOR (WAL)

Connects O.D. pipes of the same size.

Part Number	ID - ID	Length
41940	2" - 2"	4"
41957	2 1/2" - 2 1/2"	4"
41812	3" - 3"	4"



### Aluminized ID - OD Reducer (WAL)

Reduces larger O.D pipe to smaller I.D pipe.

Part Number	ID - OD	Length
41999	2 3/4" - 2 1/2"	6"
41974	3" - 2 1/2"	6"



### Aluminized ID - ID Reducer (WAL)

Reduces O.D pipes of different sizes.

Part Number	ID - ID	Length
41687	2 3/4" - 2 1/2"	6"
41973	3" - 2 1/2"	6"



### Connectors (WAL)

Connects I.D and O.D pipes of the same size.

Part Number	ID - OD	Length
41970	3" - 3"	6"



### Aluminized 45° Elbows (WAL)

One end is I.D., the other end is O.D.

Aluminized #	Diameter	Style	Length A-B	Centerline Radius
41187	2"	ID-OD	6"-6"	5"
41188	2 1/4"	ID-OD	6"-6"	4 1/2"
41437	2 1/2"	ID-OD	6"-6"	4"
42760	3"	ID-OD	7"-7"	6"
42758	4"	ID-OD	9 1/4"-9 1/4"	8"

### Aluminized & Chrome 90° Elbows (WAL)

One end is I.D., the other end is O.D.

Aluminized Part Number	Chrome Part Number	Diameter	Length A-B	Centerline Radius
41441	—	2 1/2"	12"-12"	5"
41365	—	3"	8"-8 1/4"	6"
43166	—	3 1/2"	9"-9"	4 1/2"
41630	—	4"	8"-8"	4 1/2"
41367	—	4"	10"-10"	4 1/2"
—	29109	4"	12"-12"	6"
41769	—	5"	8 1/2"-8 1/2"	6"
43613	29210	5"	11"-11"	5 1/2"
41532	29212	5"	11"-11"	7 1/2"
42858	29129	5"	15"-15"	10"

### Aluminized & Chrome 90° Elbows (WAL)

Both ends are O.D.

Aluminized PN	Chrome PN	Diameter	Length A-B	Centerline Radius
41436	—	5"	12"-12"	6"
—	29121	5"	12"-12"	8"

### Gaskets (WAL)

Part Number	Description
31394	Gasket



## 180 Deg. Muffler Shields (WAL)

PN	Specifications
29042	Stainless Steel 8 1/2" - 10" x 51" Muff. Shield W/O Mtng. Clamps, Round Holes

## 180 Deg. Pipe Shields (WAL)

PN	Specifications
29041	Stainless Steel 4" - 5" x 48" Pipe Shield W/O Mtng. Clamps, Round Holes

## 270 Deg. Muffler Shield And Clamp Kit (WAL)

PN	Specifications
29051	Stainless Steel 9" - 10" x 51" Muff. Shield W/O Mtng. Clamps, Round Holes



809500

## Rain Caps (WAL)

PN	Material Finish	Min. O.D. Size	Max. O.D. Size
35225	Powder Coating	1 1/2"	1 11/16"
35512	Powder Coating	2"	2 3/16"
35514	Powder Coating	2 1/2"	2 11/16"
35618	Powder Coating	3"	3 3/16"
35619	Powder Coating	3 1/2"	3 11/16"
35907	Powder Coating	4"	4 3/16"
35909	Powder Coating	4 1/2"	4 11/16"
35910	Powder Coating	5"	5 3/16"
35393	Powder Coating	6"	6 1/8"



## Stack Pipes (WAL) Angled (ID)

P/N ALUMINIZED	P/N CHROME	INLET DIA	LENGTH
42715	42129	4" ID	18"
42071	29206	4" ID	24"
43320	29305	4" ID	36"
—	29600	4" ID	72"
—	29112	5" ID	18"
—	29207	5" ID	24"
—	29306	5" ID	36"
—	29603	5" ID	72"
—	29701	5" ID	84"



## Preformed Band Clamp (WAL)

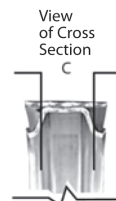
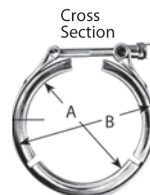
Lap joint

PN	Size	Material
Lap Joint		
33967	3"	Aluminized Steel
33969	4"	Aluminized Steel
33970	5"	Aluminized Steel
33224	4"	Bright 304 Stainless Steel
33225	5"	Bright 304 Stainless Steel
Butt Joint		
33278	3"	Bright 304 Stainless Steel



## V-Band Clamps (WAL)

PN	Tube Dia.	A	B	C
35500	5.00"	4.97"	5.25"	0.26"
35036	4.00"	4.12"	4.81"	0.40"
35290	4.00"	4.19"	4.75"	0.40"
35806	5.00"	5.32"	5.88"	0.40"
35695	3.00"	3.32"	3.88"	0.40"
35496	3.50"	3.69"	4.25"	0.40"
35499	4.00"	4.13"	4.75"	0.16"
35695	3.00"	3.26"	3.82"	0.21"



Heavy Duty 3/8"  
U-Bolt Truck Clamps



Heavy Duty  
Guillotine Clamps



Flat Band Clamps

## Clamps (WAL)

Aluminum	Stainless	Zinc	Chrome	Size	Box Qty
Heavy Duty 3/8" U-Bolt Truck Clamps					
		35752	—	4"	1
		35775	—	5"	1
Heavy Duty Guillotine Clamps					
		35786		3"	1
		35788	35776	4"	1
		35789	35777	5"	1
Flat Band Clamps					
16021	36439	—	35444	3"	1
35227	36441	—	35776	4"	1
35228	36442	—	35777	5"	1

## Heavy Duty Wiper Blades (CWP)

CARQUEST offers the largest selection of heavy duty wiper products on the market today. With a full line of wiper blades, CARQUEST has the wiper products for virtually all of your heavy duty truck, bus and recreational vehicle needs. All heavy duty wiper blades and refills feature durable metal construction and a heavy duty natural rubber wiping element for quality performance under demanding conditions.

CARQUEST heavy duty wiper blades are available in a variety of configurations from 12" to 28", with adaptors to permit easy installation onto competitive wiper arms.

*For our full line coverage, please see our CARQUEST Heavy Duty Wiper Application Guide.*



Flat Blade

Part Number	Size
61-120	12"
61-131	13"
61-140	14"
61-150	15"
61-160	16"
61-170	17"
61-180	18"
61-190	19"
61-200	20"
61-210	21"
61-220	22"



Five Bar Blade

Part Number	Size
63-120	12"
63-140	14"
63-150	15"
63-160	16"
63-180	18"
63-181	18"
63-200	20"



Three Bar Blade

Part Number	Size
64-160	16"
64-180	18"
64-200	20"



Vented Blade

Part Number	Size
68-241	24"
68-261	26"
68-281	28"



Wide Saddle Blade

Part Number	Size
67-221	22"
67-241	24"
67-261	26"
67-281	28"



Winter Blade

Part Number	Size
66-130	13"
66-150	15"
66-180	18"
66-200	20"



Side Lock Blade

Part Number	Size
65-200	20"
65-220	22"





## A Century Of Leadership and Innovation

Grote is a world leader in vehicle safety systems, providing a wide range of components for original equipment manufacturers and the vehicle aftermarket.

Products include: Lamps, emergency lighting, flashers, and forward lighting wiring harnesses, coil cords, turn signal switches reflectors and conspicuity tape, back-up alarms, mirrors and mirror bracketry.

Grote products are used as original equipment on semi-tractors and trailers, passenger cars, buses, industrial vehicles, recreational vehicles and agricultural machinery. Grote products are also sold in the heavy-duty aftermarket, the automotive retail environment, and the marine and recreational market.



## Stop / Tail / Turn Lamps (LTG)

**53252** Red **53253** Yellow

SuperNova® 4" 10-Diode Pattern Stop / Tail / Turn LED Lamp (STT)



- Lens design spreads light for maximum dispersion
- Encapsulant potting for total circuit board protection
- Hermetic lens-to-housing seal
- Advanced Pin Connection System uses tin-plated, solid brass pin terminals
- Uses same UBS pigtail as Male Pin incandescent

Material	FMVSS	Finish	Voltage Amp
ABS/Acrylic	S/T/T-I, P2, S, T Auxiliary-P2	Red / Yellow	Red-12V / .24A (I,S) / .03A (T) Yellow-12V / .15A (P2)

**LED**

**54342** Red

Grote Select® 4" LED Stop / Tail / Turn



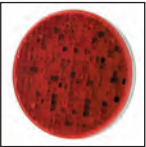
- Longer life than incandescent lamps
- Faster light-on response time for safety
- Provides greater stopping alert distance than incandescent lamps
- Less current draw than standard incandescent lamps increases fuel efficiency, leaves more voltage available to other vehicle systems
- Uses existing pigtails and wiring for cost-effective retrofit
- Resemblance to incandescent light alleviates theft concerns
- Hermetic lens-to-housing seal prevents moisture intrusion

Material	FMVSS	Finish	Voltage Amp
ABS / Acrylic	S / T / T- I, P2, S, T; Auxiliary- P2	Red	12V / .24A (I,S) / .03A (T)

**LED**

**G4002** Red **G4003** Yellow

Hi Count® 4" Stop / Tail / Turn LED Lamp



- Female pin termination accepts all popular plug-in connectors
- Concentric, high-count diode design: 24 in red, 39 in yellow
- Fits all popular mountings and grommets
- G4012 Kit with grommet, light and pigtail

Material	FMVSS	Finish	Voltage Amp
Polycarbonate / Acrylic	Red-I, P2, S, T Yellow-I	Red / Yellow	Red-12V / .48A (I,S) .04A (P2,T) Yellow-12V / .71A (I)

**LED**

**52772** Red **52773** FRONT PARK/TURN - Yellow

STOP/TAIL/TURN 4" Torsion Mount® II Stop / Tail / Turn Lamp



- Torsion Mount® II Gel-Mount® bulb cradle design
- Heavy-duty bulb provides greater reliability
- Female receptacle accepts all popular plug-in connectors

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	Red - I, P2, S, T; Yellow - I, P; 52770 - I, S, T	Red / Yellow	12V / 2.1A (I,S), .48A (P2,T)

## Stop / Tail / Turn Lamps (LTG)

**52922** Red **52923** Yellow **53012** Red Kit

STOP/TAIL/TURN 4" Economy Stop/Tail/Turn Lamp



- Standard female connection
- 4" diameter lamp
- Fits all competitive pigtails, brackets and grommets
- Hermetic lens-to-housing seal
- 53012 Kit Contains: Light, Grommet and Pigtail

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate	Red - I, P2, S, T; Yellow - I, P	Red/ Yellow	32/2 CP	12V - 2.1A (I,S), .48A (T,P,P2)

**52892** Red **52893** FRONT PARK/TURN - Yellow

STOP/TAIL/TURN Oval Torsion Mount® III Stop/Tail/Turn Lamp



- Torsion Mount® III, Gel-Mount® bulb cradle design minimizes bulb vibration
- Double contact
- Uses UBS pigtail
- Oval style lamp fits competitors' grommets and brackets

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate	Red - I, P2, S, T, Yellow - I, P	Red / Yellow	32/3 CP	12V / 2.1A (I,S), .59A (P,P2,T)

**53962** Red **53963** Yellow

SuperNova® LED Oval Stop / Tail / Turn Lamp (STT)



- Advanced pin connection system uses tin-plated, solid-brass terminals
- Encapsulant potting covers LED circuit board
- Male pin termination for premium sealability
- Meets specifications for vertical and horizontal mounting

Material	FMVSS	Finish	Voltage Amp
ABS/Acrylic	Red-I, P2, S, T Yellow-P2	Red / Yellow	Red-12V-.48A (I,S) / .06A (T) Yellow-12V - .48A

**LED**

## Side Turn / Market Lamps (LTG)

**52513** Yellow

IDE TURN/MARKER Oval Torsion Mount™ III Side Turn/Marker Lamp



- Torsion Mount® III, Gel-Mount® bulb cradle design minimizes bulb vibration
- Extended dome for added visibility from front and rear
- Fits standard oval lamp grommets and brackets
- Exceeds SAE J914 Nov. '87
- Contains reflex reflector

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate	Red - A, P2;Yellow - A, E, P2, P3	Yellow	32/3 CP	12V/2.1A (E), .59A (P2,P3)

**G6002** Red **G6003** Yellow

Hi Count® 56-Diode Oval Stop / Tail / Turn LED Lamp



- Female-pin terminations accept all popular plug-in connectors
- Fits same connections as female incandescent lamps
- Lower amp draw of LEDs allows for use of more lamps without draining vehicle power
- LEDs provide greater stopping distance for trailing vehicles

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	I,S,T, P, P2	Red / Yellow	12V-.43A (I,S) / .05A (T)

**LED**

**53063** Yellow, White Base

SIDE TURN/MARKER Sealed Sentry Combination Marker/Side Turn Lamp



- High-impact base
- Uses male-pin termination; accepts UBS pigtail
- Not recommended for rear of vehicles in padded dock applications
- Yellow exceeds SAE J914 Nov. '87
- Sentry lamp is available only from Grote Industries

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate	53063 - E2, P2	Yellow	Multi-Function - 21/6 CP	12V - 1.34A (E2) / .59A (P2)

**54172** Red

Grote Select® Oval LED Stop / Tail / Turn Lamp



- Specially formulated encapsulant potting protects against moisture, vibration and corrosion
- Fits current mounting flanges and grommets
- Female-pin termination accepts all popular connections

Material	FMVSS	Finish	Voltage Amp
ABS / Acrylic	I6, P, S, T, P2	Red	12V / .48A (I,S) / .04A (P2, T)

**LED**

## Clearance / Markers (LTG)

**47112** Red **47113** Yellow

SuperNova® 2" Clearance / Marker LED Lamp



- Encapsulant potting for total circuit board protection
- Hermetic lens-to-housing seal
- Uses same UBS double-seal pigtail as incandescent for quick Plug-and-Go® retrofit
- Tin-plated, solid-brass terminals are sealed to housing, to resist corrosion and eliminate failure-causing leak paths

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	P2	Red / Yellow	12V / .06A

**LED**

**G1032** Red **G1033** Yellow

Hi Count® 2 1/2" Clearance / Marker LED Lamp



- Hermetic lens-to-housing seal
- Uses the same UBS double-seal pigtail as the incandescent version for a quick Plug-and-Go® retrofit
- Twist-on mounting for easy installation
- Concentric, multiple-diode layout
- Fits all popular mountings and grommets

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	Optic-P2	Red / Yellow	Optic-12V / .15A

**LED**

**G3002** Red **G3003** Yellow

Hi Count® 2" 9-Diode, Clearance / Marker LED Lamp



- Hermetic lens-to-housing seal
- Uses the same UBS double-seal pigtail as the incandescent version for a quick Plug-and-Go® retrofit
- Twist-on mounting for easy installation
- Concentric, multiple-diode layout
- Fits all popular mountings and grommets

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	P2	Red / Yellow	12V / .09A

**LED**

**45812** Red **45813** Yellow

OPTIC LENS 2 1/2" Clearance / Marker Lamp



- Hermetic lens to housing seal
- Twist-on mounting for easy installation
- Fits all competitive and popular mounting devices
- 12-volt version features a 12,000+ hour bulb
- Optic version only, meets PC function only when mounted at a 45° angle, recommended bracket: 43690; grommets: 91880, 91890 or 92920

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate, Acrylic	Optic - P2, P3, PC, PC2	Red / Yellow	2 CP	12V / .33A

**45822** Red **45823** Yellow

OPTIC LENS 2" Clearance / Marker Lamp



- Fits narrow rails and other tight applications
- Hermetic lens-to-housing seal
- Twist-on mounting for easy installation
- Fits all competitive mounting devices
- 12-Volt version features a 12,000+ hour bulb
- Meets PC function only when mounted at a 45° angle, recommended bracket 43690

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate	P2, P3, PC, PC2	Red / Yellow	2 CP	12V / .33A

**45832** Red **45833** Yellow

BUILT-IN REFLECTOR 2 1/2" Clearance / Marker Lamp



- Hermetic lens to housing seal
- Twist-on mounting for easy installation
- Fits all competitive and popular mounting devices
- 12-volt version features a 12,000+ hour bulb
- Recommended bracket: 43690; grommets: 91880, 91890 or 92920

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate, Acrylic	Reflex - A, P2, P3	Red / Yellow	2 CP	12V / .33A

**47122** Red **47123** Yellow

SuperNova® 2 1/2" Clearance / Marker LED Lamp



- Encapsulant potting for total circuit-board protection
- Hermetic lens-to-housing seal
- Uses same UBS double-seal pigtail as incandescent version for a quick Plug-and-Go® Retrofit
- Tin-plated, solid-brass terminals are sealed to housing, to resist corrosion and eliminate failure-causing leak paths

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	P2	Red / Yellow	12V / .06A

**LED**

**47082** Red **47083** Yellow

SuperNova® Clearance / Marker LED Lamp



- Encapsulant potting for total circuit board protection
- Hermetic lens to housing seal
- Tin-plated, solid brass terminals are sealed to housing, to resist corrosion and eliminate failure-causing leak paths
- Uses the same UBS double seal pigtail as incandescent for a quick Plug-and-Go® retrofit

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	P2	Red / Yellow	12V / .06A

**LED**

## Clearance / Markers (LTG)

**46412** Red **46413** Yellow

### Clearance / Marker Lamp



- Hermetic lens to housing seal
- 12-volt version features a 12,000+ hour bulb
- Uses double-seal UBS pigtail
- Rectangular shape fits narrow applications
- Meets PC function only when mounted at a 45° angle, recommend bracket 43370 or 43380

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate	P2, PC	Red / Yellow	2 CP	12V / .33A

**45262** Red **45263** Yellow

### Two-Bulb Oval Pigtail-Type Clearance / Marker Lamp



- Standard snap-on lens for easy bulb replacement
- Two stainless-steel grounds
- Exclusive internal armor for additional bulb protection
- Corrosion-resistant contacts
- Meets PC function only when mounted at a 45° angle

Material	FMVSS	Finish	Bulb	Voltage Amp
DURAMOLD® Acrylic, Polycarbonate	Optic P2, PC	Red / Yellow	(2) #1893, 2 CP	12V / .66A

**47092** Red **47093** Yellow

### SuperNova® Clearance / Marker LED Lamp



- Encapsulant potting for total circuit board protection
- Hermetic lens to housing seal
- Advanced pin connection system
- Uses same UBS pigtail as incandescent for a quick Plug-and-Go® retrofit
- Meets PC function only when mounted at a 45° angle, recommend bracket 43850

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	P2	Red / Yellow	12V / .06A

**LED**

**G4602** Red **G4603** Yellow

### Hi Count® Square-Corner 13-Diode Clearance / Marker LED Lamp



- Molded snap-ring
- Bullet-proof potted circuit board for total protection against moisture and vibration
- Field-replaceable lens

Material	FMVSS	Finish	Voltage Amp
Polycarbonate / Acrylic	P2	Red / Yellow	12V / .15A

**LED**

**46742** Red **46743** Yellow

### Clearance / Marker Lamp



- Rectangular, double bulb lamp
- 12-volt version features a 12,000+ hour bulb
- Narrow mounting applications
- Hermetic lens-to-housing seal
- Meets PC function only when mounted at a 45° angle, recommended bracket 43850
- 46740 - Yellow/Red Lens

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate	Red and Yellow - P2, P3, PC, PC2, Split Lens - P2	Red / Yellow	(2) 2 CP	12V / .66A

**46792** Red **46793** Yellow

### DURAMOLD® Two-Bulb Square-Corner Clearance / Marker Lamp



- Corrosion-resistant contacts
- Snap-on lens for easy bulb replacement
- Attached blunt cut pigtail
- Meets PC function only when mounted at a 45° angle

Material	FMVSS	Finish	Bulb	Voltage Amp
DURAMOLD™ /Acrylic	P2, P3, PC	Red / Yellow	(2) #1893, 2 CP	12V / .66A

**47242** Red **47243** Yellow

### SuperNova® 3" Center Thin-Line Clearance / Marker LED Lamp



- 3" mounting center
- Field-replaceable lens
- Encapsulant potting for total circuit-board protection
- Anti-torque design protects against over-tightening and lens cracking
- Wire exit holes at ends allow for flow-through harnessing
- Meets PC function only when mounted at a 45° angle
- ABS Lamp - 78453

Material	FMVSS	Finish	Voltage Amp
Polycarbonate	P2	Red /Yellow	12V / .06A

**46782** Red **46783** Yellow

### Die-Cast Two-Bulb Square-Corner Clearance / Marker Lamp



- Shock-absorbing bulb mounting
- Lubricated fleet-service bulb
- Meets PC when mounted at a 45 degree angle

Material	FMVSS	Finish	Bulb	Voltage Amp
Zinc Die-Cast/ Acrylic	P2, P3, PC	Red / Yellow	(2) #1893, 2 CP	12V / .66A

## Clearance / Markers (LTG)

**47072** Red **47073** Yellow

SuperNova® Sealed Turtleback® II Clearance / Marker LED Lamp



- Encapsulant potting for total circuit-board protection
- Hermetic lens-to-housing seal
- Tin-plated, solid-brass terminals are sealed to housing, to resist corrosion and eliminate failure-causing leak paths
- Meets PC function only when mounted at a 45° angle
- Not designed for vertical mount

Material	FMVSS	Finish	Voltage Amp
Polycarbonate / Acrylic	Reflex-A, P2	Red / Yellow	12V / .06A



## Replacement Parts (LTG)

**50972** Red

REPLACEMENT PARTS Three-Stud Peterbilt®/Chevrolet®/Jeep®/GMC® Replacement Lamp with Pigtail



- Replaces Peterbilt® 16-02600R and 16-02600L
- Replaces Chevrolet®/GMC® 370867 and 370868
- Replaces Jeep® SF5457197 and SF5457198
- Features license window

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate / Acrylic	A, I, L, R2, S, T	Red	1156, 32 CP 1157, 32/3 CP	12V - 2.1A (R2) 12V - 2.1A (I,S) / .59A (T,L)

**46872** Red **46873** Yellow

REFLEX LENS Sealed Turtleback® II Clearance / Marker Lamp



- Shock-absorbing, heat-resistant lens and lamp base
- Hermetic lens-to-housing seal
- Waterproof male pin connections accept UBS pigtail
- Turtleback® lens design for maximum durability
- Two 12,000+ hour bulbs

Material	FMVSS	Finish	Bulb
Polycarbonate / Acrylic	Reflex - A, P2	Red / Yellow	(2) 2 CP

**52302** Red, RH, S/T/T **52312** Red, LH, S/T/T

REPLACEMENT PARTS Utility Trailer Lighting Kit



- Replaces Peterson® 440 Boat Lamp kit
- Twist-in bulb design makes it easy to replace
- Kit includes harness, license plate bracket, instructions, and complete wiring and installation kit
- 65370 - S-Kit with clearance and marker
- 65380 - S-Kit without clearance and marker

Material	FMVSS	Finish	Bulb	Voltage Amp
DURAMOLD™/ Acrylic	A, I, L, P2, S, T	Red	S/T/T-1157, 32/3 CP Marker-1895, 2 CP	12V - 2.1A (I,S) / .59A (T) 12V - .27A (P2)

## License Lamp (LTG)

**60001** Gray

DURAMOLD™ License Lamp



- Compact license lamp protrudes less than 2"
- Durable lens
- Housing snaps firmly into molded o-ring

Material	FMVSS	Finish	Bulb	Voltage Amp
ABS / Polycarbonate	L	Gray	#67, 4CP	12V / .59A

## Work Lamp / Auxilliary Light (LTG)

**64931** 12-Volt, Sealed Beam

Par 36 Rubber Tractor and Utility Lamp



- Shock-absorbing weather-proof body
- For versatile application as utility, fifth-wheel, backup, tractor, forklift or off-road vehicle lamp
- Swivel mount
- Trapezoid beam pattern

Material	Finish	Bulb	Voltage Amp
Rubber	Black	64931 - 4411, PAR 36, 35-Watt, 3,000CP	12V - 2.7 AMP

## Backup Lamp (LTG)

**62271** Clear

4" Torsion Mount® II Single System Backup Lamp



- Torsion Mount® II Gel-Mount® bulb cradle design
- Hermetic lens-to-housing seal
- Polycarbonate lens and body
- Meets backup function for single-lamp system

Material	FMVSS	Finish	Bulb	Voltage Amp
Polycarbonate	R	Clear	2057, 32 CP	12V / 2.1A



## Emergency / Warning (LTG)

**77362** Red (Emergency/Warning) **77363** Yellow

**LED**

Oval LED Strobe Lights



- Encapsulant potting protects the circuit board offering maximum protection against dirt, moisture and corrosion
- Internal circuitry eliminates the need for an external power supply or control module
- Requires only a 12-volt DC connection for power
- Functions as either a dual flash strobe or a quad flash strobe
- Lamps fit oval standard mounting holes
- Lamps mount in any orientation
- Grote's rugged Plug-and-Go® terminals make for a quick, easy connection every time

Material	FMVSS	Finish	Voltage Amp
ABS/Acrylic	Class II Red/Yellow Quad Class III Yellow Dual	Yellow/ Red	12V-.25A

**77101** Clear **77102** Red **77103** Yellow **77105** Blue

SINGLE FLASH Mighty Mini Strobe



- Rugged fiber glass filled Nylon base and polycarbonate lens
- Wide voltage operating range
- Field replaceable lens and flash tube
- Thread on lens
- 80 flashes per minute, 1.5 joules
- Reverse polarity and voltage spike protected
- Low Profile Height

Material	Finish	Bulb	Voltage Amp
ABS / Polycarbonate	Clear / Red / Yellow / Blue	Flash Tube	11V - 110V .25A at 12V

## Flashers (LTG)

**44530** 2 Terminal **44540** 3 Terminal

12-Lamp Electromechanical Flasher



- 60-120 flashes per minute
- Less than 4 mill volts per amp voltage drop
- Exceeds SAE 100 hour test
- Fits in a round flasher socket
- Flashes up to 12 Lamps

FMVSS	Bracket	Voltage Amp
J945, J590	43770	12 V - 2 to 25 AMP~>Lamp Load: 1-12 lamps

## Mirrors (LTG)

**16244** Aluminum Reflective - 87 sq. in.

Economy West Coast Mirror



- Aluminum back mirror
- 5/16" plated rod
- Silvered mirror
- 6" x 16"

Material	FMVSS	Finish	Bracket
Aluminum	111 Vehicles with GVWR Greater than 10,000 lbs.	Polished	22013, 22061, 22063

**12173** Stainless Steel Reflective: 46 SQIN

8" Round Convex Mirror with Offset Ball-Stud



- Easy mounting in tight installations
- Ball stud offset 2" from center
- 60" two-conductor, jacketed, blunt-cut cable
- 12813 Heated SS

Material	Finish	Voltage Amp
Stainless Steel, Steel	Stainless/Black	12813 - 12 V - 1.18 AMP

**12004** ROUND - 3"

Stick-On Convex Mirror

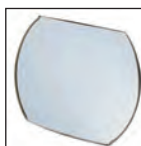


- Extends driver's view
- Bonds instantly
- Single strength silvered mirror
- Aluminum mirror back

Material	FMVSS	Finish
Aluminum	111, 96 hr corrosion test per ASTM B 117, passed 30lb pull test	Aluminum

**12164** RECTANGULAR - 4" x 5 1/2"

Stick-On Convex Mirror



- Extends driver's view
- Bonds instantly
- Single strength silvered mirror
- Aluminum mirror back

Material	FMVSS	Finish
Aluminum	111, 96 hr corrosion test per ASTM B 117, passed 30lb pull tes	Aluminum

## Pigtails (LTG)

### 67050 6" Long, Ring Terminal Ground, Blunt Cut Wire

#### Sealed Marker Lamp Pigtails



- Factory molded plugs for use with ULTRA-BLUE-SEAL® trailer wiring system
- Double seal resists corrosion
- Fits 2", and 2 1/2" round and beehive style LED and incandescent lamps

#### Other Product Numbers

67001 - 6" Long, Ring Terminal Ground, Blunt Cut Wire, Double Seal

66850 - 6" Long, Ring Terminal Ground, 180 Bullet Molded Plug

### 67000 11 1/2" Long, Chassis Ground, Blunt Cut Wires

#### Stop/Tail/Turn Three-Wire Plug-In Pigtails for Female Pin Lamps



- Dual function for S/T/T lamps
- Factory molded plugs for use with ULTRA-BLUE-SEAL® trailer wiring system

#### Other Product Numbers

66812 - 6" Long, Chassis Ground, Slimline .180 Male

66825 - 8" Long, Ground Return, Slimline .180 Male

## Grommets (LTG)

### 94000 Open Grommet Kit

#### 3" Hole Grommet



- Fits 2 1/2" round lamps
- Recessed lens-protective mounting
- Fits panel thickness up to 1/4"
- 91410 and 67050

Material	FMVSS	Finish
PVC	N/A	Black

### 92120 Open Grommet

#### 2 5/16" Hole Grommet"



- Fits 2" round lamps
- Fits panel thickness up to 1/4"

Material	FMVSS	Finish
PVC	N/A	Black

### 91400 Open Grommet

#### 2 25/32" Hole Grommet



- Fits 2 1/2" round lamps
- For use when increased visibility is preferred
- Lamp projects slightly above grommet line
- Fits panel thickness up to 1/8"

Material	FMVSS	Finish
PVC	N/A	Black

## Grommets (LTG)

### 94100 Open Grommet Kit

#### 2 5/16" Hole Grommet



- Fits 2" round lamps
- Fits panel thickness up to 1/4"
- 92120 and 67050

Material	FMVSS	Finish
PVC	N/A	Black

### 91740 Open Grommet

#### Grommet for 4" Round Lamps"



- Fits 4" round lamps
- Requires 4 1/2" hole
- Fits panel thickness up to 1/4"

Material	FMVSS	Finish
PVC	N/A	Black

### 94010 Open Grommet Kit

#### 2 25/32" Hole Grommet



- Fits 2 1/2" round lamps
- For use when increased visibility is preferred
- Lamp projects slightly above grommet line
- Fits panel thickness up to 1/8"
- 91400 and 67050

Material	FMVSS	Finish
PVC	N/A	Black

### 92420 Open Grommet

#### Grommet for Oval Lamps



- Fits oval lamps
- Fits 2.5" x 6.76" oval size hole
- Fits panel thickness up to 1/4"

Material	FMVSS	Finish
PVC	N/A	Black

## Brackets (LTG)

### 43362 Black

#### Mounting Bracket for Oval Lamps



- 90° angle bracket
- For use with oval lamps
- Grommet required for mounting (92420)

Material	Finish
Steel	Black Enamel

### 43572 Black

#### Mounting Bracket for 4" Round Lamps



- Fits 4" round lamps
- One 4 1/2" hole to hold one standard recessed or grommet-mounted factory-sealed lamp
- Use grommet 91740 for grommet mount lamps

Material	Finish
Steel	Black Powder Coated

## CSA Roadside Repair Kit (LTG)

Corrosion, grime, abuse, wear and tear - all enemies of a proper working electrical system. New regulations deliver harsher penalties to the driver and fleet for electrical system failures. That's why we have developed this roadside repair kit. Make quick fixes to your standard lighting issues without the costly service call.

The Grote Roadside Repair Kit offers 23 lighting and accessory components to get you back up and running without the cost of a ticket, minimizing down-time and saving you the points on your livelihood- that precious CDL and driving record. Keep this kit in all your trucks and mobile repair units.

- 54342 Grote Select 4" LED STT Red
- 66812 Three-Wire STT Plug-In Pigtails for Standard Pin Lamps
- 91740 Grommet for 4" Round Lamps
- 45822 2" Clearance/Marker Lamps Red
- 45823 2" Clearance/Marker Lamps Yellow
- 45812 2-1/2" Clearance/Marker Lamps Red
- 45813 2-1/2" Clearance/Marker Lamps Yellow
- 66851 Sealed Marker Lamp Pigtails
- 94100 2-5/16" Hole Grommet
- 43370 Rail-Mount Bracket Kit for Clearance/Marker Lamps
- 46412 Clearance /Marker Lamp Red
- 46413 Clearance/Marker Lamp Yellow



Part Number	Description
00990	CSA 110

- 46742 Clearance/Marker Lamp Red
- 46743 Clearance/Marker Lamp Yellow
- 46872 Sealed Turtleback® II Clearance/Marker Lamp Red
- 46873 Sealed Turtleback® II Clearance/Marker Lamp Yellow
- 92420 Grommet for Oval Lamps
- 52533 Oval Male Pin Torsion Mount™ III Side Turn/Marker Lamp Yellow
- Low Profile Mounting Bracket for Clearance/Marker Lamps
- 66910 Turtleback® II Double Seal Lamp Pigtails
- 40650-5 Conspicuity Tape
- 84-2380 Butt Connectors (Qty: 100)
- 83-6820 Zip Ties (Qty: 100)

# Trailer Accessories & Connectors

## PHILIPS

### QCP™ (Quick-Connect Plug) Cables (PHI)

- **FIELD REPAIRABLE IN SECONDS!**
- Replaceable cartridge for quick & easy repair on the road
- Unbreakable housing
- Plug is sealed for corrosion protection
- Flexible from -82°F to 195°F (-63°C to 91°C)
- Excellent recoil memory, chemical & abrasion resistance
- Replaceable cartridge PN: 16-125
- Large finger grips for coupling/uncoupling, even with gloves
- Protected with non-corrosive, non-conductive, dielectric grease
- PERMAPLUGS™ have machine-crimped terminals for increase conductivity
- Meets SAE J560 and J2394



Part Number	Description
<b>1/8, 2/10 &amp; 4/12 ABS Applications</b>	
30-9324	12', with Quick-Connect Plugs
30-9624	15', with Quick-Connect Plugs
30-9924	15', 48" lead, with Quick-Connect Plugs

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual cable is significantly longer.

**5 YEAR WARRANTY**

See [www.phillipsind.com](http://www.phillipsind.com) for details

## PHILIPS

### ABS LECTRACOIL™ Cables (PHI)

- Recommended for ABS applications and trailers with high voltage demands
- Flexible from -82°F to 195°F (-63°C to 91°C)
- Excellent recoil memory, chemical & abrasion resistance
- **UNBREAKABLE** PERMAPLUGS™ or heavy-duty, reinforced zinc die-cast housing
- Large finger grips for coupling/uncoupling, even with gloves
- Longer plug interior for easy maintenance
- Protected with non-corrosive, non-conductive, dielectric grease
- PERMAPLUGS™ have machine-crimped terminals for increase conductivity
- Meets SAE J560 and J2394



Part Number	Description
<b>1/8, 2/10 &amp; 4/12 ABS Applications</b>	
30-9620	15', with two PERMAPLUGS™
30-9621	15', with two zinc die-cast plugs

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual cable is significantly longer.

**3 YEAR WARRANTY**

See [www.phillipsind.com](http://www.phillipsind.com) for details



## PHILIPS

### ABS PERMACOIL™ Cables (PHI)

- Recommended for ABS equipped trailers with minimal voltage demands
- Large finger grips for coupling/uncoupling, even with gloves
- Longer plug interior for easy maintenance
- Protected with non-corrosive, non-conductive, dielectric grease
- Meets SAE J560, J2394 or ISO 3731
- Flexible from -87°F to 150°F (-66°C to 66°C)
- Good recoil memory, chemical & abrasion resistance

Part Number	Description
<b>1/8, 2/10 &amp; 4/12 ABS Applications</b>	
30-4321	12', with two zinc die-cast plugs
30-4621	15', with two zinc die-cast plugs

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual cable is significantly longer.

## PHILIPS

### PERMACOIL™ Cables (PHI)

- For standard 7-way applications, NON-ABS equipped trailers w/ minimal voltage demands
- Flexible from -87°F to 150°F (-66°C to 66°C)
- Good recoil memory, chemical & abrasion resistance
- **UNBREAKABLE** PERMAPLUGS™ or heavy-duty, reinforced zinc die-cast housing

Part Number	Description
<b>1/10 &amp; 6/12 ga NON-ABS Applications (For Vans &amp; Flatbeds)</b>	
22-4321	12', with two zinc die-cast plugs
22-4621	15', with two zinc die-cast plugs
<b>1/12 &amp; 6/14 ga NON-ABS Applications (For Flatbeds)</b>	
24-4320	12', with two PERMAPLUGS™
24-4321	12', with two zinc die-cast plugs
24-4620	15', with two PERMAPLUGS™
24-4621	15', with two zinc die-cast plugs

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual cable is significantly longer.

## PHILIPS

### Socket Boots (PHI)

Part Number	Description
15-640	Fits 15-400 & 15-600
15-740	Fits 15-720, 15-721, 15-722, 16-720, 16-721, 16-722, 16-822





# Trailer Accessories & Connectors



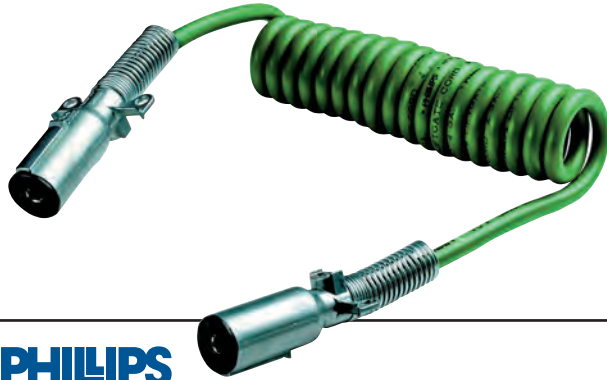
## PHILIPS

### 6 & 4-Way Light-Duty Coil Cables (PHI)

- For light-duty towing applications such as boats & utility trailers
- Plugs are molded for moisture & corrosion resistance
- Same heavy-duty jacket as our PERMACOIL™ and ABS PERMACOIL™
- Flexible from -87°F to 150°F (-66°C to 66°C)

Part Number	Description
<b>4-Way Coil - 4/16 ga</b>	
19-4710	10' working length with two THERMOSEAL™ plugs
<b>6-Way Coil - 6/16 ga</b>	
19-6708	8' working length with two THERMOSEAL™ plugs
19-6710	10' working length with two THERMOSEAL™ plugs
19-6712	12' working length with two THERMOSEAL™ plugs

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual cable is significantly longer.



## PHILIPS

### Liftgate Charging Single Pole Cables (PHI)

- For liftgate applications utilizing trailer battery pack
- 4 ga fine stranded copper for flexibility
- 100 amp capacity
- Good recoil memory, chemical & abrasion resistance
- Flexible from -87°F to 150°F (-66°C to 66°C)
- Heavy-duty, reinforced zinc die-cast housing
- Mates with single pole metal socket 15-320

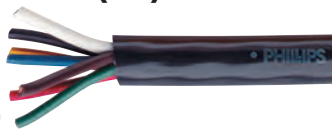
Part Number	Description
<b>1/4 ga Fine Stranded Copper</b>	
23-4325	12', 1 hot, 1 00 amp capacity
23-4625	15', 1 hot, 100 amp capacity

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual cable is significantly longer.

## PHILIPS

### DURAFLEX™ Bulk Harness Cable (PHI)

- For general trailer re-wiring
- Black jacket
- Stays flexible to -40°F (-40°C)
- Meets SAE J1128 specifications

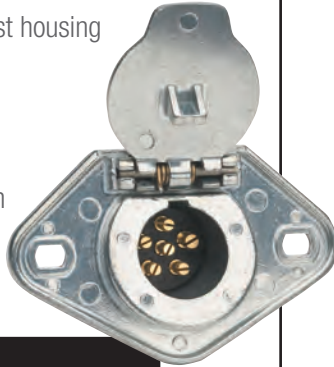


Part Number	Description	Package
<b>7 Conductor - 1/10, 6/12 ga .570 O.D.</b> <i>Black - Brown - Blue - Green - Red - White - Yellow</i>		
3-221	50'	Spool
3-222	100'	Spool
<b>7 Conductor - 1/12, 6/14 ga .500 O.D.</b> <i>Black - Brown - Blue - Green - Red - White - Yellow</i>		
3-241	50'	Spool
3-242	100'	Spool
<b>6 Conductor - 6/14 ga .500 O.D.</b> <i>Black - Brown - Green - Red - White - Yellow</i>		
3-201	50'	Spool
3-202	100'	Spool
<b>4 Conductor - 4/14 ga .400 O.D.</b> <i>Brown - Yellow - Green - White</i>		
3-191	50'	Spool
3-192	100'	Spool

## PHILIPS

### 6 & 4-Way Sockets (PHI)

- Heavy-duty, zinc die-cast housing for durability
- Elongated holes for mounting adaptability
- Stainless steel hinge pin and spring for long life
- Full-opening lid



Part Number	Description
15-600	6-way, wire insertion, split pin <ul style="list-style-type: none"> <li>• Mates with 15-610 and 15-630</li> </ul>
15-400	4-way, wire insertion, split pin <ul style="list-style-type: none"> <li>• Mates with 15-410 and 15-430</li> </ul>

## PHILIPS

### 7-Way Sockets (PHI)

- Heavy-duty, reinforced zinc die-cast housing
- Thread sealed screws prevent wire pull-out
- Elongated holes for mounting adaptability
- Stainless steel hinge pin and spring
- Full-opening lid



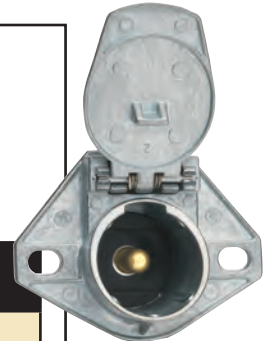
Part Number	Description
15-720	2-hole, wire insertion, split pin
15-720D	15-720, retail clamshell
15-721	2-hole, wire insertion, solid pin

## PHILIPS

### Single Pole Socket (PHI)

- Zinc die-cast housing for durability
- Solid brass pin
- Elongated holes for mounting adaptability
- Stainless steel hinge pin and spring for long life

- Mates with 15-335 single pole plug
- For use with 4 ga, 5/16" copper lug



Part Number	Description
15-320	Single pole socket

## PHILIPS

### Single Pole Plug (PHI)

- Installs with standard lug crimp tool (crimp code gray)
- Lug for 4 gauge cable included
- Universal single pole plug
- Industry-standard plug
- Mates with 15-320 socket



Part Number	Description
15-335	Single pole plug

## PHILIPS

### PERMAPLUG™ (PHI)

- Shock absorbing insert bumper protects housing from impacts
- Spring-wrapped, machined brass compression pins
- 360° ratcheting compression cable clamp
- Thread sealed screws prevent wire pull-out
- **UNBREAKABLE**, non-corrosive housing
- 15-711 replacement insert



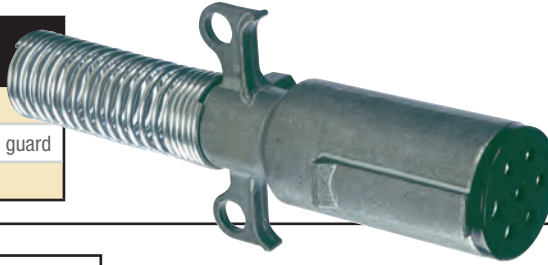
Part Number	Description
16-730	PERMAPLUG™

## PHILIPS

### Zinc Die-Cast Plug (PHI)

- Thread sealed screws prevent wire pull-out
- Shock absorbing insert bumper protects housing from impacts
- Heavy-duty, reinforced zinc die-cast housing
- Strong cable guard to support heavy cables
- Spring-wrapped, machined brass compression pins
- 15-711 replacement insert
- 15-731 replacement cable guard

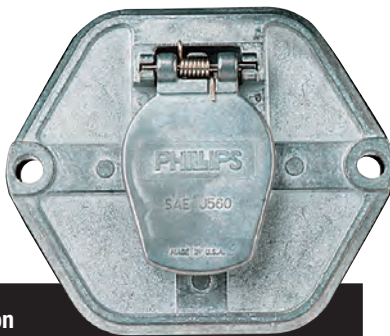
Part Number	Description
15-710	Heavy-duty, reinforced zinc die-cast plug
15-730	Heavy-duty, reinforced zinc die-cast plug w/ cable guard
15-730D	15-730, individual clamshell



## PHILIPS

### 7-Way Low Profile STA-DRY® Zinc Die-cast Socketbreaker (PHI)

- Meets SAE J560 specifications
- Stainless steel hinge pin and spring
- Full-opening lid
- Sealed to prevent moisture & contaminants from entering the harness system
- Raised interior ribs for moisture exit
- Includes neoprene closed cell sponge mounting gaskets
- Quick-change circuit breaker can be replaced in 30 seconds
- For container chassis, piggy-back and intermodal trailers where flush applications are required
- Circuit breaker designed to be serviced in 30 seconds
- Allows up to 5 ground circuits



Part Number	Description
15-750	Without circuit breaker, split pin
15-752	With 20 amp circuit breakers, split pin
15-753	With 30 amp circuit breakers, split pin

## PHILIPS

### 7-Way Extended Barrel STA-DRY® Zinc Die-cast Socketbreaker (PHI)

- Meets SAE J560 specifications
- Stainless steel hinge pin and spring
- Full-opening lid
- Sealed to prevent moisture & contaminants from entering the harness system
- Raised interior ribs for moisture exit
- Includes neoprene closed cell sponge mounting gaskets
- Quick-change circuit breaker can be replaced in 30 seconds
- Designed to support ABS cable weight
- Circuit breaker designed to be serviced in 30 seconds
- Allows up to 5 ground circuits



Part Number	Description
15-760	Without circuit breaker, split pin
15-762	With 20 amp circuit breakers, split pin
15-763	With 30 amp circuit breakers, split pin

## PHILIPS

### 7-Way STA-DRY® Socketbreaker (PHI)

- Sealed to prevent moisture & contaminants from entering the harness system
- Non-corrosive housing
- Stainless steel hinge pin and spring
- Quick-change circuit breaker can be replaced in 30 seconds
- Raised interior ribs for moisture exit
- Includes neoprene closed cell sponge mounting gaskets
- Full-opening lid
- Allows up to 5 ground circuits



Part Number	Description
16-762	With 20 amp circuit breakers, split pin
16-763	With 30 amp circuit breakers, split pin

## PHILIPS

### Pogo Sticks (PHI)

- Designed for heavier ABS cables
- Extra heavy-duty internal spring
- Can accept STOW-A-WAY™ (15-041,15-042), with 17-039 mounting kit
- Includes 3-hose holder
- 8" coated spring for corrosion resistance
- Heavy-duty 7/16" mounting bolt

Part Number	Description
17-0400	40" chrome



## PHILIPS

### Junction Box (PHI)

- CLEAR-VU™ ABS plastic for easy visual inspection
- Larger junction box accepts ABS cable and additional wiring
- Ring termination
- Pass-through grommets accommodate up to 0.80 O.D. cable
- Seven #10 stud posts
- Hole pattern is 7.37" center to center



Part Number	Description
15-961	CLEAR-VU™ junction box

## PHILIPS

### Gladhand Seals (PHI)

- Fits all industry-standard gladhands

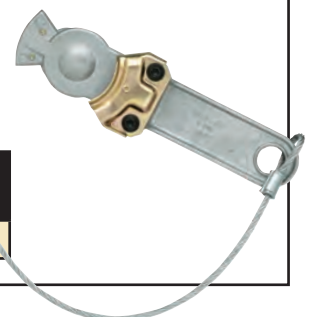


Part Number	Description
12-012	Wide lip, tapered base for easy insertion, rubber
12-0161	Polyurethane, Blue
12-0162	Polyurethane, Red
12-0163	Polyurethane, Black

## PHILIPS

### Economy Shut-Off "Dummy" Gladhand (PHI)

- Inexpensive way to seal rear gladhands for double trailers
- For double trailers
- Provides air-tight shut-off
- 16" cable with ring terminal



Part Number	Description
12-0100	Aluminum



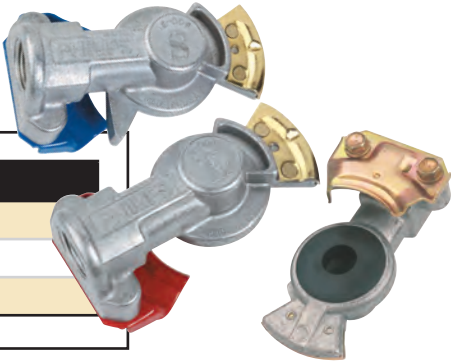
# Trailer Accessories & Connectors

## PHILIPS

### Straight Mount Standard Gladhands (PHI)

- Wrap-around connector plate provides additional strength
- Powder-coated connector plate for corrosion resistance
- Zinc-coated detent plates
- E-coated screws for corrosion protection
- Meets SAE J318 specifications
- For use on air coil, tractor & trailer
- 1/2" pipe port

PN	Description
12-006	Service, blue
12-008	Emergency, red
12-010	Universal



### Gladhand Coupler with Chain (HBS)

- Without vent hole zinc and yellow dichromate bodies with chains attached.
- OEM N13048

Part Number	Description
11402	Coupler with Chain



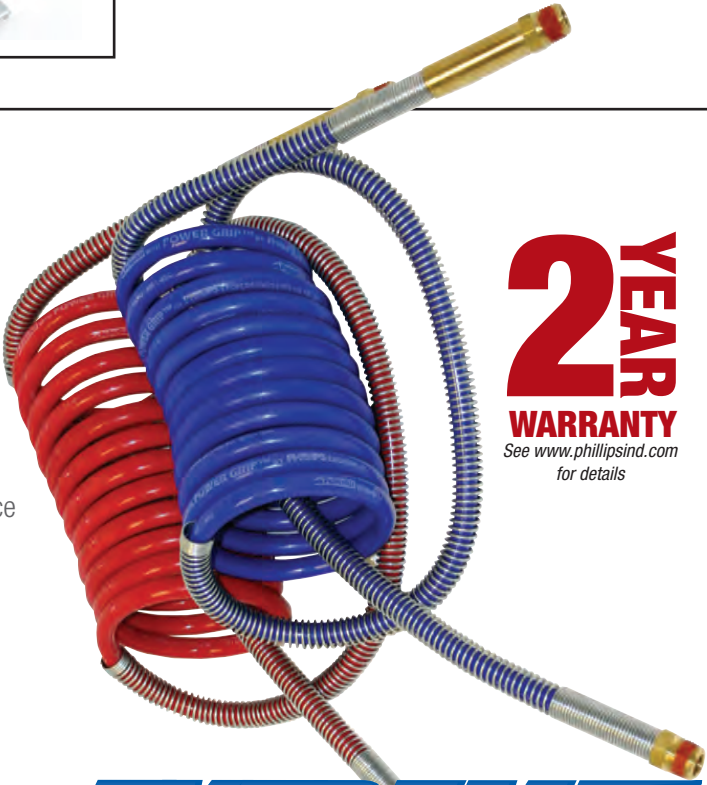
## PHILIPS

### POLAR AIR® Coil Air Hose (PHI)

- **REMAINS FLEXIBLE AT -85°F (-65°C)!**
- **FOR EXTREME WEATHER CONDITIONS**
- Jacketing prevents fractures and provides durable, rubber feel
- Large coil diameter prevents kinking and provides greater recoil
- Excellent recoil memory, chemical & abrasion resistance
- POWER GRIP™ gladhad extension provides superior coupling/uncoupling leverage
- Meets SAE J844 and J1131 specifications
- Meets FMVSS 571.106 specifications
- Meets DOT 49 CFR 393.45 specifications

Part Number	Description
11-5150	15' pair (red and blue)
11-5400	15' pair (red and blue) with 40" lead

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual tubing is significantly longer.



**2 YEAR  
WARRANTY**

See [www.phillipsind.com](http://www.phillipsind.com)  
for details

**EXTREME  
COLD WEATHER AIR COIL**



## PHILIPS

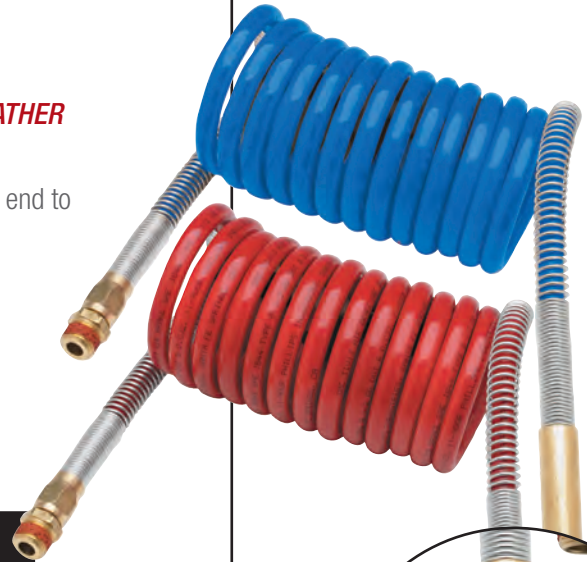
### POWER GRIP™ Coil Air Hose (PHI)

- **EXTRA-LONG BRASS HANDLE ADDS COLD WEATHER COUPLING/UNCOUPLING LEVERAGE**

- Vertical at the tractor end and angled at the trailer end to prevent hose kinking
- Includes thread seal for secure connection to gladhand & chassis
- Meets SAE J844 and J1131 specifications
- Meets FMVSS 571.106 specifications
- Meets DOT 49 CFR 393.45 specifications

Part Number	Description
11-3150	15' pair (red and blue)
11-5400	15' pair (red and blue) with 40" lead

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual tubing is significantly longer.



Long handle  
for added  
leverage

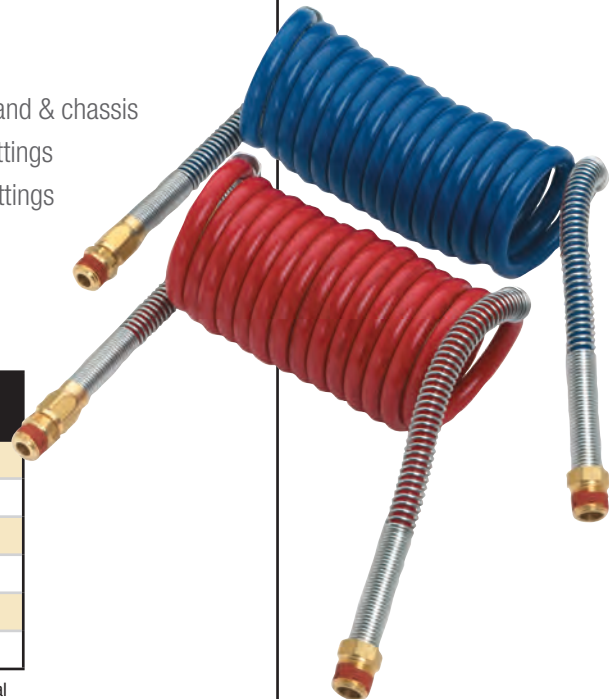
## PHILIPS

### Heavy-Duty Coil Air Hose (PHI)

- Includes thread seal for secure connection to gladhand & chassis
- Single piece trailer side & three-piece tractor side fittings
- Plated piece trailer side & three-piece tractor side fittings
- Meets SAE J844 and J1131 specifications
- Meets FMVSS 571.106 specifications
- Meets DOT 49 CFR 393.45 specifications

Part Number	Description
11-312	12' Pair (red and blue)
11-310	12' Red (emergency) coil only
11-315	15' Pair (red and blue)
11-317	15' Red (emergency) coil only
11-318	15' Blue (service) coil only
11-340	15' Pair (red and blue) with 40" lead

NOTE: Working length - As measured by pull force per SAE J2222. Length of actual tubing is significantly longer.



# Air & Hydraulic

## Nylon Air Brake Tubing (HHC)

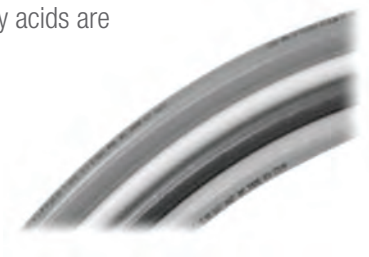
Recommended For: Truck, bus, and mobile air brake, and service lines where heat and battery acids are not present. Conforms to SAE J844 specifications. Meets D.O.T. FMVSS 106.

*Tube: Heat and light stabilized seamless extruded nylon.*

*Cover: Nylon. Available in black (NABTA), blue (NABTB), green (NABTG), red (NABTR), yellow (NABTY) and orange (NABTO) colors. Other colors available upon request.*

*Temperature Range: -40°F to +200°F*

*Couplings: Use Gates DOT SureLok™ (G31) or Gates DOT compression. (G32)*



**Type A: Non-reinforced in sizes 1/8", 5/32", 3/16", and 1/4".**

**Type B: Reinforced with one open ply of fibrous nylon in sizes 5/16", 3/8", 1/2", 5/8" and 3/4".**

*NOTE: 1/8" and 5/32" are NOT recognized by D.O.T. for air brake systems, these are for service lines only.*

Part Number	Packaged Length (Ft.)	Description	Hose O.D. (In.)	Tube Color	Type	Wall Thickness	Working Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (In.)
H30002-02	100	2NABTAX100	1/8	Black	A	0.021	150	800	0.37
H30002-03	100	3NABTAX100	3/16	Black	A	0.023	150	800	0.75
H30002-04	100	4NABTAX100	1/4	Black	A	0.039	150	960	1
H30002-05	100	5NABTAX100	5/16	Black	B	0.038	150	800	1.25
H30002-06	100	6NABTAX100	3/8	Black	B	0.063	150	1120	1.5
H30002-08	100	8NABTAX100	1/2	Black	B	0.064	150	760	2
H30003-10	50	10NABTAX50	5/8	Black	B	0.093	150	720	2.5
H30003-12	50	12NABTAX50	3/4	Black	B	0.091	150	640	3
H30042-04	100	4NABTGX100	1/4	Green	A	0.039	150	960	1
H30042-06	100	6NABTGX100	3/8	Green	B	0.063	150	1120	1.5
H30042-08	100	8NABTGX100	1/2	Green	B	0.064	150	760	2
H30043-10	50	10NABTGX50	5/8	Green	B	0.093	150	720	2.5
H30052-04	100	4NABTRX100	1/4	Red	A	0.039	150	960	1
H30052-06	100	6NABTRX100	3/8	Red	B	0.063	150	1120	1.5
H30053-10	50	10NABTRX50	5/8	Red	B	0.093	150	720	2.5
H30062-04	100	4NABTBX100	1/4	Blue	A	0.039	150	960	1
H30062-06	100	6NABTBX100	3/8	Blue	B	0.063	150	1120	1.5
H30062-08	100	8NABTBX100	1/2	Blue	B	0.064	150	760	2
H30072-04	100	4NABTYX100	1/4	Yellow	A	0.039	150	960	1
H30072-06	100	6NABTYX100	3/8	Yellow	B	0.063	150	1120	1.5
H30082-04	100	4NABTOX100	1/4	Orange	A	0.039	150	960	1
H30082-06	100	6NABTOX100	3/8	Orange	B	0.063	150	1120	1.5
H30082-08	100	8NABTOX100	1/2	Orange	B	0.064	150	760	2

## 1/2" I.D. 3/8" MPT Fixed & Swivel Air Brake Hose Assemblies (HHC)


*Recommended For:* Factory crimped assemblies meet the rigorous demands of the fleet and heavy-duty market. Extremely flexible and kink resistant. Four spiral construction meets SAE J1402 specifications. Complies with DOT FMVSS 106 requirements.

*Couplings meet* SAE and DOT minimum pull-off requirements. High quality brass male pipe fitting on one end, female air brake swivel with male pipe adapter on other end.

*Construction:* Superior EPDM rubber resists damaging effects of ozone and heat, plus harmful grease and oil common to air brake systems. Flexible and kink resistant. Four-spiral construction.

*Temperature Range:* -40°F to +212°F (-40°C to +100°C).

*Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings.*



Part Number	Length
27254	24"
27255	28"
27256	30"
27257	32"
27258	36"
27259	42"
27360	48"
27361	60"

## AB Series Air Brake Hose (HHC)

*Recommended For:* Truck, bus, and mobile air brake systems. Can be used as flexible connector between frame and axle.

*Meets* SAE J1402 specification. Complies with DOT FMVSS 106 All requirements.

*Construction:* Superior EPDM rubber resists damaging effects of ozone and heat, plus harmful grease and oil common to air brake systems. Flexible and kink resistant. Four-spiral fiber construction.

*Temperature Range:* -40°F to +212°F (-40°C to +100°C).

*Couplings:* Gates G33 Type air brake couplings.

*Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings.*



50' Length Part Number	Bulk Reel Part Number	Hose I.D.	Hose O.D.	Working	Bulk Reel Length
27240	28760	3/8"	3/4"	225 psi	250'
27241	28761	1/2"	7/8"	225 psi	250'

## Heavy-Duty Green Stripe® Air Brake Hose (HHC)

*Recommended For:* Truck, bus, and mobile air brake systems. Can be used as flexible connector between frame and axle.

*Exceeds* SAE J1402 and Bendix specifications. Complies with DOT FMVSS 106 All requirements.

*Construction:* Two braid reinforced construction. Smooth Nitrile and Neoprene cover construction is oil resistant.

*Temperature Range:* -40°F to +212°F (-40°C to +100°C).

*Couplings:* Gates G33 Type air brake couplings.

*Federal law requires registration with the Department of Transportation for anyone producing air brake hose assemblies with swaged or crimped fittings.*

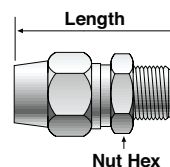


50' Length Part Number	Bulk Reel Part Number	Hose I.D.	Hose O.D.	Working	Bulk Reel Length
27220	—	3/8"	3/4"	225 psi	250'

## Air Brake Fittings for Rubber Hose (HHC)

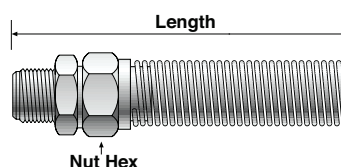
### Air Brake to Male Pipe

Part Number	Description	Hose I.D. (In.)	Thread Size	Nut Hex (In.)	Length (In.) (mm)	
G33100-0606	6ABR-6MP	3/8	3/8 – 18	31/32	2.12	53.8



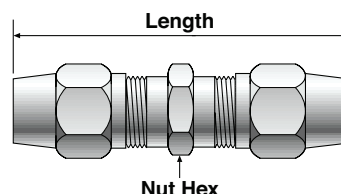
### Air Brake to Male Pipe With Spring Guard

Part Number	Description	Hose I.D. (In.)	Thread Size	Nut Hex (In.)	Length (In.) (mm)	
G33110-0606	6ABRSG-6MP	3/8	3/8 – 18	31/32	4.80	121.9
G33110-0608	6ABRSG-8MP	3/8	1/2 – 14	31/32	4.90	124.5



### Air Brake Union

Part Number	Description	Hose I.D. (In.)	Nut Hex (In.)	Length (In.) (mm)	
G33400-0606	6ABR-6ABR	3/8	31/32	2.98	75.7



## SureLok™ Fittings (HHC)

Compressed air as a connector on all air brake systems at locations other than between chassis frame and axle or between towed and towing vehicle. Also as a connector on all air operated systems as applicable to suspension, steering, engine, transmission and auxiliary mechanisms. Fittings and tubing comply to Department Of Transportation Federal Motor Vehicle Safety Standard, (DOT FMVSS 106) (mandatory requirements for inch tube fittings in U.S.A.) Society for Automotive Engineers (SAE) J1131 (inch tube and fittings) and meet DIN 74324 and German TUV requirements (metric tube and fittings).

Maximum Working Pressure: 0 to 150 psi

Working Temperature: -40°F to +220°F (-40°C to +100°C)

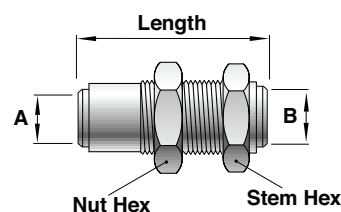
Materials: Body, tube support, Collet - Brass;

O-Ring - Buna N (Low Nitrile); Thread Sealant - Precoat 5

Tubing: Tube should be to SAE J844 or DIN 74324

### Air Brake Bulkhead

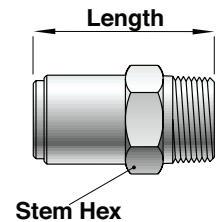
Part Number	Description	Tube "A" O.D. (In.)	Tube "B" O.D. (In.)	Length (In.) (mm)	
G31300-0404	4AB-4AB-BKHD	1/4	1/4	1.41	35.9
G31300-0606	6AB-6AB-BKHD	3/8	3/8	1.75	44.5
G31300-0808	8AB-8AB-BKHD	1/2	1/2	2.02	51.4



## SureLok™ Fittings (HHC)

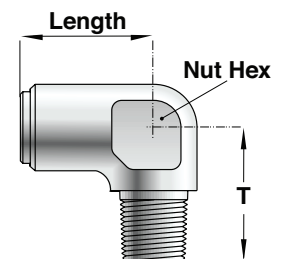
### Air Brake to Male Pipe

Part Number	Description	Tube O.D. (In.)	Thread Size	Stem Hex (In.)	Length	
					(In.)	(mm)
G31100-0202	2AB-2MP	1/8	1/8 – 27	7/16	0.67	16.9
G31100-2501	25AB-1MP	5/32	1/16 – 27	11/32	0.43	11.0
G31100-2502	25AB-2MP	5/32	1/8 – 27	7/16	0.89	22.7
G31100-0402	4AB-2MP	1/4	1/8 – 27	1/2	1.04	26.3
G31100-0404	4AB-4MP	1/4	1/4 – 18	9/16	1.17	29.8
G31100-0406	4AB-6MP	1/4	3/8 – 18	11/16	1.2	30.5
G31100-0602	6AB-2MP	3/8	1/8 – 27	11/16	1.32	33.6
G31100-0604	6AB-4MP	3/8	1/4 – 18	11/16	1.48	37.6
G31100-0606	6AB-6MP	3/8	3/8 – 18	11/16	1.42	36.1
G31100-0608	6AB-8MP	3/8	1/2 – 14	7/8	1.46	37.1
G31100-0804	8AB-4MP	1/2	1/4 – 18	7/8	1.68	42.6
G31100-0806	8AB-6MP	1/2	3/8 – 18	7/8	1.64	41.6
G31100-0808	8AB-8MP	1/2	1/2 – 14	7/8	1.72	43.6
G31100-1006	10AB-6MP	5/8	3/8 – 18	11/6	1.87	47.5
G31100-1008	10AB-8MP	5/8	1/2 – 14	11/16	2.12	53.5
G31100-1208	12AB-8MP	3/4	1/2 – 14	13/16	2.11	53.5
G31100-1212	12AB-12MP	3/4	3/4 – 14	11/16	2.21	56.1



### Air Brake to Male Pipe Swivel – 90°

Part Number	Description	Tube O.D. (In.)	Thread Size	Nut Hex (mm)	“T” Drop		Length	
					(In.)	(mm)	(In.)	(mm)
G31124-2502	25AB-2MPX90	5/32	1/8 – 27	11	0.91	23.2	0.83	21.2
G31124-0402	4AB-2MPX90	1/4	1/8 – 27	11	0.91	23.2	0.83	21.2
G31124-0404	4AB-4MPX90	1/4	1/4 – 18	14	1.12	28.4	0.83	21.2
G31124-0406	4AB-6MPX90	1/4	3/8 – 18	19	1.25	31.7	0.85	21.5
G31124-0602	6AB-2MPX90	3/8	1/8 – 27	14	1.05	26.7	1.07	27.3
G31124-0604	6AB-4MPX90	3/8	1/4 – 18	19	1.29	32.7	1.07	27.3
G31124-0606	6AB-6MPX90	3/8	3/8 – 18	19	1.24	31.6	1.07	27.3
G31124-0608	6AB-8MPX90	3/8	1/2 – 14	22	1.44	36.8	1.07	27.3
G31124-0806	8AB-6MPX90	1/2	3/8 – 18	22	1.42	36.1	1.27	32.3
G31124-0808	8AB-8MPX90	1/2	1/2 – 14	22	1.62	41.1	1.27	32.3

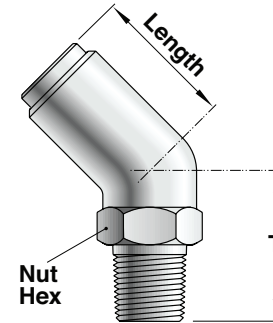




## SureLok™ Fittings (HHC)

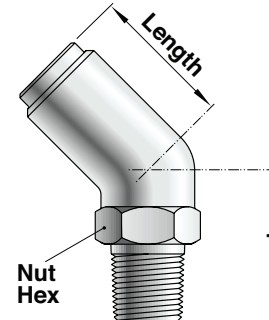
### Air Brake to Male Pipe – 45°

Part Number	Description	Tube O.D. (In.)	Thread Size	Stem Hex (mm)	“T” Drop		Length	
					(In.)	(mm)	(In.)	(mm)
G31102-0402	4AB-2MP45	1/4	1/8 – 27	14.3	0.81	20.6	1.68	42.7
G31102-0404	4AB-4MP45	1/4	1/4 – 18	14.3	0.98	24.9	1.87	47.5
G31102-0602	6AB-2MP45	3/8	1/8 – 27	19	0.93	23.6	1.95	49.5
G31102-0604	6AB-4MP45	3/8	1/4 – 18	19	1.1	27.9	2.16	54.9
G31102-0606	6AB-6MP45	3/8	3/8 – 18	19	1.12	28.4	2.22	56.4
G31102-0804	8AB-4MP45	1/2	1/4 – 18	22	1.1	27.9	2.32	58.9
G31102-0806	8AB-6MP45	1/2	3/8 – 18	22	1.12	28.4	2.38	60.5
G31102-0808	8AB-8MP45	1/2	1/2 – 14	22	1.3	33	2.6	66
G31102-1006	10AB-6MP45	5/8	3/8 – 18	27	1.02	25.9	2.48	63
G31102-1008	10AB-8MP45	5/8	1/2 – 14	27	1.22	31	2.68	68.1
G31102-1208	12AB-8MP45	3/4	1/2 – 14	25.4	1.3	33	2.82	71.6



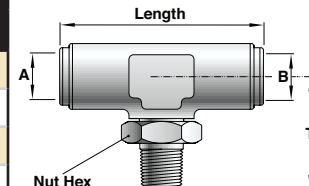
### Air Brake to Male Pipe Swivel – 45°

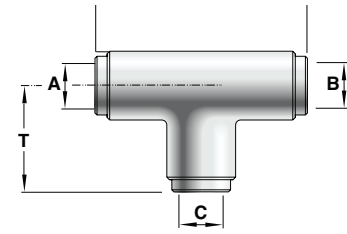
Part Number	Description	Tube O.D. (In.)	Thread Size	Nut Hex (In.)	“T” Drop		Length	
					(In.)	(mm)	(In.)	(mm)
G31122-0402	4AB-2MPX45	1/4	1/8 – 27	7/16	0.90	22.9	0.77	19.6
G31122-0404	4AB-4MPX45	1/4	1/4 – 18	9/16	1.11	28.2	0.77	19.6
G31122-0604	6AB-4MPX45	3/8	1/4 – 18	11/16	1.26	32	1.05	26.7
G31122-0606	6AB-6MPX45	3/8	3/8 – 18	3/4	1.26	32	1.05	26.7
G31122-0806	8AB-6MPX45	1/2	3/8 – 18	3/4	1.41	35.8	1.25	31.8



### Air Brake to Male Pipe Swivel “T”

Part Number	Description	Tube “A” O.D. (In.)	Tube “B” O.D. (In.)	Thread Size	Nut Hex (mm)	“T” Drop		Length	
						(In.)	(mm)	(In.)	(mm)
G31142-0402	4AB-4AB-2MPX	1/4	1/4	1/8 – 27	11	0.91	23.2	1.67	42.4
G31142-0404	4AB-4AB-4MPX	1/4	1/4	1/4 – 18	14	1.12	28.4	1.67	42.4
G31142-0604	6AB-6AB-4MPX	3/8	3/8	1/4 – 18	19	1.29	32.7	2.17	55
G31142-0606	6AB-6AB-6MPX	3/8	3/8	3/8 – 18	19	1.24	31.6	2.17	55
G31142-0806	8AB-8AB-6MPX	1/2	1/2	3/8 – 18	22	1.42	36.1	2.56	65





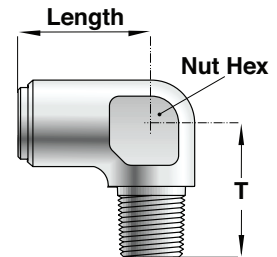
## SureLok™ Fittings (HHC)

### Air Brake Union “T”

Part Number	Description	Tube “A”	Tube “B”	Tube “C”	“T” Drop		Length	
		O.D. (In.)	O.D. (In.)	O.D. (In.)	(In.)	(mm)	(In.)	(mm)
G31450-0202	2AB-2AB-2AB	1/8	1/8	1/8	0.63	15.9	1.26	32
G31450-0303	3AB-3AB-3AB	3/16	3/16	3/16	0.72	19.6	1.44	34
G31450-0404	4AB-4AB-4AB	1/4	1/4	1/4	0.83	21	1.65	42
G31450-0606	6AB-6AB-6AB	3/8	3/8	3/8	1.07	27.1	2.13	54.2
G31450-0808	8AB-8AB-8AB	1/2	1/2	1/2	1.26	32.1	2.53	64.2
G31450-1010	10AB-10AB-10AB	5/8	5/8	5/8	1.54	39	3.07	78
G31450-1212	12AB-12AB-12AB	3/4	3/4	3/4	1.56	39.5	3.12	79

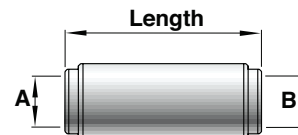
### Air Brake to Male Pipe – 90°

Part Number	Description	Tube O.D. (In.)	Thread Size	Nut Hex (mm)	“T” Drop		Length	
					(In.)	(mm)	(In.)	(mm)
G31104-0402	4AB-2MP90	1/4	1/8 – 27	14	0.79	20	0.81	20.5
G31104-0404	4AB-4MP90	1/4	1/4 – 18	18	1.02	26	0.87	22
G31104-0604	6AB-4MP90	3/8	1/4 – 18	18	1.02	26	1.06	27
G31104-0606	6AB-6MP90	3/8	3/8 – 18	22	1.1	28	1.14	29
G31104-0608	6AB-8MP90	3/8	1/2 – 14	24	1.38	35	1.14	29



### Air Brake Union

Part Number	Description	Tube “A”	Tube “B”	Length	
		O.D. (In.)	O.D. (In.)	(In.)	(mm)
G31400-0202	2AB-2AB	1/8	1/8	1.15	29.3
G31400-2525	25AB-25AB	5/32	5/32	1.18	30
G31400-0303	3AB-3AB	3/16	3/16	1.36	34.6
G31400-0404	4AB-4AB	1/4	1/4	1.4	35.6
G31400-0606	6AB-6AB	3/8	3/8	1.74	44.1
G31400-0808	8AB-8AB	1/2	1/2	2.01	51.1
G31400-1010	10AB-10AB	5/8	5/8	2.42	61.5
G31400-1212	12AB-12AB	3/4	3/4	2.48	63



## Compression Fittings (HHC)

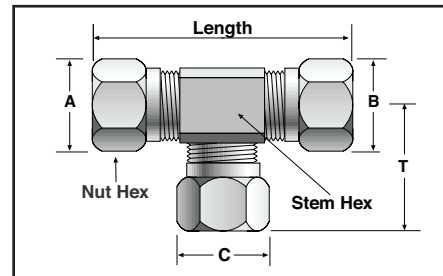
Recommended For: Compressed air as a connector on all air brake systems at locations other than between chassis frame and axle or between towed and towing vehicle. Also as a connector on all air operated systems as applicable to suspension, steering, engine, transmission and auxiliary mechanisms. Fittings and tubing comply to Department Of Transportation Federal Motor Vehicle Safety Standard, (DOT FMVSS571.106) (Mandatory requirements for inch tube fittings in U.S.A.) Society for Automotive Engineers (SAE J246) and (SAE J1131) (inch tube and fittings).

Maximum Working Pressure: 0 to 150 psi

Materials: Brass

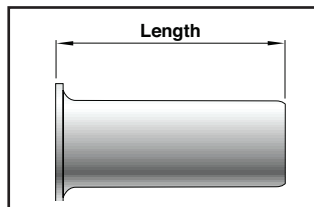
Working Temperature: -40°F to +200°F (-40°C to +100°C)

Tubing: SAE J844 or DIN 74324



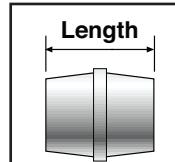
### Air Brake Union "T"

Part Number	Description	Tube "A"	Tube "B"	Tube "C"	Nut Hex	Stem Hex	"T" Drop		Length	
		O.D. (In.)	O.D. (In.)	O.D. (In.)	(In.)	Hex (In.)	(In.)	(mm)	(In.)	(mm)
G32450-0404	4ABC-4ABC-4ABC	1/4	1/4	1/4	9/16	7/16	0.95	24.1	1.9	48.3
G32450-0606	6ABC-6ABC-6ABC	3/8	3/8	3/8	5/8	9/16	1.24	31.5	2.48	63



### Tube Sleeve Insert

Part Number	Description	Tube O.D. (In.)	Length	
			(In.)	(mm)
G32040-0004	4TSI-ABC	1/4	0.53	13.5
G32040-0006	6TSI-ABC	3/8	0.64	16.3



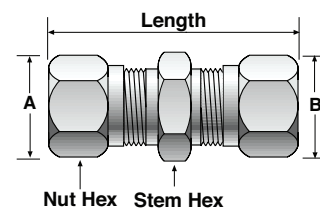
### Tube Sleeve

Part Number	Description	Tube O.D. (In.)	Length	
			(In.)	(mm)
G32050-0004	4TS-ABC	1/4	0.30	7.6
G32050-0006	6TS-ABC	3/8	0.39	9.9
G32050-0008	8TS-ABC	1/2	0.43	10.9

## Compression Fittings (HHC)

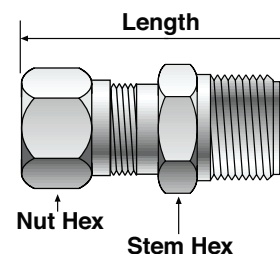
### Air Brake to Male Pipe – 90°

Part Number	Description	Tube "A" O.D. (In.)	Tube "B" O.D. (In.)	Nut Hex (In.)	Stem Hex (In.)	Length (In.) (mm)	
G32400-0404	4ABC-4ABC	1/4	1/4	9/16	7/16	1.49	37.8
G32400-0606	6ABC-6ABC	3/8	3/8	5/8	9/16	2	50.8
G32400-0808	8ABC-8ABC	1/2	1/2	13/16	11/16	2.33	59.2
G32400-1010	10ABC-10ABC	5/8	5/8	15/16	13/16	2.39	60.7
G32400-1212	12ABC-12ABC	3/4	3/4	1-1/8	1	2.6	66



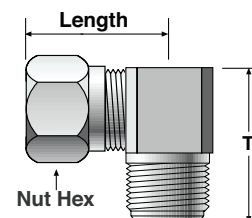
### Air Brake to Male Pipe

Part Number	Description	Tube O.D. (In.)	Thread Size	Nut Hex (In.)	Stem Hex (In.)	Length (In.) (mm)	
G32100-0402	4ABC-2MP	1/4	1/8 – 27	9/16	7/16	1.22	31
G32100-0404	4ABC-4MP	1/4	1/4 – 18	9/16	9/16	1.43	36.3
G32100-0604	6ABC-4MP	3/8	1/4 – 18	5/8	9/16	1.67	42.4
G32100-0606	6ABC-6MP	3/8	3/8 – 18	5/8	11/16	1.7	43.2
G32100-0806	8ABC-6MP	1/2	3/8 – 18	13/16	11/16	1.85	47
G32100-0808	8ABC-8MP	1/2	1/2 – 14	13/16	7/8	2.04	51.8



### Air Brake to Male Pipe – 90°

Part Number	Description	Tube O.D. (In.)	Thread Size	Nut Hex (In.)	"T" Drop (In.) (mm)	Length (In.) (mm)		
G32104-0402	4ABC-2MP90	1/4	1/8 – 27	9/16	0.66	16.8	0.95	24.1
G32104-0404	4ABC-4MP90	1/4	1/4 – 18	9/16	0.87	22.1	1	25.4
G32104-0604	6ABC-4MP90	3/8	1/4 – 18	5/8	0.92	23.4	1.25	31.8
G32104-0806	8ABC-6MP90	1/2	3/8 – 18	13/16	0.99	25.1	1.44	36.6
G32104-1008	10ABC-8MP90	5/8	1/2 – 14	15/16	1.24	31.5	1.58	40.1



## Air Brake Fittings (HHC)

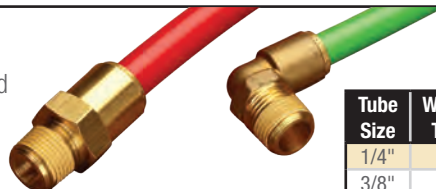
Meets D.O.T FMVSS571.106 air brake specifications. Use with S.A.E.J844 type A and B nylon tubing. Easy to assemble, no flaring needed. Also meets S.A.E. standards, S.A.E.J246 and S.A.E.J1131.

Working temperature: -40 to 200 degrees F

Working pressure: Up to 150 psi

Material: Brass

Applications: Air brake system and cab air controls



Tube Size	Wrench Turns
1/4"	3
3/8"	4
1/2"	4
5/8"	3 1/2
3/4"	3 1/2

PN	Type	Image	Tube Size	Pipe Thread	PN	Type	Image	Tube Size	Pipe Thread
908040	Tubing Insert		1/4"		916642	Female Connector		1/4"	1/8"
908050			5/16"		916662			3/8"	1/8"
908060			3/8"		916664			3/8"	1/4"
908080			1/2"		916686			1/2"	3/8"
908284	Bulkhead Coupling		—	1/2" MNPT x 1/4" FNPT	916842	Male Connector		1/4"	1/8"
908286			—	1/2" MNPT x 1/4" FNPT	916844			1/4"	1/4"
908642			—	3/4" MNPT x 1/4" FNPT	916846			1/4"	3/8"
908643			—	3/4" MNPT x 1/4" FNPT	916862			3/8"	1/8"
908663			—	1" MNPT x 3/8" FNPT	916864			3/8"	1/4"
916040	Sleeve		1/4"	—	916866			3/8"	3/8"
916060			3/8"	—	916868			3/8"	1/2"
916080			1/2"	—	916884			1/2"	1/4"
916090			5/8"	—	916886			1/2"	3/8"
916092			3/4"	—	916888			1/2"	1/2"
916140	Nut		1/4"	—	916892			3/4"	3/4"
916160			3/8"	—	916942	Male Elbow		1/4"	1/8"
916180			1/2"	—	916944			1/4"	1/4"
916190			5/8"	—	916946			1/4"	3/8"
916192			3/4"	—	916962			3/8"	1/8"
916240	Union		1/4"	—	916964			3/8"	1/4"
916260			3/8"	—	916966			3/8"	3/8"
916280			1/2"	—	916984			1/2"	1/4"
916290			5/8"	—	916986			1/2"	3/8"
916292			3/4"	—	916988			1/2"	1/2"
916340	Insert		1/4"	—	917064	Female Elbow		3/8"	1/4"
916360			3/8"	—	917086			1/2"	3/8"
916380			1/2"	—	917244	Male Branch Tee		1/4"	1/4"
916390			5/8"	—	917264			3/8"	1/4"
916392			3/4"	—	917266			3/8"	3/8"
916440	Union Tee		1/4"	—	917286			1/2"	3/8"
916460			3/8"	—	917944	45° Elbow		1/4"	1/4"
916480			1/2"	—	917962			3/8"	1/8"
916560	Union Elbow		3/8"	—	917964			3/8"	1/4"
916580			1/2"	—	917986			3/8"	1/2"



## Haldex (New/Remanufactured) PURest® Air Dryer (HBS)

- Multi-Treatment Cartridge employs 5 stages of cleaning to ensure dry system air.
- Universal mounting bracket eases retro-fit installations. Fits Pure Air Plus, DRYest, AD type and SS type air dryer bolt patterns.
- Integrated turbo protection.
- Built-in heater prevents freezing and damage to the dryer.

### Specifications:


Stages of Drying .....	5	12, 24 Volt Heater .....	95W
Internal Purge Volume .....	210 cu. in.	Flow Capacity .....	34 SCFM
Inlet Air Temperature .....	-40°F to +175°F	Desiccant Cartridge .....	3.5 lbs.
Maximum Working Pressure .....	150 psi	Assembly Weight .....	22.0 lbs.
Safety Relief Pressure .....	175 psi	Integrated Turbo Protection Pressure Drop .....	2 psi @ 15 SCFM/120 psi
Secondary Pressure Protection .....	235 psi		



Part Number	Product Description	Heater	Notes	OEM Number
DA34100	PURest® Air Dryer	12 Volt	with Bracket, Inlet Port – Left	N4253AA

*Notes: Fits in 17-3/4" x 9-3/4" x 9-1/2" Envelope. This includes 1/2" clearance needed for desiccant cartridge change.*


## Haldex (New/Remanufactured) DRYest® Service Kits (HBS)

Part Number	Product Description	Application	Notes	Image
47177343	Valve Kit Assembly for DRYest® Air Dryer	DA35200, DA35205, DA35210, DA35215, DA35220	with Integrated Governor (125 psi)	

## Haldex (New/Remanufactured) PURest® Service Kits (HBS)




Part Number	Product Description	Application	Image
DQ6050	MTC Desiccant Cartridge Kit for PURest® Air Dryer	DA34100, DA34105, DA34110, DA34200	

## Haldex (New/Remanufactured) Pure Air™ Filter (HBS)


Part Number	Product Description	Application	Image
100696E	Air Cleaner Filter	KN33000 KN33002 KN33010 KN33011 KN33012 KN19040	

# Air Brake Products

## Haldex (New/Remanufactured) Pure Air Plus™ Repair Kits (HBS)

Part Number	Product Description	Application	Notes	OEM Part #	Image
DA33120	2 lb. Desiccant Cartridge Only – for Pure Air Plus™	DA33100, DA33105, DA33110, DA33200	6–1/2" Tall	201160	
DQ6020	Lower Housing Repair Kit for Pure Air Plus™	DA33100, DA33100X, DA33100BX, DA33105, DA33110, DA33110X, DA33140, DA33140X, DA33200, DA33200X, DA33240, DA33240X	Includes: Purge, Turbo Saver™, One-Way Check Valve Assemblies.	–	
DQ6026	General Service Kit for Pure Air Plus™	DA33100, DA33100X, DA33100BX, DA33105, DA33110, DA33110X, DA33140, DA33140X, DA33200, DA33200X, DA33240, DA33240X	Includes: Desiccant Cartridge, Coalescing Filter, Relief Valve, Purge Shield, Associated Hardware.	DQ6026	

## Haldex (New/Remanufactured) Heater Kits – Pure Air™/Pure Air Plus™ (HBS)

Part Number	Product Description	Application	Notes	OEM Part #	Image
DQ6011	Heater Kit for Pure Air Plus™ Air Dryer	DA33100, DA33100X, DA33100BX, DA33140, DA33140X, DA33200, DA33200X, DA33240, DA33240X	12 Volt – For dryers date coded prior to 9/97; includes heater #102655FE.	–	

## Haldex Air Cleaners (HBS)



Part Number	Product Description	Mounting Measurements	Overall Height	Diameter	Application	OEM Part Number
KN19040	Air Cleaner Assembly with Filter	Mounting centers 2.75	4.44	4.30	For use with all compressor types	100783E

### Competitive (New/Remanufactured) WABCO SS1200 (HBS)

- Lightweight
- Replaceable Spin-On Cartridge
- Compact 1200 Series
- Metri-Pack Type Heater Connector

Part Number	Product Description	MFG #	Heater Voltage	Supply	Delivery	Control	Weight	Height	Core Group
955205X	Remanufactured WABCO SS1200 Air Dryer	R955205 R955005	12 Volt	1/2" – 14 FPT	1/2" – 14 FPT	1/4" – 18 FPT	15 lbs.	11.2"	165WAB



### Competitive (New/Remanufactured) Bendix® AD-9 (HBS)

- Desiccant type.
- In-line filtration system.
- Automatic drain valve which is controlled by the governor.

Part Number	Product Description	Heater Voltage	Heater Watts	Supply	Delivery	Control	Weight	Notes	Core Group
109685X	Reman. Bendix® AD-9 Air Dryer	12 Volt	75 Watt	1/2" PT	1/2" PT	1/4" PT	28 lbs.	Replaces 65225X	157AD9



### Competitive (New/Remanufactured) Bendix® AD-IP (HBS)

- Desiccant type.
- In-line filtration system.
- Automatic drain valve which is controlled by the governor.

Part Number	Product Description	Heater Voltage	Supply	Delivery	Control	Weight	Height	Width	Notes	Core Group
109477X	Reman. Bendix® AD-IP Air Dryer	12 Volt	1/2"	1/2"	1/4"	26.2 lbs.	12.5"	9.25"	Does not include Mounting Bracket or Wiring Harness.	161ADIP



### Competitive (New/Remanufactured) Bendix® AD-SP (HBS)

- System Purge

Part Number	Product Description	MFG #	Heater Voltage	Heater Wattage	Supply	Delivery	Control	Height	Width	Weight	Core Group
109991X	Reman. Bendix® AD-SP Air Dryer	109991 065691	12 Volt	90 Watt	1/2"	1/2"	1/4"	11.07"	5.62"	11.4 lbs.	164ADSP

*Notes: DO NOT remove rear cover, components under cover are not serviceable.*






### Competitive (Remanufactured) Air Dryer Cartridges (HBS)

Part Number	Product Description	Application	Weight	Core Group
101900X	Remanufactured Bendix® Cartridge	AD-2 Air Dryer	7.8 lbs.	148AD2







# Air Brake Products

## Competitive (New/Remanufactured) Bendix® Repair Kits(HBS)

Part Number	Product Description	Application	Core Group	Image
109686X	Remanufactured Purge Valve and Heater/Thermostat Repair Kit for Bendix® AD-9 (12 Volt) Air Dryer	109685X	167AD9	
287053K	Purge Valve Repair Kit for Bendix® AD-2 Air Dryer	286934X, 286936X	—	
5004341X	Remanufactured Purge Valve Assembly (Soft Seat Purge) with 12 Volt Heater for Bendix® AD-9 Air Dryer	109689X	167AD9	

## Competitive (New/Remanufactured) Competitive Cartridges (HBS)

Part Number	Product Description	Application	Approx. Weight	Core Group	Image
107794X	Remanufactured Bendix® Cartridge	AD-9 Air Dryer	9.7 lbs.	158AD9	
109493X	Remanufactured Bendix® Desiccant Cartridge	AD-IP Air Dryer	15.9 lbs.	159ADIP	
5008414K	New Bendix® Desiccant Cartridge	AD-IS Air Dryer	7.0 lbs.	—	
950011K	New Wabco Type Air Dryer Cartridge	Wabco SS1200 Air Dryer	6.6 lbs.	—	

### Alcohol Evaporator (HBS)

- The alcohol evaporator is an automatic vaporizing device for keeping air lines and air reservoir free of ice.
- Pressure Protected.
- During the Antifreeze Season – before reactivating the evaporator, drain, disassemble, inspect and clean the unit of any sludge. Steam cleaning will not injure the unit.
- For optimum use of alcohol mount unit 8 to 10 feet from Compressor and after Air Dryer if so equipped.



Part Number	Product Description	Capacity	Ports	Bracket Location	OEM Number
A72420	Alcohol Evaporator with Safety Valve	40 oz. of Methyl Alcohol	1/2" NPT	As shown in picture.	AE72420

### Reservoirs – Saddle Mounted, Single Compartment (HBS)

- Long life internal and external corrosion protection.
- Withstands 500 hour salt spray test.
- Valve ports reinforced for extra strength.
- Conforms to SAEJ10B specifications.
- Certified to 150 PSI working pressure.
- Use of isolator pads recommended in any ABS application.
- All tanks have 1/4" drain port in bottom.
- All tanks have (2) 3/8" charging ports, one on each end.
- Valve ports on same side – 19842 only.



PN	Product Description	Mounting Centers	Diameter	Volume	Valve Mounting Port(s)	Mounting Flanges
19840	Saddle-Mounted Single Compartment Reservoir	27-1/2"	9-1/2"	1490 cu. in.	(2) 3/4"	Above Center Line

### Haldex (New and Remanufactured) Relay Valve (HBS)

- 2 Port Delivery
- Multi-Application Valve.
- Replaces many Haldex OEM numbers.
- Used to apply and release service brakes on tractor or trailer.
- Cover may be rotated without affecting warranty or performance.
- Brackets available separately.
- Includes bushings and plugs to match OEM production valves.
- Repair Kit use part number RN10HK.



Part Number	Product Description	Supply (2)	Delivery (2)	Control (1)	Crack Pressure	Notes	OEM Part Number	Core Group	Weight
KN28131X	Remanufactured Relay Valve – Two Port – Single Control Line	1/2"	1/2"	1/4"	4.0 ± 1 PSI	Bracket not included use K202000. Replacement for KN28130X.	N30106F	225	3 lbs.



# Air Brake Products

## Haldex (New and Remanufactured) 2 Port with Integral Bracket Relay Valve (HBS)

- 2 Port Delivery
- Used to apply and release service brakes on tractor or trailer.
- Cover may be rotated without affecting warranty or performance.
- Brackets available separately.



Part Number	Product Description	Supply (2)	Delivery (2)	Control (1)	Crack Pressure	Notes	OEM Part Number	Core Group	Mounting	Weight
KN28061	Relay Valve – Two Port – Single Control Line with Integral Bracket	1/2"	1/2"	3/8"	4.6 PSI	RN10HK	N30096L	—	5/16" on 1–1/2" centers	3 lbs.

## Haldex (New and Remanufactured) 4 Port – Vertical Ports Relay Valve (HBS)

- Four delivery ports facing down.
- Low differential – high capacity.
- Meets or exceeds FMVSS–121 requirements.
- Used to apply and release service brakes on tractor or trailer.
- Cover may be rotated without affecting warranty or performance.
- The auxiliary supply port "B" on A103600 may be used for air suspensions or other accessories requiring reservoir air.
- Repair Kit use part number RN10HP.



Part Number	Product Description	Supply (A)	Supply (B)	Delivery (4)	Control (1)	Crack Pressure	Notes	OEM Part Number	Core Group
A103600	Relay Valve – Four (Vertical) Port – Single Control	3/4"	Plugged	3/8"	1/4"	3.0 PSI	Mounting Bracket not included	AF103600	—

## Competitive (Remanufactured) Bendix® BP–R1 Valve (HBS)

- Designed for use on tractor only.
- Functions as a standard relay valve and a proportioning valve.
- 4 port delivery.
- Repair Kit not available.



Part Number	Product Description	Supply	Delivery	Control	Service	Crack Pressure	Core Group	Weight
65145X	Reman. Bendix® BP–R1 Bobtail Brake Proportioning Relay Valve	1/2"	2 @ 3/8" FPT Side 2 @ 1/2" FPT Bottom	1/8"	1/4"	4.0 PSI	BPR–1	2.6 lbs.

### Competitive (Remanufactured) Sealco Ratio Relay Valve (HBS)

- Used on trailers only to apply and release service brakes.
- 4 port delivery.
- Repair Kit not available.

Part Number	Product Description	Supply	Delivery	Control	Reservoir	Crack Pressure	Core Group	Weight
110139X	Remanufactured Sealco Ratio Relay Valve	3/8"	3/8"	3/8"	3/4"	4.5 PSI	210	3.9 lbs.



### Competitive (Remanufactured) Sealco Relay Valve (HBS)

- Used to apply and release service brakes on trailers.
- Nipple Mount
- 2 and 4 port delivery.
- Repair Kit not available.

Part Number	Product Description	Reservoir	Delivery	Control	Crack Pressure	Approx. Weight	Notes	Core Group
110380X	Reman. Sealco Relay Valve	3/4"	4 @ 3/8"	3/8"	1.5 PSI	2.8 lbs.	Low opening valve.	210



### Haldex (New/Remanufactured) Flipper Style – Panel Mount Valve (HBS)

- Panel or remote mount.
- An on–off, non–automatic two position valve.
- Made of durable (EGC) Engineering Grade Composite.
- Faceplates listed later in this section.

Part Number	Product Description	Release Position	Handle Finish	All Ports	Mounting Holes	OEM Part Number	Weight
KN20001	Panel Mount Flipper Style Valve	A – see picture	Chrome	1/8"	#10–24 with 1.50" centers	N13440DL	.18 lbs.



### Haldex (New/Remanufactured) Manifold Dash Style A Valve (HBS)

- Engineering Grade Composite (EGC) – One Piece Housing.
- Ports have molded identification.
- Replaces competitive units.
- Completely serviceable.



Part Number	Product Description	Mount. (4)	Trlr. Del.	Res. (2)	Exh.	Trac. Del.	Aux. Sup.	OEM Part Number	Tractor Valve	Trailer Valve	Non-Override	Spools
KN20611	Manifold Dash Valve	Horizontal – 1/4"–20 well nuts in body	1/4"	1/4"	1/4"	1/4"	1/4"	N4400EH – N4400B	20-35 PSI	20-45 PSI	25 ± 5 PSI	2
KN20615	Manifold Dash Valve	Horizontal – 1/4" hole in body	1/4"	1/4"	1/4"	1/4"	1/4"	N4400EK – N4400	20-35 PSI	20-45 PSI	25 ± 5 PSI	2

# Air Brake Products

## Haldex (New/Remanufactured) Push–Pull Parking Brake (HBS)

- Controls parking/emergency brakes.
- Made of durable (EGC) Engineering Grade Composite.
- Knob, pin and mounting nut shipped with valve un-assembled.
- Bulkhead mount, requires 7/8" mounting hole.
- A better replacement for the PP–1

Part Number	Product Description	Pop Pressure	Knob Included	All Ports	Notes	OEM Part Number	Weight
KN20021	Push–Pull Parking/ Emergency Brake Valve	35 ± 10 PSI	KN20903	1/8" NPT	System Brake	N20960	.4 lbs.



## Haldex (New/Remanufactured) Push–Pull Trailer Air Supply (HBS)

- Controls tractor protection.
- Made of durable (EGC) Engineering Grade Composite.
- KN20900 Knob included.
- Bulkhead mount, requires 7/8" mounting hole.
- A better replacement for the PP–7

Part Number	Product Description	Pop Pressure	Non–Override Pressure	Exhaust and Delivery	Supply and Control	Notes	OEM PN	Weight
KN20025	Push–Pull Trailer Air Supply Valve	35 ± 10 PSI	25 ± 5 PSI	1/4" NPT	1/8" NPT	Trailer Supply	N20961	.7 lbs.



## Haldex (New/Remanufactured) Push–Pull Tractor Parking (HBS)

- Controls TRACTOR ONLY parking.
- Made of durable (EGC) Engineering Grade Composite.
- Will not stay in half–on/half–off position.
- Bulkhead mount, requires 7/8 inch mounting hole.
- A better replacement for the PP–8

Part Number	Product Description	Pop Pressure	Knob Included	All Ports	Notes	OEM PN	Weight
KN20035	Push–Pull Tractor Parking Valve	17.5 ± 12.5 PSI	KN20902	1/8" NPT	Tractor Parking	N20964	.4 lbs.



## Haldex (New/Remanufactured) Push–Pull Panel Mount Valve (HBS)

- Panel mount.
- Includes knob and lock nut.
- Made of durable (EGC) Engineering Grade Composite.
- Faceplates listed later in this section.

Part Number	Product Description	Pop Pressure	Knob Included	All Ports	OEM Part Number	Weight
KN20031	Push–Pull Panel Mount Valve	25–35 PSI	A25079	1/4"	N20928CK	.26 lbs.



### Haldex (New/Remanufactured) Push–Pull Bulkhead Mount Valve (HBS)

- Bulkhead mount.
- Made of aluminum.
- Two and three way types.
- Fits 5/8" dashboard holes.

Part Number	Product Description	Type	All Ports	Repair Kit	Face Plate Included	Knob Included	OEM PN	Weight
A83580	Push–Pull Bulkhead Mount Valve	3–Way	1/4"	RN10JB	N14515BN Push–To–Release	A25079	AD83580 with threaded exhaust ports	.5 lbs.



### Haldex (New/Remanufactured) Push–Pull Hostler Valve (HBS)

- Panel or bulkhead mount.
- Requires 3/4" hole in dashboard.
- For in–cab applications.

Part Number	Product Description	Pop Pressure	Knob Included	Delivery Port	Exhaust Port	OEM PN	Weight
KN20010	Hand Operated Push–Pull Hostler Valve	25/40 PSI	N14514 Plain	1/4"	1/4"	N14488AE	.88 lbs.



### Competitive (Remanufactured) Bendix® PP–1 Push–Pull Valve (HBS)

- Commonly used to control parking and emergency brakes.
- Repair Kit use part number 281126K.

Part Number	Product Description	Sup.	Del.	Exh.	Automatic Release Pressure	Core Group	Weight
276566X	Reman. Bendix® PP–1 Push–Pull	1/8"	1/8"	1/8"	20 PSI	132PP1	.7 lbs.
276567X	Reman. Bendix® PP–1 Push–Pull	1/8"	1/8"	1/8"	40 PSI	132PP1	.7 lbs.



### Competitive (Remanufactured) Bendix® MV–3 (Manifold) (HBS)

- Non–metallic assembly.
- Control Panel Mounting in truck or tractor.
- Two push–pull valves and a dual circuit supply valve.
- Knobs not included.
- Maintenance Kit use part number 107216K.
- MV–3 Shuttle Kit use part number 107217K.



Part Number	Product Description	Reservoirs (2)	Delivery Tractor	Delivery Trailer	Exhaust	Mounting Hole Threads	Weight	Core Group
65157X	Remanufactured Bendix® MV–3 Manifold	1/4"	1/4"	1/4"	1/4"	.27" Unthreaded	1.5 lbs.	167MV3

# Air Brake Products

## Haldex (New/Remanufactured) Dual Circuit Foot Control Valve(HBS)

- Directly replaces competitive brands.
- Provides smooth and consistent pedal feel.
- Two separated, individual service brake circuits in a single housing.
- Each circuit individually controls front and rear service brakes.
- Meets FMVSS 121 requirements.



Part Number	Product Description	Supply (4)	Delivery (4)	Mounting Studs	Repair Kit	OEM Part Number	Weight
KN22150	Standard Tractor Dual Circuit – 1975 and Up	3/8" NPT	3/8" NPT	5/16"–24 Thread 5/8" Length	RN10JP	N30099LA	2.8 lbs.

## Haldex (New/Remanufactured) Single or Dual Circuit – Pedal Attached Foot Control Valve (HBS)

- Features either a single or dual circuit foot valve with pedal attached.
- An easy way to replace the entire assembly.
- Interchanges with competitive models.



Part Number	Product Description	Pedal Angle	Valve Included	OEM PN	Weight
KN22600	Single Circuit with Pedal Attached	45°	KN22100	N30072FA	4 lbs.

## Competitive (Remanufactured) Bendix® E–2 & E–3 Foot Control Valve (HBS)

- Floor mounted.
- Treadle or Lever actuated.
- Used in single circuit systems.
- Repair Kit use part number 276119K.



Part Number	Product Description	Supply	Delivery	Auxiliary	Notes	Core Group	Weight
277863X	Remanufactured Bendix® E–3	2 @ 1/2"	4 @ 1/2"	2 @ 1/4"	Slightly Longer Plunger than E–2	103E–6	1.3 lbs.

## Competitive (Remanufactured) Bendix® E–6 Dual Circuit Foot Control Valve (HBS)

- Floor mounted, treadle or lever operated.
- Two separate supply and delivery circuits for service and secondary braking.
- Meets FMVSS–121 requirements.
- Repair Kit use part number 287368K.



Part Number	Product Description	Supply (4)	Delivery (4)	Core Group	Weight
286171X	Remanufactured Bendix® E–6 Dual Circuit	3/8"	3/8"	103E–6	4.8 lbs.



### Haldex (New) One-Way Check Valves (HBS)

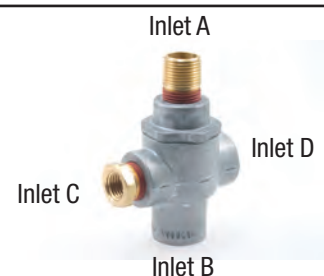
- Permits air flow in one direction only.
- Used wherever pressures must be isolated and not allowed to flow back.
- KN23020 equipped with Schrader valve; used to air system.
- All models are male-female thread except KN23080.
- Use heavy duty models on compressor discharge.

Part Number	Product Description	Inlet/Outlet	Length	Repair Kit	Notes	OEM Part Number
KN23000	One-Way Check Valve	1/2"	2.47"	RN10CH	Heavy Duty	N13526AJ
KN23010	One-Way Check Valve	3/8"	2.47"	RN10CH	Heavy Duty	N13526AG
KN23040	One-Way Check Valve	3/4"	2.31"	RN10Y	Standard	N13526J
KN23060	One-Way Check Valve	1/2"	1.85"	RN10HZ	Brass – 90° style	N13526BL



### Haldex (New) Two-Way Check Valve – Shuttle Type Valve (HBS)

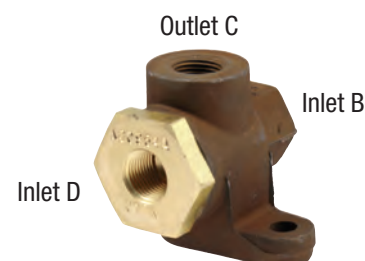
- Only mount horizontally as pictured.
- Interchangeable with most competitive models.
- Use when two valves must independently control or supply one system.
- Repair Kit use part number RN11W.



Part Number	Product Description	Inlet A	Inlet B	Outlet C	Outlet D	OEM Part Number	Weight
KN25080	Shuttle Type Two-Way Check Valve	3/8" NPT (male)	3/8" NPT (female)	3/8" NPT (female)	1/4" NPT (female)	N20966A	.6 lbs.

### Haldex (New) Two-Way Check Valve – Diaphragm Type Valve (HBS)

- Not position sensitive, may be mounted in any position.
- Can be used in place of ball or shuttle types.
- Use when two valves must independently control or supply one system.
- Repair Kit use part number RN11V.



Part Number	Product Description	Inlet B	Inlet D	Outlet C	OEM Part Number	Weight
KN25060	Diaphragm Type Two-Way Check Valve	3/8" NPT (female)	3/8" NPT (female)	3/8" NPT (female)	N20954A	.3 lbs.

### Auxiliary – Adjustable Air Regulating Valves (HBS)

- For auxiliary systems only. Not used in the brake system.
- Used in air systems where reduced pressure levels are required.
- Pressure settings are based on 100 PSI supply.
- Designed for constant supply, not on-off applications.
- Repair Kit use part number RN17Y.

Part Number	Product Description	Inlet	Outlet	Factory Pressure Setting	OEM Number	Weight
KN31060	Adjustable Air Regulating Valve for Auxiliary Systems	1/4" NPT	1/4" NPT	65 PSI	N15817K	.31 lbs.



# Air Brake Products

## Haldex (New/Remanufactured) Pressure Protection Valve (HBS)

- Used to protect the air brake system from accessory failure.
- Some models have accessory ports in addition to the 1/4" FPT inlet and outlet ports.
- Optional Filter use part number KN31025.



Part Number	Product Description	Open Operating PSI	Close Operating PSI	Inlet Port	Outlet Port	Accessory Port B	Accessory Port C	OEM Part Number	Weight
KN31000	Pressure Protection Valve	65 ± 8	56 ± 8	1/4" NPT	1/4" NPT	1/4"	1/8"	N15759DC	.70 lbs.
KN31010	Pressure Protection Valve	95 ± 9	83 ± 9	1/4" NPT	1/4" NPT	None	None	N15759DD	.70 lbs.

## Pressure Relief Valves (HBS)

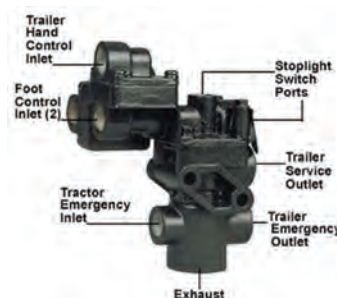
- Protects from damage due to excessive pressure.
- Made of brass and stainless steel.
- Will not rust or corrode.



Part Number	Product Description	Body Style	Thread Size	PSI	Notes	OEM PN	Weight
KN31200	Pressure Relief Valve	Short	1/4"	150	—	N1178AA	.3 lbs.
KN31250	Pressure Relief Valve	Short	3/8"	150	Pure Air	N1178BB	.3 lbs.
KN31300	Pressure Relief Valve	Short	1/2"	150	—	N1178AC	.3 lbs.
KN31400	Pressure Relief Valve	Long	1/4"	150	—	N1178CA	.3 lbs.
KN31450	Pressure Relief Valve	Long	3/8"	150	—	N1178CB	.3 lbs.

## Haldex (New/Remanufactured) Two-Line Manifold Style Tractor Protection Valves (HBS)

- Can replace up to four valves on competitive systems.
- Available with Push-To-Connect (PTC) fittings for nylon tubes.
- Repair Kit use part number RN31BC.
- Includes tractor protection, two double check valves, stoplight switch port, and built-in quick release, all in one valve.



Part Number	Product Description	Trac. Emer. Inlet	Foot Cont.	Hand Cont.	Stop Light Switch	Trlr. Serv. Outlet	Trlr. Emer. Outlet	Exh. Tube	OEM Part Number	Weight
KN34110	Two-Line	3/8"	2@3/8"	3/8"	1@1/4"	1/2"	1/2"	Yes	N30162MA	1.5 lbs.

### Haldex (New/Reman.) Two-Line Non-Automatic Tractor Protection Valves (HBS)

- Quick release feature eliminates the need for an extra valve.
- Will not allow trailer brake compounding.
- Directly replaces competitive valves.
- Available with Push-To-Connect (PTC) fittings for easy installation.

Part Number	Product Description	Tractor Service	Tractor Emer.	Trailer Service	Trailer Emer.	OEM Number	Weight
KN34060	Two-Line Non-Automatic	3/8"	1/4"	1/2"	1/2"	N20949CA	1.5 lbs.

*Notes: MUST BE USED WITH PRESSURE SENSING DASH CONTROL VALVE.*



### Haldex (New/Remanufactured) Two and Three-Line Automatic Tractor Protection Valves (HBS)

- Two and three-line automatic tractor protection with quick release.
- Can replace two valves on some competitive systems.
- Models with exhaust snorkel minimize in-cab noise by exhausting the trailer lines outside the cab.
- Repair Kit use part number RN31AR.

Part Number	Product Description	Trac. Cont.	Trlr. Serv.	Trlr. Emer.	Res.	Stoplight Switch	Dash Valve	Notes	OEM Part Number	Weight
KN34050	Three-Line Automatic	3/8"	1/2"	1/2"	3/8"	—	1/4"	With Exhaust Snorkel	N30073GA	1.5 lbs.



### Competitive (Remanufactured) Bendix® TP-5 Tractor Protection Valves (HBS)

Part Number	Product Description	Notes	Weight	Core Group
288605X	Remanufactured Bendix® TP-5	Threaded Mounting Holes	2.3 lbs.	113TP5



### Haldex (New) Quick Release Valve (HBS)

- Used wherever a quick release function is required in the air brake system.
- Made of durable (EGC) Engineering Grade Composite.
- Corrosion and weather resistant.
- Utilizes an oil resistant diaphragm for longer life.
- Available with Push-To-Connect (PTC) fittings.

Part Number	Product Description	Crack Pressure	Inlet	Delivery	OEM PN
KN32003	Quick Release Valve	3	1/2"	3/8"	N20959NA
KN32005	Quick Release Valve	0	3/8"	3/8"	N20959MB
KN32011	Quick Release Valve	0	1/2"	3/8"	N20959MA
KN32060	Quick Release Valve	6	3/8"	3/8"	N20959ND



# Air Brake Products

## Competitive (Remanufactured) Bendix® QR-1 Quick Release Valve (HBS)

- Decreases the release time on a brake application.
- Exhausts air through itself rather than through the controlling valve.
- Repair Kit not available.

Part Number	Product Description	Supply	Delivery	Exhaust	Core Group	Crack Pressure	Weight
229859X	Remanufactured Bendix® QR-1	3/8"	3/8"	—	118QR1	1 PSI	.8 lbs.
229860X	Remanufactured Bendix® QR-1	1/2"	3/8"	—	118QR1	1 PSI	.8 lbs.



## Competitive (Remanufactured) Bendix® QR-1C Quick Release and Double Check Valve (HBS)

- Functions as a Quick Release Valve for the emergency side of the spring brakes.
- Double Check Valve prevents simultaneous application of the emergency side of the spring brakes (Anti-Compounding).
- Supply and delivery differential is 1 PSI max.
- Repair Kit not available.

PN	Product Description	Supply	Delivery	Core Group	Crack Pressure	Weight
289714X	Remanufactured Bendix® QR-1C	1/4"	3/8"	118QR1	1 PSI	1.2 lbs.



## Haldex (New/Remanufactured) Automatic Drain Valves (HBS)

- Available Heated (12 volt 5 AMP) and Non-Heated.
- Mounts to side or bottom of wet tank.
- Functions when pressure varies in air tank.
- Only one moving part.
- Cable looped on both ends.
- Exhaust port must be facing down.
- Direct replacement for Bendix DV2.
- Repair Kit use part number RN10HH.
- Replacement Parts: 10027 5' Cable Kit, KN24100 Filter Assembly.



Part Number	Product Description	Manual Drain Valve	Cable Length	Notes	OEM PN	All Ports	Weight
KN24000	Automatic Drain Valve	Yes	60"	Non-Heated	N20878A	1/4"-18 threaded	1.7 lbs.
KN24001	Automatic Drain Valve	Yes	60"	Heated	N20879A	1/4"-18 threaded	1.7 lbs.

### Haldex (New/Remanufactured) Manual Drain Valves (HBS)

- Manual wet or dry tank drain valve.
- Allows complete draining of reservoirs.
- All models have 1/4" NPT (male) with sealant.
- Available with many cable options.
- Available in low or high profile design
- Replacement Cable Kit use part number 10027.

PN	Product Description	Profile Design	Cable Option	OEM PN	Weight
12100	Manual Drain Valve	High	Less Cable	N15841	0.3 lbs.
12103	Manual Drain Valve	High	36" Cable closed loop	N3613S	0.3 lbs.
12104	Manual Drain Valve	High	48" Cable closed loop	N3613Z	0.3 lbs.
12105	Manual Drain Valve	High	60" Cable closed loop	N3613AD	0.3 lbs.



### Competitive (Remanufactured) Bendix® DV-2 Valve (HBS)

- Mounts into bottom drain port of the reservoir.
- Only one moving part.
- Repair Kit use part number 282134K.

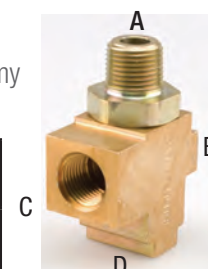
Part Number	Product Description	Notes	Core Group	Weight
281923X	Remanufactured Bendix® DV-2 Automatic Drain Valve	Non-Heated	146DV2	1.2 lbs.



### Isolation Valve (HBS)

- Used in conjunction with a turbocharged air compressor the isolation valve gives added fuel economy and greater engine efficiency.

Part Number	Product Description	Port A	Port B	Port C	Port D	Height	Weight	OEM Number
KN23500	Isolation Valve	To air dryer inlet port	To pipe plug	To compressor discharge	To governor unloader	3.18"	.25 lbs.	N15842J



### Solenoid Air Valve (HBS)

- Most commonly known as an axle valve or three-way ball check valve (normally closed) and is actuated by either 12 volt coil or 24 volt coil.
- Used to operate the shift mechanism of a two-speed axle.

Part Number	Product Description	Actuation Volts
KN68230	Solenoid Air Valve	12 Volts





# Air Brake Products

## Competitive (Remanufactured) Sealco Ratio Relay Trailer Valves (HBS)

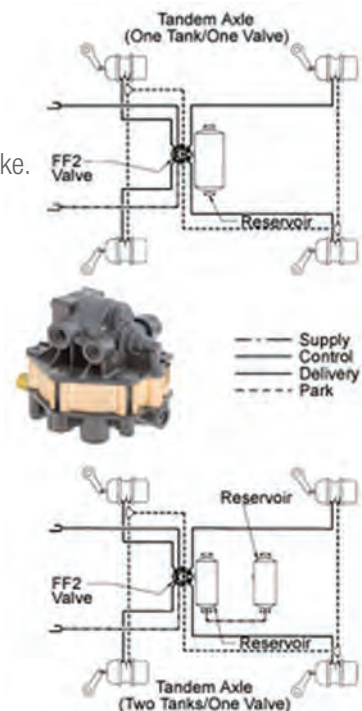
- Meets FMVSS–121 requirements.
- Used on trailers to control both parking and emergency brake functions.
- Repair Kit not available.



Part Number	Product Description	Supply	Delivery (4)	Reservoir (A)	Reservoir (B)	Control	Weight	Core Group
110171X	Reman. Sealco Ratio Relay – Protected Reservoir 90° Cover Plate Orientation	3/8"	3/8"	1/2"	3/8"	3/8"	3.9 lbs.	210
110500X	Remanufactured Sealco Ratio Relay – Spring Brake Priority	3/8"	3/8"	1/2"	3/8"	3/8"	4.0 lbs.	210

## Haldex (New/Remanufactured) FF2 – Full Function Valves (HBS)

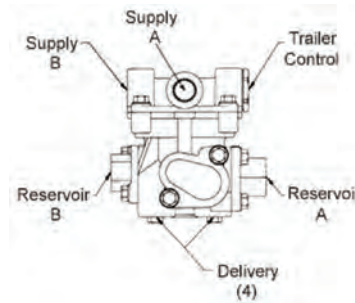
- Single valve system – easy to install, maintain and troubleshoot.
- Built-in pressure protection and anti-compounding functions:
  - FMVSS–121 compliant.
  - Eliminates broken foundation components caused by compounding of spring brake.
- Space age engineering grade composites:
  - Resists corrosion.
  - Lighter and more durable than aluminum.
- Built-in service and spring brake quick release.
  - Prompt application of spring brakes.
  - Quick release of service brakes.
- Heavy wall mounting nipple is treated to resist corrosion and withstand severe duty applications.
- Service brake priority ensures air tank pressure is sufficient to stop vehicle when spring brakes are first released.
- Can be used with single or twin air tanks.
- Valve combines a pressure protection valve, two one-way check valves, spring brake valve with quick release, and a four port relay valve.



Part Number	Product Description	Crack Press.	Res.	Cont.	Sup.	Spring Brake	Del. (4)	OEM Number	Weight
KN28600	FF2 – Full Function Trailer Valve	3.0 PSI	3/4"	1/4"	3/8"	2 @ 3/8"	3/8"	N4304AC	3 lbs.
KN28601	FF2 – Full Function Trailer Valve	3.0 PSI	1/2"	1/4"	3/8"	2 @ 3/8"	3/8"	N4304AB	3 lbs.

### Haldex (New/Remanufactured) RT4 Multi-Function Trailer Valves (HBS)

- Meets all FMVSS-121 trailer requirements for spring brake control and other regulations.
- Used on trailers to control both parking and emergency brake functions.
- Applies emergency (parking) brakes upon loss of trailer supply (emergency) line pressure.
- Controls reservoir charging.
- Interchangeable with competitive units
- The trailer control port is over reservoir port A.
- Repair Kit use part number RN10JM..



Part Number	Product Description	Trlr. Sup. (A)	Trlr. Sup. (B)	Trlr. Cont.	Res. (A)	Res. (B)	Del. (4)	PPV Closing Press.	OEM Part Number	Weight
KN26020	RT4 Multi-Function	Plugged	3/8"	3/8"	1/2"	3/8"	3/8"	70 PSI	N4305A	4.5 lbs.

### Haldex (New/Remanufactured) Emergency Relay Valve (4 Port)(HBS)

- Suitable for pre-121 trailers, converter dollies, or exempt trailers.
- Repair Kit use part number RN10HL.

Part Number	Product Desc.	Serv. Inlet	Emer. Inlet	Del. (4)	Aux. Res.	Res.	Crack Pressure	Remarks	OEM PN	Core Group	Weight
KN30400X	Reman. Emergency Relay Valve	1/4"	1/4"	3/8"	Plugged	3/4" with Nipple, Female	4.5± 1 PSI	Charging	N4301CB	225	3 lbs.



### Competitive (Remanufactured) Sealco Ratio Valve (HBS)

- 4-port delivery.
- Repair Kit not available.

Part Number	Product Description	Sup.	Res.	Del.	Control	Notes	Application	Core Group	Crack Pressure	Weight
110205X	Reman. Sealco Ratio Emergency Relay Valve	3/8"	3/4"	3/8"	3/8"	Charging	Pre FMVSS-121 Trailers	210	4.5 PSI	5.5 lbs.



### Automatic Drain Valve Repair Kits (HBS)





PN	Product Description	Application	OEM PN
10027	5' Cable Kit for Drain Valve	KN21004, KN21008, KN24000, KN24000X, KN24001, KN24001X, KN24002, KN24003, KN24005	SN153



# Air Brake Products

## Knobs for Push–Pull Valves (HBS)

- Engineering Grade Composite (EGC).
- Pin Included.

Part Number	Product Description	Mounting Shaft	Notes	OEM Part Number	Image
KN20900	Trailer Supply Knob for Pin Type Push–Pull Valves	3/8"	RCCC Red	N14514AA	
KN20901	Parking Brake Knob for Pin Type Push–Pull Valves	3/8"	RCCC Yellow	N14514AB	
KN20902	Tractor Parking Knob for Pin Type Push–Pull Valves	3/8"	RCCC Blue	N14514AC	
KN20903	System Brake Knob for Pin Type Push–Pull Valves	3/8"	RCCC Yellow	N14514AD	

## Haldex (New and Remanufactured) EL850 4–Hole Base Mount, Water Or Air Cooled Compressor (HBS)

- Belt Drive
- End Cap Oil Feed
- Base Oil Drain
- Changeover/Installation Instructions - L31043
- Service/Repair Instructions For Cylinder Head - L31059.
- Service Units are furnished without governors and manifolds and may require head rotation before installation or changeover.
- Thru–drive units must not exceed 65 ft. lbs. of transmitted torque.
- Port orientation viewed from front.
- Torque Nut to 80-100 ft. lbs.



Part Number	Product Desc.	Intake Manifold Position	Discharge Type	App.	OEM PN	H	W	L	Weight	External Shaft Length	Bore Dia.	Stroke	Rated Displacement
KN85020	EL850 4-Hole Base Mount	Right	Front-Threaded	Air Cooled Single Cylinder	N7502 Exact Replacement	11.00"	4.78"	10.08"	24 lbs.	2.22"	3.15"	1.50"	8.5 CFM @ 1250 RPM

### Competitive (Remanufactured) Bendix® TF501 (Style A, B and No Base) Base Mount Compressor (HBS)

- Pulley Drive
- Water and Air Cooled
- Port orientation viewed from rear.

PN	Product Desc.	Category	Air Inlet	Air Outlet	Discharge Type	Core Group	Weight
286528X	TF501 Base Mount	Base Style A	Left	Top	Threaded	501B	40 lbs.



### Competitive (Remanufactured) Caterpillar – Flange Mount Bendix® TF501 Compressor (HBS)

- Engine Drive
- Port orientation viewed from rear.

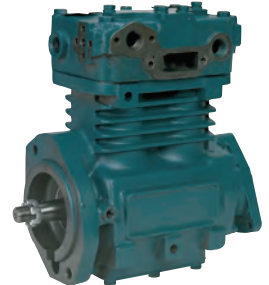
Part Number	Product Desc.	Cooling	Air Inlet	Air Outlet	Discharge Type	Notes	Core Group	Weight
103274X	TF501 Flange Mount – Caterpillar 3406B	Water/Air	Left	Top	Threaded	Tapered Shaft 2–3° Tilt	501F	40 lbs.



### Competitive (Remanufactured) Caterpillar – Flange Mount Bendix® TF550/TF750 Compressor (HBS)

- Engine Drive
- Optional Top or Left Discharge Type
- Port orientation viewed from rear.

Part Number	Product Description	Cooling	Air Inlet	Air Outlet	Notes	Core Group	Weight
107981X	TF550 Flange Mount – Caterpillar 3116 – 31.5° Tilt	Water	Left	Left/Top	Spline Shaft 11 Tooth	550M	60 lbs.



### Competitive (Remanufactured) Cummins/Holset Model SS296/SS296E/SS338E Compressor (HBS)

- Engine Drive
- Flange Mount
- Water Cooled
- Port orientation viewed from rear.

Part Number	Product Desc.	Cubic Ft/Min	Model	Air Inlet	Air Outlet	Unloader Port/Type	Application/Notes	Core Group	Weight
3558045X	Cummins Standard Case - Type SS296E	13.2	SS296E Super Single Cylinder	Left	Rear	Left/Direct	NT Engine E Unloaded version of 3049186	CUM-1	36 lbs.



## Air Brake Products

### Competitive (Remanufactured) Cummins/Holset Model QE296/QE338 Compressor (HBS)

- Engine Drive
- Water Cooled
- Port orientation viewed from rear.
- Flange Mount
- Threaded Discharge
- Unloader/Inlet Assembly not included.



Part Number	Product Description	Cubic Feet Per Minute	Model	Air Inlet	Air Outlet	Application/Notes	Core Group	Weight
3558072X	Cummins L10/N14 - Type QE296	13.2	QE296 Quiet Economy Single Cylinder	Left	Rear	Iron Head/Cover Intake Valve Retainer	CUM-1	42 lbs.

### Haldex (New and Remanufactured) EL1300/EL1600 60-Series DDC Compressor (HBS)

- Flange Mount, Gear Drive
- Top/Threaded Discharge Type
- End Cap Oil Feed
- Flange Oil Drain
- Thru drive units must not exceed 65 ft. lbs. of transmitted torque.
- Port orientation viewed from front.
- Service Units are furnished without governors and manifolds and may require head rotation and end cap rotation before installation or changeover.



Part Number	Product Desc.	Head Rotation	Block Rotation	Notes	OEM PN	Core Group	H	W	L	Weight	Bore Dia.	Stroke	Rated Displacement
EL13312X	Reman. Detroit Diesel Flange Mount	Right	Right	Thru-Drive Adapterless	NT7031B	1331	12.00"	7.10"	9.90"	75 lbs.	2.75"	1.50"	13.0 CFM @ 1250 RPM

### Piston Type Governors (HBS)

- Operates in conjunction with the compressor unloading mechanism.
- Automatically controls the air pressure in the air supply system between the desired predetermined maximum and minimum pressures.
- Direct compressor or remote mount.
- Service Kit use part number RN32W.

Part Number	Product Desc.	Cut-In Pressure	Cut-Out Pressure	Adj.	OEM PN	Port Thread Size	Mounting Holes	Weight
KN18530	Piston Type Governor	105 PSI	125 PSI	Yes	N30190A	1/8-27 NPT (Unless Noted)	.336 dia.	1 lbs.





### Competitive (Remanufactured) Governors (HBS)

- Standard Unit
- Can use KN18530 and KN18530X for this application also.
- D2 Maintenance Kit use part number 276121K.
- D2 High Temp Kit use part number 280915K.



Part Number	Product Description	Port Size Reservoir	Port Size Unloader	Port Size Exhaust	Cut-In Pressure	Cut-Out Pressure/Range	Weight
275491RX	Remanufactured D-2 Style Governor - CoreFree™	1/8"	1/8"	1/8"	105-110	15-30 PSI Cut-In above	1 lbs.

### Changeover Kits (HBS)

Part Number	Product Description	Application	Length
KN17501	Compressor Discharge Line Kit (Flexible)	For easy changeover from a Bendix side mount discharge to a top discharge Midland compressor.	24"
KN17504	Compressor Discharge Line Kit (Flexible)	For easy changeover from a Bendix side mount discharge to a top discharge Midland compressor.	60"



### Switches (HBS)

Part Number	Product Description	Volts	Actuation Pressure	Circuit Position	Design	Pole Size	OEM Number	Image
BE13240	Tractor Spring Brake Circuit Light Switch	12 or 24	55 PSI	Normally Closed at 0 Pressure	Single Pole Two Terminal	1/8-27 NPTF Thread - Typical	13240A	
BE13241	Low Air Switch	12 or 24	66 PSI	Normally Closed at 0 Pressure	Single Pole Two Terminal	1/8-27 NPTF Thread - Typical	13241A	
BE13250	Service Circuit Stoplight Switch	12 or 24	3-5 PSI	Normally Open at 0 Pressure	Single Pole Two Terminal	1/4-18 NPTF Thread - Typical	3250	
BE13255	Trailer Emergency Stoplight Switch	12 or 24	55 PSI	Normally 1 Open and 1 Closed	Single Pole Double Throw Three Terminal	1/8-27 NPTF Thread - Typical	13255A	

# Air Brake Products

## Ranger Brake Products, Inc. (ABC)

*"A U.S. Manufacturer of quality spring brakes and heavy duty products."*

Ranger Brake Products, Inc. is a privately owned engineering based manufacturer producing a complete line of world class spring brakes, piggybacks, and service chambers. Utilizing our in house ability to efficiently eliminate cost VIA automation and system controls, we continue to push forward as a U.S. manufacturer while maintaining all the advantages of foreign competitors with cheap labor. We are completely committed to providing the world's best value when it comes to the 4 things that matter most.



1. *Price: It is our 100% guarantee to be the most competitive option worldwide considering apples to apples comparisons.*
2. *Quality: As a family business, our reputation and very livelihood depends on good quality, "period". By utilizing stringent system controls, we allow ourselves to produce high quality products with consistency that does not exist elsewhere.*
3. *Service: Whether it be shipping service, lead time, or customer service, we absolutely dominate the industry. We ship 99.8% of our orders on time. When you need to call us, you will always speak with a vested member of our family team. There is no better service than speaking with a true professional that lives and breathes their profession. Just try us.*
4. *Customers: We service many of the world's most elite customers in both the OEM and aftermarkets, and we would like nothing more than an opportunity to go to work for you.*

### Diaphragms

D-9000	Type 9 Diaphragm
D-12000	Type 12 Diaphragm
D-16000	Type 16 Diaphragm
D-20000	Type 20 Diaphragm
D-24000	Type 24 Diaphragm
D-30000	Type 30 Diaphragm
D-36000	Type 36 Diaphragm

### Service Chambers

12SC	Type 12 Service Chamber
16SC	Type 16 Service Chamber
20SC	Type 20 Service Chamber
24SC	Type 24 Service Chamber
30SC	Type 30 Service Chamber

### Clamp Assembly

3000CA00

### OEM Sealed Spring Brake Combos

2424C	Type 2424 OEM Sealed Spring Brake Combo
2430C	Type 2430 OEM Sealed Spring Brake Combo
3030C	Type 3030 OEM Sealed Spring Brake Combo
3036C	Type 3036 OEM Sealed Spring Brake Combo
3636C	Type 3636 OEM Sealed Spring Brake Combo

### Piggyback Kits

All kits come with 1 diaphragm, 2 clamps and installation hardware.

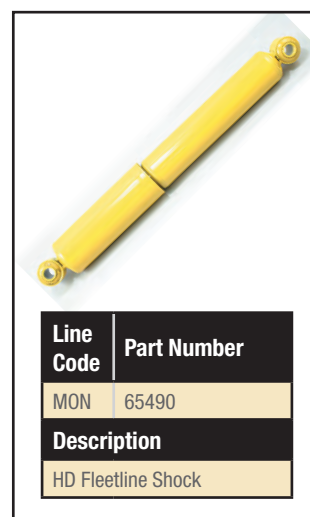
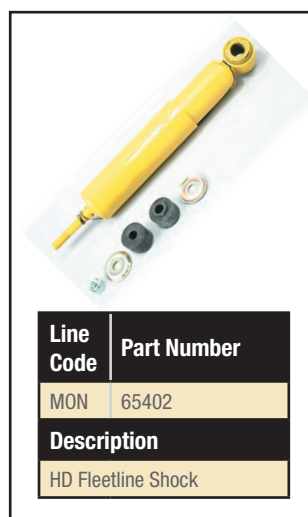
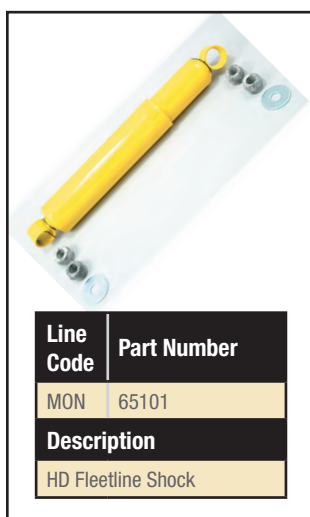
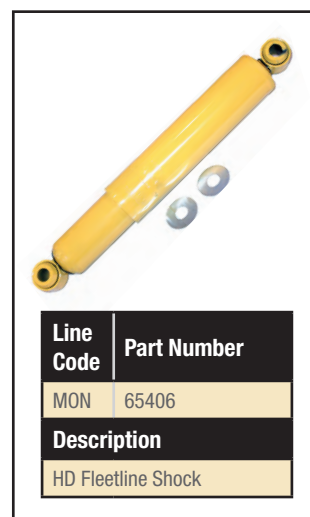
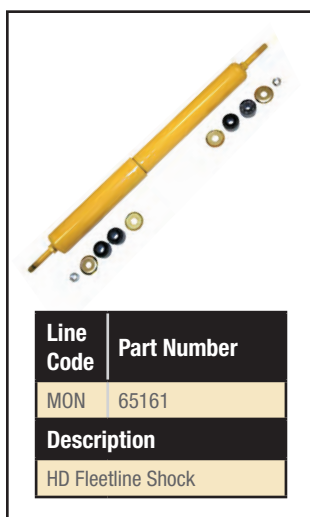
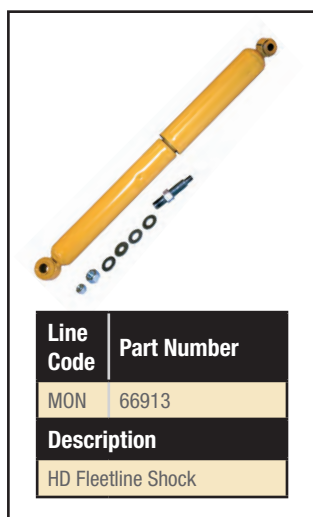
2424PBK	Type 2424 Piggyback Kit
2430PBK	Type 2430 Piggyback Kit
3030PBK	Type 3030 Piggyback Kit
3636PBK	Type 3636 Piggyback Kit

### Clevis Assemblies

10026A	1/2" x 5/8" Clevis Assembly
10026B	5/8" x 5/8" Clevis Assembly
10026C	1/2" x 1/2" Clevis Assembly

## Heavy Duty Shocks (MON)

Chrome-plated piston rods keep rust at bay, providing an optimum sealing surface and extending the life of the seal. So, unlike others, we chrome-plate the piston rods on every shock we make – not just the "premium" ones. We also utilize a superior wiper seal design which helps ensure a durable, leak proof seal. And we rigorously test and validate all of our designs.



# Suspension

## Goodyear Air Springs (ABG)

Goodyear Air Springs are used on trucks, trailers, buses and cab & seat springs to protect cargo, provide constant level hauling and deliver long trouble free service. They offer a quiet, cushioned ride. Air Springs last longer than steel springs because there is less vibration. The driver rides in greater comfort, becomes less fatigued and stays more alert. The cargo has better protection from shock and vibration. When used with leveling valves, a more consistent trim is maintained regardless of the load. That means clearance heights remain constant and that trailer floors are flush with loading dock floors for ease of loading and unloading.

### Air Suspension Features & Benefits

- Reduces need for electrical and instrument maintenance
- Reduces cab and body damage
- Reduces axle, transmission and tire wear
- Reduces downtime
- Extends trailer life
- Greater drive comfort and reduced driver fatigue
- Improves isolation in both loaded and unloaded conditions
- Broadens the types of loads available for transport, such as electronic equipment where air springs are required by the shipper
- Protects hinges, lights, rivets and all trailer hardware

Part Number	Top	Bottom	Side
1R11-028	ASA-92-8-024 		 <b>1R11-028</b>
1R12-069	AS1-92-8-041 		 <b>1R12-069</b>
1R12-090	ASA-92-8-052 		 <b>1R12-090</b>
1R12-092	ASA-92-8-164 		 <b>1R12-092</b>
1R12-303	ASA-92-8-440 		 <b>1R12-303</b>
1R12-532	ASA-92-8-331 		 <b>1R12-532</b>
1R13-119	ASA-92-8-235 		 <b>1R13-119</b>

The **GOODYEAR** (and Winged Foot Design) trademark is used by Veyance Technologies, Inc. under license from The Goodyear Tire & Rubber Company.



### U-Bolts (MTM)

Durable steel construction. Resistant to rust and corrosion.

Part Number	Bend	Size
35626	Round	1/2" X 9" X 3"



### U-Bolts (GAS)

Mounts leaf springs.

Part Number	Bend	Diameter	Inside Width	Inside Length
AC130136	Round	1/2"	3-1/8" (8 cm)	8" (20.3 cm)
AC130140	Square	5/8"	2-5/8" (6.7 cm)	13" (33 cm)
AC130138	Square	9/16"	2-5/8" (6.7 cm)	12" (30.5 cm)

Square  
U-Bolt



Round  
U-Bolt

### Round Bend U-Bolt Kits (WAP)

Part Number	Diameter	Leg Length	Between Legs	Thread Length	Thread	Application	Material Grade
WA07-5012	7/8"	12"	3"	8"	7/8" - 14	Tractor Trailer	5
WA07-5013		14"	3"				
WA07-5015		18"	3"				
WA07-7148		14"	3 1/2"				
WA07-5016		14"	5"				



### IR Height Control Valves (HBS)

- A non-time delay valve used under a wide variety of climatic and payload conditions.
- Heavy duty Height Control Valve inflates or exhausts air springs to maintain suspension ride height.

Part Number	Product Description	Horizontal Arm Length	Vertical Arm Length	Axle Bracket Linkage	Notes	All Ports
KN27000	EGP Standard Flow Leveling Valve Kit	12" (Max)	14"	Vertical	Adjust and cut arms to desired length for application.	1/4" NPT
KN27013	EGP High Flow Leveling Valve Kit	12" (Max)	14"	Vertical	Adjust and cut arms to desired length for application.	1/4" NPT





# Suspension

## Height Control Valve (HBS)

- All ports are 1/8" NPT.
- Original equipment on many Trucks and Trailers
- Automatically adds air to, or exhausts air from air suspension to maintain constant static design height.
- Does not respond to short duration dynamic changes in axle position, thus reducing air consumption which extends compressor life and saves fuel.

SKU#	Product Description	Dump Valve Included	Fittings Provided	Notes	Images
90054007	Type CR - Controlled Response Height Control Valve	No	1/4"	Replaces KN90054007. Individually Packaged Top Port - Exhaust Middle Port - Air Spring Bottom Port - Supply	

## Reyco Equalizer – Trailer Suspensions (WAP)

Part Number	Replaces	Application
WA125000	T-5427	21B, 22B, Suspensions. Use M-2936 bushing assembly. Bushings not included. Use M-2819 roller assembly.



## Trailmobile Equalizer Assembly – 3 1/2" Springs (WAP)

Part Number	Replaces	Application
WA125129	3-A66-43	For 3 1/2" Wide Fabricated Series. 16" Overall Length Includes M-1464 Bushing.



## Hutchens Equalizer Assembly – Fabricated Steel (WAP)

Part Number	Replaces	Application
WA125017	750-03	H-7600, H-7700 H.D. Fabricated Steel. Includes M-1452 Bushing.



## Hutchens Suspension Parts – Equalizer Assembly-Fabricated (WAP)

Part Number	Replaces	Application
WA125027	16158-01	H-9700 Includes Bushing M-3483





### Hutchens Bolt Kits For Equalizers (WAP)

Part Number	Application	Assembly Contains
WA125026	Hutchens H-7600 and H-7700 Suspensions	2 M-1453 Bolt 2 M-1455 Nut 1 M-1454 Tab 2 M-2973 Roller Assembly



### Fruehauf Equalizer Bushing Assembly (WAP)

Part Number	Applicaition	Assembly Contains
M-1806	F Suspensions use with M-2150 and M-2884 Equalizers	1 M-1807 Bolt 2 M-1808 Bushing 1 M-1809 Washer 1 M-2869 Washer 1 M-1889 Nut



### Hutchens Spring Roller Assembly (WAP)

Part Number	Replaces	Thread	Length	Application
WA125025	759-00 Bolt 756-00 Tube 37-03 Nut	5/8" - 18	4 3/4"	Use With M-2146, M-2147, M-2879 Equalizers



### Reyco Equalizer Components - Equalizer Bushing Assembly (WAP)

Part Number	Application	Assembly Contains
WA125111	21B, 22B Suspensions Use With M-1670 Equalizer	2 M-1719 Bushing 1 M-1721 Shaft 2 M-1720 Washer 2 M-1770 Bolt 2 M-1771 Washer



### Hutchens Top Plate For U-Bolts (WAP)

Part Number	Replaces	Width	Length	Model	Application
WA125019	7029-00	3"	7 1/2"	H7600 & H7700	Standard & No-Hop Axles



# Driveline & Clutch

## Universal Joints (ATM & UJ)

- Journal cross is high-quality alloy steel forging.
- Journal crosses are heat treated in a carburizing process that produces bearing-quality case-hardened steel which maximizes life expectancy.
- Bearing cups are carburized and case hardened to a uniform depth for strength and durability. Cups are precision ground for precise lock-up tolerances and exact fit in mating yoke ears.
- Needle bearings are sized for maximum load-carrying capacity.
- Seals are made of nitrile rubber for optimal grease retention and contaminant exclusion. They are pliable, yet tough and abrasion resistant.
- Lubrication grooves feature a 360° distribution pattern which ensures that grease penetrates around the entire circumference of the journal and between all needle bearings.
- Grease fitting provides preventive maintenance re-lubrication capability.



MFG	Part Number	Lock-Up	Lock-Up	Bearing Cap Diameter	Bearing Cap Diameter	Bearing Type	Lube Fitting	Series
ATM	5-279X	5.312	5.312	1.875	1.875	Round w/Plate	W/ 2 Lube Fittings In Cross	1610 Series
ATM	752.5279X*	5.312	5.312	1.875	1.875	Round w/Plate	W/ 2 Lube Fittings In Cross	1610 Series
ATM	5-674X	5.312	5.312	1.875	1.875	Round w/Plate / Round	W/ 2 Lube Fittings In Cross	1610 Series
UJ	230-0674*	5.312	5.312	1.875	1.875	Round w/Plate / Round	W/ 2 Lube Fittings In Cross	1610 Series
ATM	5-280X	6.094	6.094	1.937	1.937	Round w/Plate	W/ 2 Lube Fittings In Cross	1710 Series
ATM	752.5280X*	6.094	6.094	1.937	1.937	Round w/Plate	W/ 2 Lube Fittings In Cross	1710 Series
ATM	5-281X	7.547	7.547	1.937	1.937	Round w/Plate	W/ 2 Lube Fittings In Cross	1810 Series
ATM	752.5281X*	7.547	7.547	1.937	1.937	Round w/Plate	W/ 2 Lube Fittings In Cross	1810 Series
ATM	5-407X	7	7	1.937	1.937	Round w/Plate	W/ 2 Lube Fittings In Cross	1760 Series
ATM	752.5407X*	7	7	1.937	1.937	Round w/Plate	W/ 2 Lube Fittings In Cross	1760 Series
ATM	5-0675X	6.094	6.187	1.937	1.937	Round w/Plate / Round	W/ 2 Lube Fittings In Cross	1710 Series
UJ	876*	6.094	6.187	1.937	1.937	Round w/Plate / Round	W/ 2 Lube Fittings In Cross	1710 Series
ATM	5-0676X	7.547	7.64	1.937	1.937	Round w/Plate / Round	W/ 2 Lube Fittings In Cross	1810 Series
UJ	878*	7.547	7.64	1.937	1.937	Round w/Plate / Round	W/ 2 Lube Fittings In Cross	1810 Series
ATM	5-0677X	7	7.093	1.937	1.937	Round w/Plate / Round	W/ 2 Lube Fittings In Cross	1760 Series
UJ	877*	7	7.093	1.937	1.937	Round w/Plate / Round	W/ 2 Lube Fittings In Cross	1760 Series
ATM	SPL170-4X	6.024	6.457	2.165	2.165	Round w/Plate / Round	W/ 1 Lube Fitting In Cross	SPL170 Series
ATM	SPL250-3X	5.984	6.413	2.361	2.361	Round w/Plate / Round	W/ 1 Lube Fitting In Cross	SPL250 Series

\* Value Line



### Drive Shaft Center Bearings Carrier Bearings (BGS)

Part Number	Bore	Centerline	Bolt Holes	Slinger	Type
HB106FF	1.260	1.950	5.900		2
HB10S	1.575				2
HB206FF	1.181	3.500			1
HB206FF	1.181	1.950	5.900		2
HB88107A	1.378	2.280	6.624		2
HB88107B	1.378	2.230	6.600	230118 230121	2
HB88107C	1.378	2.230	6.600	230118(2)	2
HB88107E	1.378	2.230	6.600	230141 230104 98-1473	2
HB88508	1.575	2.479	6.625		2
HB88508A	1.575	2.280	6.625		
HB88508AA	1.575	2.280	6.625	231004(2)	
HB88508AB	1.575	2.280	6.625	231004 231000	2
HB88508B	1.575	2.470	6.625	230124 230209	2
HB88508C	1.575	2.479	6.625	230207 230208	2
HB88508E	1.575	2.479	6.625	230124(2)	2
HB88509	1.772	2.710	7.600		2
HB88509A	1.772	2.710	7.600	230151(2)	2
HB88509C	1.772	2.710	7.600	230151 230363	2
HB88510	1.969	2.810	7.620	230166(2)	2
HB88512A	2.362	3.370	8.630	230746(2)	2
HB88512AHD	2.362	3.370	8.630	230746(2)	2
HB88512AS	2.362	3.370	8.630	230746(2)	2

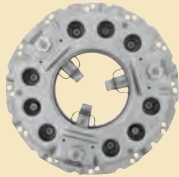

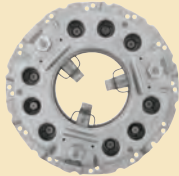

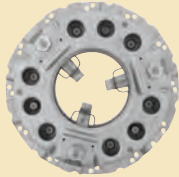
## Hinged Clutch Brake Kits (HCL)

Part Number	Product Description	Spline Size
BK312	Hinge Clutch Brake	1-3/4"
BK313	Hinge Clutch Brake	2"








## Haldex 13" Lipe Clutch Packs (HCL)

- Remanufactured Lipe Clutch Packs contain a remanufactured cover assembly and new disc assembly.
- Replacement disc assemblies available in new only.

Part Number	Product Description	Cover Assembly	Disc Assembly	Disc Type	Max. Torque	Bolt Circle	Application	Core Group	Image
RC1933114X	Reman. Push Type, Single Plate, Flat Flywheel, 1.25"-10 Spline	RC3301933X	1300091802	Damp Organic	350	14.125 14.625	Perkins Navistar	LP3301	
RC1938127X	Reman. Push Type, Single Plate, Flat Flywheel, 1.38"-10 Spline	RC3301938X	1300091903	Damp Ceramic	350	14.125 14.625	Ford/Dodge	LP3301	
RC1935136X	Reman. Push Type, Single Plate, Flat Flywheel	RC3301935X	3300091865	Damp Ceramic	500	375mm 14.764	Renault	LP3301	
RC1938137X	Reman. Push Type, Single Plate, Flat Flywheel	RC3301938X	1300091904	Damp Ceramic	500	14.125 14.625	Chevrolet GMC	LP3301	
RC2077136X	Reman. Push Type, Single Plate, Flat Flywheel	RC3302077X	3300092078	Damp Ceramic	500	14.125 14.625	CAT 3116 Engine CAT 3126 Engine	LP3301	

### Haldex 14" Lipe Clutch Packs (HCL)

- Remanufactured Lipe Clutch Packs contain a remanufactured cover assembly, new disc assemblies and new intermediate plate.

Part Number	Product Description	Cover Assy.	Disc Assy.	Intermed. Plate	Disc Type	Max. Torq.	Bolt Circle	App.	Core Group	Image
RC1854618X	Reman. Pull Type, Single Plate, Flat Flywheel, 1.75"-10 Spline	RC141854X	1400092211	—	Damp Ceramic	650	15.5	Various	LP1402	
RC1714718X	Reman. Pull Type, Two Plate, Flat Flywheel, 1.75"-10 Spline with Adapter Ring AK285	RC141714X	1400092210 (FWS) 1400092211 (PPS)	C0250082	Damp Ceramic	1850	—	Chevrolet GMC Ford Navistar	LP1402	
RC1047604X	Reman. Push Type, Single Plate, Flat Flywheel, 1.5"-10 Spline	RC141047X	1400091027	—	Damp Organic	500	15.5	Chevrolet GMC Ford	LP1401	
RC1686607X	Reman. Push Type, Single Plate, Flat Flywheel, 1.5"-10 Spline	RC141686X	1400092208	—	Damp Ceramic	500	15.5	Chevrolet GMC Diesel	LP1401	
RC1686640X	Reman. Push Type, Single Plate, Flat Flywheel, 1.5"-10 Spline	RC141686X	1400091998	—	Damp Ceramic	550	15.5	Chevrolet GMC Gas	LP1401	

### Lipe and Spicer Drive Pin (HCL)




- 6 pack

Part Number	Product Description
C0260032	Lipe and Spicer Drive Pin







## 14" Spicer Type Stamped Steel Clutch Packs (HCL)

- Spicer Type "RC" Clutch Packs contain remanufactured cover assembly, new disc assemblies and resurfaced intermediate plate.

Part Number	Product Description	Disc Type	Max. Torque	Approx. Weight	Application	Core Group	Image
RC747DCX	Reman. Pull Type, Single Plate, Flat Flywheel, 1.75"–10 Spline	Damp Ceramic	900	70 lbs.	Ford Navistar	MU1404	
RC044STDCX	Reman. Pull Type, Two Plate, Flat Flywheel, 1.75"–10 Spline	Damp Ceramic	1375	110 lbs.	Ford Navistar	MU1404	
RC044STD0X	Reman. Pull Type, Two Plate, Flat Flywheel, 1.75"–10 Spline	Damp Organic	1250	110 lbs.	Ford Navistar	MU1404	

## 14" Spicer Type Clutch Packs – Standard (HCL)

- Easy–Pedal™ designated by EZ in part number
- Kevlar® (Dupont Corporation)
- Carbotic® (Wellman Friction Products)
- Contains remanufactured cover assembly, new disc assemblies and resurfaced intermediate plate.

Part Number	Product Description	Max. Torque	Disc Type	Approx. Weight	Core Group	Image
RC400DCX	Standard Reman. Pull Type, Two Plate, 2.937" Recess Flywheel, 1.75"–10 Spline	1400	Damp Ceramic	104 lbs.	MU1403	
RC400DOX	Standard Reman. Pull Type, Two Plate, 2.937" Recess Flywheel, 1.75"–10 Spline	1150	Damp Organic	103 lbs.	MU1403	
RC390EZDCX	Standard Reman. Pull Type, Two Plate, 2.937" Recess Flywheel, 2.0"–10 Spline	1400	Damp Ceramic	108 lbs.	MU1405	
RC390EZDOX	Standard Reman. Pull Type, Two Plate, 2.937" Recess Flywheel, 2.0"–10 Spline	1150	Damp Organic	106 lbs.	MU1405	



### 15 1/2" Spicer Type Clutch Packs – Standard (HCL)

- Kevlar® (Dupont Corporation)
- Easy–Pedal™ designated by EZ in Part Number
- Typical application could vary depending upon vehicle.
- Carbotic® (Wellman Friction Products)
- Rigid discs not recommended.
- Remanufactured Clutch Packs contain remanufactured cover assembly

Part Number	Product Description	Maximum Torque Pounds–Feet (Pack)	Disc Springs	Disc Type	Typical Application	Required Flywheel Bore Diameter	Core Group	Image
RC018EZHTX	Heavy Duty Reman. Pull Type, Two Plate, Flat Flywheel, 2.0"–10 Spline	1860	10 Springs	Damp Ceramic 6 Button	Cat 3406B/E DDA 60 Series Early Mack	8.5"	MU1505	
RC018EZ	Standard Reman. Pull Type, Two Plate, Flat Flywheel,	1650	10 Springs	Damp Ceramic	Cat 3406B/E DDA 60 Series Early Mack	8.5"	MU1505	
RC597EZDCX	Standard Reman. Pull Type, Two Plate, Flat Flywheel, 2.0"–10 Spline	1450	–	Damp Ceramic (Lipe Style Discs)	Various	7"	MU1505	
RC597EZDOX	Standard Reman. Pull Type, Two Plate, Flat Flywheel, 2.0"–10 Spline	1200	–	Damp Organic	Various	7"	MU1505	
RC698EZ	Standard Reman. Pull Type, Two Plate, Flat Flywheel, 2.0"–10 Spline	1650	9 Springs	Damp Ceramic	Late Mack E6/E7	10"	MU1505	
RC700EZHTX	Standard Reman. Pull Type, Two Plate, Flat Flywheel, 2.0"–10 Spline	2050	7 Springs	Damp Ceramic 6 Button	Cummins N–14	10"	MU1505	
RC700EZ	Standard Reman. Pull Type, Two Plate, Flat Flywheel, 2.0"–10 Spline	1650	7 Springs	Damp Ceramic	Cummins N–14	10"	MU1505	

# Steering Gears

## Haldex Light Duty Steering Gears – Remanufactured (HHG)

Part Number	Product Description	Weight	Stamped #	Casting #	Year	Type	Core Group
RG1456X	Remanufactured Light Duty Steering Gear	30 Lbs.	SPA HY	3550	1997–00	Ford F100–F350 Truck 2WD & 4WD	SG1101



## Haldex Bendix® Steering Gear Kit (HHG)

Part Number	Product Description	MFG. #
RG300K	Steering Gear Kit for Bendix® Model 300	C300N–SK



## Haldex Bendix® Steering Gears – Remanufactured (HHG)

Part Number	Product Description	Weight	MFG. #	Casting #	Hoses	Mounting Bolts	Sector Shaft	Input Spline	OEM #	Core Group
RG22603X	Remanufactured Bendix® Model 300 Steering Gear	60 lbs.	2260377	2260377	2	3	Clamp	Flat	E8HT3N503AD	SG9000

## Haldex Bendix® Steering Gears – Remanufactured (HHG)

Part Number	Product Description	Weight	MFG. #	Casting #	Service Kit	Core Group
RG78131X	Reman. Saginaw Steering Gear – Dual Piston Gear, Metric	52 lbs.	781316M	7813161 Metric	Dual Kit RG78003	SG6001
RG78133X	Reman. Saginaw Steering Gear – Dual Piston Gear – Metric	60 lbs.	26002502	–	Dual Kit RG78003	SG6004



## Haldex Sheppard 492 Series Steering Gears – Remanufactured (HHG)

Part Number	Product Description	MFG Number	Core Group
RG49201X	Reman. Sheppard 492 Series	492SHM6–X3	SG4001
RG49206X	Reman. Sheppard 492 Series	492SF	SG4001
RG49207X	Reman. Sheppard 492 Series	492SDW	SG4001

## Haldex TRW/Ross HFB64 Series Steering Gears – Remanufactured (HHG)

Part Number	Product Description	MFG. #	Casting #	OEM #	Weight	Seal Kit	Core Group
RG64052X	Reman. TRW/Ross HFB64 Series	HFB64052	HFB642945	E2HT3N503BA	85 lbs.	RG64002	SG4001
RG64055X	Reman. TRW/Ross HFB64 Series	HFB64055	HFB642976	20QC4294A	85 lbs.	RG64002	SG4001
RG64128X	Reman. TRW/Ross HFB64 Series	HFB64128	–	–	85 lbs.	RG64002	SG4001





### Haldex Shellard Remanufactured M100 & M80 Steering Gears (HHG)

- Sector Shaft 4.75 Tapered Bolt with Washer
- Approximate Weight 95 lbs.

Par Number	Product Description	Stamped Number	Casting Number	OEM Number	Core Group
RG100APHEX	Reman. Sheppard M100 Series	PHE	M100 Auto	3519043C91	SG9000
RG100PBYX	Reman. Sheppard M100 Series	PBY	M100	14-103340	SG4001
RG100PCNX	Reman. Sheppard M100 Series	PCN	M100	667306C91	SG4001
RG100PCXX	Reman. Sheppard M100 Series	PCX	M100	—	SG9000
RG100PDQX	Reman. Sheppard M100 Series	PDQ	M100	—	SG4001
RG100PFSX	Reman. Sheppard M100 Series	PFS	M100	—	SG4001
RG100PHDX	Reman. Sheppard M100 Series	PHD	M100	3501229C91	SG9000
RG100PHEX	Reman. Sheppard M100 Series	PHE	M100	3501032C91	SG4001
RG100PJCX	Reman. Sheppard M100 Series	PJC	M100	—	SG4001
RG100PJHX	Reman. Sheppard M100 Series	PJH	M100	—	SG4001
RG100PMXX	Reman. Sheppard M100 Series	PMX	M100	3501032C91	SG9000
RG100PPGX	Reman. Sheppard M100 Series	PPG	M100	—	SG4001
RG80SADX	Reman. Sheppard M80 Series	SAD	M80	1667449C91	SG9000



### Haldex TRW/Ross HFB70 Series Steering Gears – Remanufactured (HHG)

Part Number	Product Description	MFG. #	Casting #	OEM #	Weight	Seal Kit	Core Group
RG70114X	Remanufactured TRW/Ross HFB70 Series Steering Gear	HFB70114	—	—	110 Lbs.	RG70001	SG5001



### Eaton B-Pump – Remanufactured (HHG)

- Supplied with the necessary oil rings for servicing the reservoir.

Part Number	Product Description	Axle Weight	Shaft Length	Rotation	GPM	PSI	OEM #	MFG. #	Truck/Engine Application	Core Group
RP40104X	Remanufactured Eaton B-Pump, Spline Shaft	12000 lbs.	3-1/4"	CW	4.3	1750	E2HZ3A674J 478781C91	ER15467-1	Ford, IHC, White, Autocar/Cummins Engine	PS4001
RP40106X	Remanufactured Eaton B-Pump, Spline Shaft	16000 lbs.	2-1/2"	CCW	7.5	1750	E4HT3K514DB	—	—	PS4001

# Steering Gears

## Haldex TRW/Ross TAS Series Steering Gears – Remanufactured (HHG)

Part Number	Product Description	Manufacture Number	Casting Number	OEM Part Number	Weight	Seal Kit	Core Group
RG40006X	Reman. TAS Series	TAS40006	TAS402299	16885882C91	85 Lbs.	RG65000	SG4001
RG65010X	Reman. TAS Series	TAS65010	TAS652291	F2HZ3504F	85 Lbs.	RG65000	SG4001
RG65012X	Reman. TAS Series	TAS65012	TAS652290	20QC535AM	85 Lbs.	RG65000	SG4001
RG65014X	Reman. TAS Series	TAS65014	TAS652295	38301–3409	85 Lbs.	RG65000	SG4001
RG65015X	Reman. TAS Series	TAS65015	TAS652289	1161330	85 Lbs.	RG65000	SG4001
RG65024X	Reman. TAS Series	TAS65024	TAS652292	10–02379	85 Lbs.	RG65000	SG4001
RG65047X	Reman. TAS Series	TAS65047	TAS652291	FOHT3N503BA	85 Lbs.	RG65000	SG4001
RG65048X	Reman. TAS Series	TAS65048	TAS652291	F1HT3N503EA	85 Lbs.	RG65000	SG4001
RG65092X	Reman. TAS Series	TAS65092	TAS652290	20QC535AM	85 Lbs.	RG65000	SG4001
RG65102X	Reman. TAS Series	TAS65102	TAS652295	90022655	85 Lbs.	RG65000	SG4001
RG65105X	Reman. TAS Series	TAS65105	TAS652267	F6HZ3504DB	85 Lbs.	RG65000	SG4001
RG65119X	Reman. TAS Series	TAS65119	TAS652262	14–12475–000	85 Lbs.	RG65000	SG4001
RG65133X	Reman. TAS Series	TAS65133	TAS652296	–	85 Lbs.	RG65000	SG4001
RG85002X	Reman. TAS Series	TAS85002	TAS852298	38301–3419	85 Lbs.	RG65000	SG8501
RG85024X	Reman. TAS Series	TAS85024	–	38301–0007	85 Lbs.	RG65000	SG8501
RG85134X	Reman. TAS Series	TAS85134	TAS852276	14–14955–001	85 Lbs.	RG65000	SG8501



## Haldex Eaton HE Series – New (HHG)

Part Number	Product Description	Axle Weight	GPM	PSI	OEM #	MFG. #	Application
RP70801	New Eaton HE Series Pump	12000 lbs.	4.5	2100	15627488	21591/22033/1	GM

## Haldex Eaton 600 Series – New (HHG)

Part Number	Product Description	Axle Weight	GPM	PSI	OEM #	MFG. #	Application
RP70601	New Eaton 600 Series Pump	12000 lbs.	6	2400	15735506	HE1200222	GM

## Haldex Eaton B–Pump – Remanufactured (HHG)

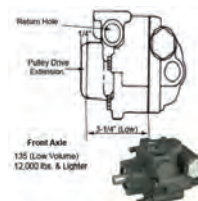
• Supplied with the necessary oil rings for servicing the reservoir.

Part Number	Product Description	Axle Wgt.	Shaft	Rotation	GPM	PSI	OEM #	MFG. #	Truck/Eng. App.	Core Group
RP40301X	Remanufactured Eaton B–Pump, Pulley/Belt Driven	12000 lbs.	Smooth Key	CW	4.5	1750	493115C91	ER15183–1	Ford, IHC/Gas & Diesel	PS4001
RP40302X	Remanufactured Eaton B–Pump, Pulley/Belt Driven	16000 lbs.	Smooth Key	CW	7.5	2000	DOHZ3A674A 478782C91	ER15323–1	Ford, IHC/Gas & Diesel	PS4001



### Haldex Eaton BB-Pump – New/Remanufactured (HHG)

Part Number	Product Description	Axle Weight	GPM	PSI	OEM #	MFG. #	Application	Core Group
RP70113X	Remanufactured Eaton BB-Pump, Pulley Driven, Straight Shaft	12000 – 14000 lbs.	5.5	2000	89683508	ER17127	GRADALL	PS7001



### Haldex LUK 73 Series – New (HHG)

Part Number	Product Description	Manufacture Number
RP12110	New LUK 73 Series Pump	LF73CRUB38



### Haldex Saginaw Steering Pumps – New/Remanufactured (HHG)

Part Number	Product Description	Casting Number	Manufacture Number	Engine	Model	Core Group
RP145X	Reman. Saginaw Power Steering Pump – GM Light Duty	7830247	–	Chevrolet 3500 Light Duty without reservoir	Bushing Type	PS2010
RP20201X	Reman. Saginaw Power Steering Pump – Chevrolet / GMC / IHC	7812808	488787C91	Chevrolet/GMC	Big Bearing	PS2002
RP8747X	Reman. Saginaw Power Steering Pump – GM Light Duty	5698119	15909826	C1500 Series Pick-Up Truck – Light Duty	Bushing Type	PS2010



### Haldex TRW EV Series – Remanufactured (HHG)

Part Number	Product Description	OEM Number	Rotation	Shaft	Housing	Relief Setting	Core Group
RP221614X	Remanufactured TRW EV Series Power Steering Pump	EV181615L101	Left	11 Tooth	SAE A Flange – JIC port	2175 PSI	PS1006



# Steering Gears

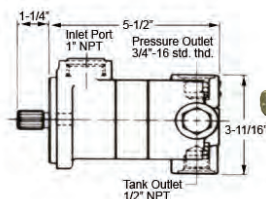
## Haldex TRW PS Series – Remanufactured (HHG)

Part Number	Product Description	OEM PN	Rotation	Shaft	Housing Outlet/Inlet	Relief Setting	Core Group
RP221608X	Remanufactured TRW New Style Power Steering Pump	PS251615L111	Left	11 Tooth	Left/Top	2100 PSI	PS1006
RP221609X	Remanufactured TRW New Style Power Steering Pump	PS221615L111	Left	11 Tooth	Left/Top	2175 PSI	PS1006
RP221611X	Remanufactured TRW New Style Power Steering Pump	PS251415R102	Right	11 Tooth	Right/Top	2175 PSI	PS1006
RP221612X	Remanufactured TRW New Style Power Steering Pump	PS221412R102	Right	11 Tooth	Right/Top	1750 PSI	PS1006
RP221613X	Remanufactured TRW New Style Power Steering Pump	PS221615L116	Left	11 Tooth	Right/Top	2175 PSI	PS1006
RP221615AX	Remanufactured TRW New Style Power Steering Pump	PS251615R114	Right	11 Tooth	Left/Right	2175 PSI	PS1006
RP221615X	Remanufactured TRW New Style Power Steering Pump	PS251615L102	Left	11 Tooth	Right/Top	2175 PSI	PS1006



## Haldex V-10F & NF Series Pump – Remanufactured (HHG)

· Comes with all gaskets necessary for mounting to engines.



Part Number	Product Description	Axle Weight	GPM	PSI	OEM #	MFG. #	Application	Core Group
RP50105X	Remanufactured V-10F Series with Spline Shaft	12000 lbs.	6	1700	502503-3	V10F1P6P38C6G	Peterbilt	PS5001



## Haldex ZF Gear Driven – Remanufactured (HHG)

Part Number	Product Description	Shaft	Rotation	Gallons Per Minute	PSI	ZF Number	OEM Number	Core Group
RP11016X	Remanufactured Zahnrdfabrik Fridrichshafen Power Steering Pump – Gear Drive	Gear	Clockwise	4.5	2325	7674 900 112	F6HZ3A711VA	PS1101



# Battery & Electrical Products



## Heavy Duty Batteries (BAT & BEP)

**CARQUEST Platinum AGM:** Trade up to a more powerful, longer lasting battery.

- Up to 2x the life of a standard flooded battery.
- Patented stamped grid technology in both positive and negative grids resulting in superior performance and longer life in high heat and demanding environments.
- Superior Vibration Resistance.
- Certified NONSPILLABLE for safety and flexibility in mounting location.

CARQUEST Farm and Commercial:

- OE Replacement
- Reliable Starting power
- Stamped Positive Grid technology for longer life
- Anchor bonding for vibration resistance.

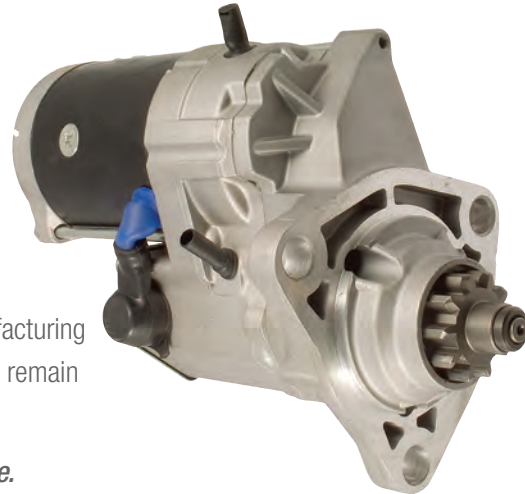


MFG	Part Number	Vehicle Type	Volts	CCA@ 0°F (Amps)	Weight (lbs)	Length (in)	Width (in)	Height (in)
BEP	1-8V30	Farm and Truck	8	520	32.61	9.02	6.83	8.88
BEP	1-30	Farm and Truck	6	700	31.01	8.92	6.82	8.75
BEP	19L40	Farm and Truck	6	525	26.00	8.50	7.00	7.50
BEP	2-30	Farm and Truck	6	610	36.01	10.38	7.13	8.75
BEP	4-30	Farm and Truck	6	1000	50.11	12.63	6.98	9.50
BAT	5D30	Farm and Truck	6	880	50.00	13.75	7.12	9.38
BAT	17TF30	Farm and Truck	12	530	58.50	17.00	6.88	8.00
BEP	29NF40	Farm and Truck	12	420	38.08	12.96	5.54	9.00
BEP	31HDP30	Farm and Truck	12	1000	61.00	13.00	6.81	9.44
BEP	31HDS30	Farm and Truck	12	1000	61.41	13.00	6.81	9.44
BEP	31P30	Farm and Truck	12	950	60.01	13.00	6.81	9.44
BEP	31S30	Farm and Truck	12	950	59.91	13.00	6.81	9.44
BEP	31XP-24	Farm and Truck	12	660	61.00	13.00	6.81	9.44
BEP	31XP30	Farm and Truck	12	760	56.21	13.00	6.81	9.44
BEP	31XS-24	Farm and Truck	12	660	61.00	13.00	6.81	9.44
BEP	31XS-30	Farm and Truck	12	750	57.11	13.00	6.81	9.44
BEP	3EE30	Farm and Truck	12	400	43.01	19.31	4.38	9.00
BEP	3EH30	Farm and Truck	12	875	51.01	19.31	4.38	10.00
BEP	3ET30	Farm and Truck	12	460	49.01	19.31	4.38	9.88
BEP	4D30	Farm and Truck	12	1000	97.46	20.75	11.13	9.84
BEP	4DLT30	Farm and Truck	12	860	87.34	20.00	11.13	7.95
BEP	8DX24	Farm and Truck	12	1155	123.74	20.75	11.13	9.84
BEP	908DFT	Farm and Truck	12	1400	132.30	20.75	11.13	9.84
BEP	GC12V	Farm and Truck	12		81.00	12.92	7.06	10.53
BEP	NG31CS	Farm and Truck	12	825	67.25	12.97	6.82	9.35
BAT	8C12	Floor Scrubber & Sweeper	12	195 A/H Cap	116	15 1/2	7	14 1/4
BAT	G110-12	Golf Cart	6	230 A/J Cap	64	10 1/4	7 1/8	10 7/8
BEP	GC2	Golf Cart	6	215 A/H Cap	60.5	10 1/4	7 1/8	10 7/8
BEP	GC8	Golf Cart	8	165 A/H Cap	68	10 1/4	7 1/8	11 1/8
BAT	8D30	Commercial Service	12	1400	130	20 3/4	11	10





# Battery & Electrical Products

## WAlglobal Starters and Alternators (HRE)

WAlglobal is a manufacturer of 100% NEW alternators and starters for Automotive, Industrial, Heavy Duty, Agriculture and Power Sports applications. WAlglobal maintains the highest levels of quality systems including TS 16949, ISO 9001 and ISO 14001 and strives to provide our customers with a full line of products at competitive pricing. With established global sales and distribution centers, advance designs and state-of-the-art manufacturing facilities in China along with a team of experienced and seasoned staff, we remain the First-to-Market supplier with the latest model products available.



*For our full line coverage, please see our CARQUEST Application Guide.*

Part Number	Starter /Alternator
<b>72-19501N</b>	Denso R5 Series OSGR 5.0kW/12 Volt, CW, 10-Tooth Pinion
	<p><b>Used on:</b> Freightliner, International, Kenworth, Peterbilt, Sterling, Volvo Truck w/ Caterpillar C11, C13, C15; Cummins ISM Engines</p> <p><b>Replaces:</b> Denso 428000-442</p>
<b>72-19502N</b>	Denso R5 Series OSGR 5.0kW/12 Volt, CW, 10-Tooth Pinion
	<p><b>Used on:</b> Freightliner, International, Kenworth, Peterbilt, Sterling w/ Cummins M11 Engines; Freightliner*, International, Kenworth, Sterling, Volvo Truck w/ Detroit Diesel S60 Engines; Mack E-Tech, E-7</p> <p><b>Replaces:</b> Denso 428000-443</p>
<b>72-19503N</b>	Denso R5 Series OSGR 5.0kW/12 Volt, CW, 10-Tooth Pinion
	<p><b>Used on:</b> Freightliner, International, Kenworth, Peterbilt, Sterling, Volvo Truck w/ Cummins N14 Engines; Freightliner, International w/ Cummins ISX Engines</p> <p><b>Replaces:</b> Denso 428000-444</p>
<b>72-6356N</b>	Delco 42MT Series 12 Volt, CW, 11-Tooth Pinion
	<p><b>Used on:</b> Cummins, Ford, Freightliner, International, Kenworth, Mack, New Holland, Peterbilt, Steiger, Sterling, Volvo, Waukesha, Western Star and White</p> <p><b>Replaces:</b> Caterpillar 2N2761, 8L8206, PR5347, PR5348; Cummins 3021034; Delco 1990337, 348, 352, 354, 358, 363, 375, 376, 386, 392, 396, 398, 400, 420, 423, 424, 458, 465, 468, 470, 475, 477, 478, 483, 495; 1993803, 807, 816, 823, 975, 985; 10478810, 963; 10479037, 065, 072, 081, 110, 112, 113, 150, 185, 277; Delco Reman. 10461038, 10461052; IHC 263819C91, 510275C91</p>

## WAlglobal Starters and Alternators (HRE)

Part Number	Starter /Alternator
<b>72-6371N</b>	Delco 42MT Series 12 Volt, CW, 12-Tooth Pinion
	<p><b>Used on:</b> Agco Gleaner, Case, Caterpillar, Cummins, Kenworth, Lister-Petters, Massy Ferguson, New Holland, Perkins, Steiger, White</p> <p><b>Replaces:</b> Caterpillar 0R5218, 7N6503, 9L3597; Cummins 3603864RX, 3910645; Delco 1990353, 356, 362, 370, 379, 385, 387, 394, 399, 403, 404, 405, 425, 429, 441, 443, 452, 467, 469, 471, 480, 487, 492, 496; 1993772, 775, 783, 795, 806, 820, 935, 937, 938, 939, 942, 943, 961, 983; 10478803, 804, 835, 931, 934, 936, 992, 994, 10479004, 10479052, 10479117, 10479162, 10479191; Delco Reman. 10461021; IHC 430138C91, 673796C92</p>
<b>72-6513N</b>	Delco 42MT Series 12 Volt, CW, 11-Tooth Pinion, OCP Thermostat
	<p><b>Used on:</b> Chevrolet, Ford, Freightliner, International, Mack, Peterbilt, Sterling, Volvo, Western Star</p> <p><b>Replaces:</b> Delco1990428 &amp; others; Delco Reman. 10461028, 10461055</p>
<b>72-6777N</b>	Delco 42MT Series 12 Volt, CW, 12-Tooth Pinion, OCP Thermostat
	<p><b>Used on:</b> Freightliner, International, Peterbilt, Sterling, Volvo Trucks</p> <p><b>Replaces:</b> Delco 1990406, 408, 427; 10461063, 064, 233, 10479131</p>
<b>72-6910N</b>	Delco 39MT Series 12 Volt, CW, 12-Tooth Pinion, OCP Thermostat
	<p><b>Used on:</b> Freightliner, Sterling, Western Star w/ Mercedes MBE-4000 Engines</p> <p><b>Replaces:</b> Delco 8200082, 8200084, 8200287, 8300008, 8300013, 10461773, 19011514, 19011525</p>
<b>72-6911N</b>	Delco 39MT Series 12 Volt, CW, 11-Tooth Pinion, OCP Thermostat
	<p><b>Used on:</b> Freightliner, International, Volvo Truck w/ Caterpillar C10, C11, C12, C13, C15; Cummin ISX Engines</p> <p><b>Replaces:</b> Delco 8200033, 040, 083, 289; 8300009; 10461753, 753, 753, 777; 19011506, 516, 518, 519, 521</p>
<b>72-6912N</b>	Delco 39MT Series 12 Volt, CW, 11-Tooth Pinion, OCP Thermostat
	<p><b>Used on:</b> Kenworth, Peterbilt w/ Caterpillar C9, C10, C11, C12, C15; Cummins ISM, ISX Diesel Engines</p> <p><b>Replaces:</b> Delco 8200050, 8200090, 8200104, 8200290</p>

# Battery & Electrical Products

## WAlglobal Starters and Alternators (HRE)







Part Number	Starter /Alternator
<b>72-6913N</b>	Delco 39MT Series 12 Volt, CW, 11-Tooth Pinion, OCP Thermostat
	<p><b>Used on:</b> Mack Trucks E-7</p> <p><b>Replaces:</b> Delco 8200037, 288; 8300020; 19011500, 505, 531; 10461334</p>
<b>72-6914N</b>	Delco 39MT Series 12 Volt, CW, 12-Tooth Pinion, OCP Thermostat
	<p><b>Used on:</b> Volvo Trucks D12</p> <p><b>Replaces:</b> Delco 8200186, 8200291, 8300004, 19011515</p>
<b>71-8076N</b>	Alternator - Delco 22SI Series 145 Amp/12 Volt, 1-Wire System, Neg. Grd.
	<p><b>Used on:</b> International-Navistar</p> <p><b>Replaces:</b> Delco 19020306, 19020310</p>
<b>71-8329N</b>	Alternator - Leece-Neville / Motorola 8LHA Series 160 Amp/12 Volt, wo/ Pulley, Dual Foot J-180 Mount
	<p><b>Used on:</b> Ford, Freightliner, International, Kenworth, Mack, Peterbilt, Sterling, Volvo, Volvo Penta, Westerbeck, Western Star</p> <p><b>Replaces:</b> Leece-Neville / Motorola 8LHA2070V, VB, VE; 110-555, HD, JHO</p>
<b>71-8362N</b>	Alternator - Delco 22SI Series 145 Amp/12 Volt, 1-Wire System, Neg. Grd.
	<p><b>Used on:</b> Freightliner, International, Kenworth, Mack, Peterbilt, Sterling, Volvo, Western Trucks</p> <p><b>Replaces:</b> Delco 19020387, 388, 389, 803, 804, 889; 10459318, 320, 321</p>
<b>71-8410N</b>	Alternator - Leece-Neville / Motorola 8LHP Series 160 Amp/12 Volt, wo/ Pulley, 4-Point Pad Mount
	<p><b>Used on:</b> Ford, Freightliner, International, Kenworth, Mack, Peterbilt, Sterling, Volvo, Western Star</p> <p><b>Replaces:</b> Leece-Neville / Motorola 8LHP2170V, VE, VH; 110-555P, PHO</p>

## WAlglobal Starters and Alternators (HRE)

Part Number	Starter /Alternator
<b>71-8612N</b>	Alternator - Delco 36SI Series 170 Amp/12 Volt, Neg. Grd
	<p><b>Used on:</b> Freightliner, IHC, Kenworth, Peterbilt, Sterling, Volvo, Western Star Trucks</p> <p><b>Replaces:</b> Delco 8600072, 082, 126, 177; 8700041, 046</p>
<b>71-8613N</b>	Alternator - Delco 36SI Series 170 Amp/12 Volt, Neg. Grd
	<p><b>Used on:</b> Kenworth, Peterbilt Trucks</p> <p><b>Replaces:</b> 71-8614N</p>
<b>72-3905N</b>	Delco 50MT Series 12 Volt, CW, 11-Tooth Pinion
	<p><b>Used on:</b> Chevrolet, GMC, Freightliner, Kenworth, Mack, Peterbilt, Volvo, Western Star, White</p> <p><b>Replaces:</b> Cummins 3604680RX; Delco 1109295, 1109545, 1109554, 1109790, 1990261, 1990277, 10461056</p>
<b>72-4930N</b>	Delco 50MT Series 24 Volt, CW, 11-Tooth Pinion
	<p><b>Used on:</b> Allis Chalmers, Autocar, Case, Caterpillar, Chevrolet, GMC, Clark, Cummins, Dresser, Drott, Euclid, Fiat-Allis, ford, freightliner, Grove Mfg, Hough, Ingersoll Rand, International, John Deer, Kenworth, Mack, Murphy Diesel, Peterbilt, Steiger, Versatile, Volvo, Wabco, Waukesha, Western Start, White</p> <p><b>Replaces:</b> Delco 1109222, 285, 286, 287, 288, 289, 290, 291, 292, 293, 296, 298, 494, 553, 631, 636, 638, 642, 643, 647, 649, 755, 759, 768, 771, 772, 774, 775, 776, 777, 778, 780, 782, 787, 791, 838, 839, 840, 841, 842, 843, 845, 846, 961, 965, 972, 973, 977, 978, 979, 986, 987; 1990229, 231, 235, 237, 239, 248, 249, 250, 251, 259, 260, 262, 263, 264, 268, 269, 270, 271, 273, 274, 276</p>
<b>72-6348N-PT</b>	Delco 37MT Heavy Duty Positive Engagement 12 Volt, CW, 10-Tooth Pinion - Heavy duty positive engagement solution for 37MT starters Eliminates the milling and stop ring & collar failure common on the 37MT design 41MT positive engagement drive
	<p><b>Used on:</b> Chevrolet Truck, GMC Truck, Ford Truck</p> <p><b>Replaces:</b> Delco 1990308, 1993738, 1993759, 1993789, 1993850, 1993855</p>
<b>72-6360N</b>	Delco 42MT Series 24 Volt, CW, 12-Tooth Pinion
	<p><b>Used on:</b> Chevrolet and GMC car and light duty Truck</p> <p><b>Replaces:</b> Caterpillar 2S0900, 4N3182, 4N7905, 9M1662; Delco 1990357, 359, 433, 453, 457, 497; 1993797, 804, 809, 814, 833, 929; Delco Reman. 10461025</p>

# Battery & Electrical Products

## WAlglobal Starters and Alternators (HRE)

Part Number	Starter /Alternator
<b>72-6370N</b>	Delco 42MT Series 24 Volt, CW, 11-Tooth Pinion
	<p><b>Used on:</b> Case, Caterpillar, Cummins, Freightliner, International, Kenworth, Mack, Volvo, western Star, White</p> <p><b>Replaces:</b> Delco 1990456, 1990485 &amp; others; Delco Reman. 10461024</p>
<b>72-6380N-PT</b>	Delco 37MT Heavy Duty Positive Engagement 12 Volt, CW, 12-Tooth Pinion - Eliminates the milling and stop ring & collar failure common on the 37MT design
	<p><b>Used on:</b> Cummins, International-Navistar, Waukesha Motors</p> <p><b>Replaces:</b> Cummins 3910643; Delco 1990316, 317, 319; 1993713, 763, 778, 794, 871, 874, 931; 10461008</p>
<b>72-6391N-PT</b>	Delco 37MT Heavy Duty Positive Engagement 12 Volt, CW, 10-Tooth Pinion - Eliminates the milling and stop ring & collar failure common on the 37MT design
	<p><b>Used on:</b> Ford Trucks, International-Navistar Trucks</p> <p><b>Replaces:</b> Delco 1990312, 1993761, 1993818, 1993880</p>
<b>72-6398N-PT</b>	Delco 37MT Heavy Duty Positive Engagement 12 Volt, CW, 10-Tooth Pinion - Eliminates the milling and stop ring & collar failure common on the 37MT design
	<p><b>Used on:</b> Ford Truck 6.6L, 7.8L Diesel</p> <p><b>Replaces:</b> Cummins 3604673RX, Delco 1990347, 1993767, 1993854; Ford E5HT-11001-AA, E6HZ-11002-A, E9HT-11001-BA, E9HZ-11002-A</p>
<b>72-6505N-PT</b>	Delco 37MT Heavy Duty Positive Engagement 12 Volt, CW, 10-Tooth Pinion - Eliminates the milling and stop ring & collar failure common on the 37MT design
	<p><b>Used on:</b> Chevrolet, GMC Medium Duty Trucks w/ Cat 3116 Diesel 6.6L; Freightliner Medium Duty Trucks w/ Cat 3126 Diesel</p> <p><b>Replaces:</b> Delco 1993963, 10461081</p>
<b>71-7613N-LC</b>	Alternator - Leece-Neville 2800LC Series 160 Amp/12 Volt, Neg. or Pos. Grd., wo/ pulley
	<p><b>Used on:</b> Ford School Buses, Trucks w/ Cummins 5.9L (FD1060), 8.3L (FD1460) Engines</p> <p><b>Replaces:</b> Leece-Neville 2800LC, A0012800LC</p>



# Water Pumps & Cooling System



## Gates Heavy Duty Water Pumps (HWP)

Part Number	Product Description	MFG. No.	Casting No.	Notes	Approx. Weight	Core Group	Picture
<b>Caterpillar</b>							
43233HD	Remanufactured Water Pump for Caterpillar 3208 Engine	2W1225	9N3076	Bolt on Pulley (3 belt)	16.0 lbs.	WP1001	
45009HD	Premium Remanufactured Water Pump for Caterpillar 3406B/C Engine – Flat Gear	7W7019 7C4957 OR8217	9N5034	Gear Driven Premium Oil & Water Seal Design Includes basic O-rings and Gaskets for the Pump only	40.0 lbs.	WP1002	
44054HD	Remanufactured Water Pump for Caterpillar 3406B/C/E Engine – Dome-Shaped Gear	613890 OR4120 OR8330 OR8218 10R0483	100-7479	Gear Driven Includes basic O-rings and Gaskets for the Pump only	39.5 lbs.	WP1029	
<b>Cummins</b>							
44086HD	Reman. Water Pump for Cummins Big Cam III, IV Engine – CoreFree™	3022474 (3801788)	218274	4.675 Diameter Multi-Groove Pulley 4-1/2" Impeller Vented	26.0 lbs.	WP1003	
44064HD	Remanufactured Water Pump for Cummins Small Cam FFC Engine	3000886 3801784 (AR45090)	219040 210238	7 Hole Mount 2 Groove Pulley 5-1/4" Impeller Non-Vented	28.0 lbs.	WP1003	
44092HD	Reman. Water Pump for Cummins Big Cam IV Engine	3801708	3045163	4.275 Diameter Multi-Groove Pulley 4-1/2" Impeller Vented	27.0 lbs.	WP1003	
T2212	Remanufactured Water Pump for Cummins B-Series Engine	3802358 (3802004)	3913132	B-Series Engine 4 & 6 Cylinder	5.9 lbs.	WP1047	
42352HD	Remanufactured Water Pump for Cummins C-Series Engine	3802081	3903357	C-Series Diesel Engine	8.5 lbs.	WP1043	

Continued on next page.






# Water Pumps & Cooling System

## Gates Heavy Duty Water Pumps (HWP)

Part Number	Product Description	MFG. No.	Casting No.	Notes	Approx. Weight	Core Group	Picture
<b>Cummins</b>							
44052HD	Reman. Water Pump for Cummins N14 Series Engine	3803605 (3803361)	3069644 3076523	Multi-Groove Pulley	26.0 lbs.	WP1045	
43307HD	Reman. Water Pump for Cummins L-10 Series and M-11 Engine; 1991 and After	3803403	3882615	3-Hole Mount	18 lbs.	WP1034	
<b>Detroit Diesel</b>							
44066HD	Reman. Water Pump for Detroit Diesel 60 Series Engine "Pocket Style"	—	23522721	High Flow Capacity 6 Vane Impeller "Pocket Style"	31 lbs.	WP1048	
46001HD	Reman. Water Pump for Detroit Diesel 8.2 Liter Engine	8928672 8926904	8828804	No Pulley With Heater Outlet	31.0 lbs.	WP1030	
<b>Econodyne</b>							
43240HD	Reman. Econodyne Water Pump for Mack E-6 Engines	316GC1219AX	360GB443	Flush Impeller Without Pulley	13.0 lbs.	WP1023	
<b>Ford</b>							
T3094	Reman. Water Pump for Ford 6.6 & 7.8 Liter Engines	E9TZ8501B	E7H- N8508AA	Auxiliary Mount 3/4" Outlet Cab Over	18.4 lbs.	WP1046	
<b>International</b>							
43325HD	New Water Pump for International DT466 & DT466E Engines	1842664C92	1841765C1	Bolt on Pulley 5 Bolt Pump	3.5 lbs.	—	No Picture Available

*Continued on next page.*

## Gates Heavy Duty Water Pumps (HWP)

Part Number	Product Description	MFG. No.	Casting No.	Notes	Approx. Weight	Core Group	Picture
<b>Navistar</b>							
44058HD	Reman. Water Pump for Navistar DT466 Engine	685155C92	677856C1	Belt Driven Conventional Cab Pulley Not Supplied	19.2 lbs.	WP1016	
RW1303X	Reman. Water Pump for Navistar DT466, DT414, & DT456 Engines	673162C94	675806C2	Belt Driven Press-On Hub	18.0 lbs.	WP1017	
44059HD	Reman. Water Pump for Navistar DTA360 & DT466 Engines	1815538C91	677856C3	Belt Driven Bolt On Hub Left Hand Thread Pulley Not Supplied	22.0 lbs.	WP1016	
42318HD	Reman. Water Pump for Navistar DT360 & DT466 New Generation Engines	1817687C92	1821935C1 1821935C3	Stamped Steel Impeller	10.0 lbs.	WP1060	
43545HD	Reman. Water Pump for Navistar 7.3 Liter DT444E Engine	1831676C91 1823669C92 1831676C92	1822851C1	Direct Injection	26.8 lbs.	WP1062	

# Water Pumps & Cooling System

## Heavy Duty Belt Tensioners (DAY)

Lasts up to 3 times longer than competitive aftermarket tensioners. The longest lasting belt pulleys in the industry. Superior bearings out perform OE Idler Pulleys. Robust and high quality pulley materials withstand contaminants.



Part Number	Makes	Material	Belt Type	Width (mm)	Outside Diameter (mm)	Weight (lbs)
89231	Bluebird, Cadillac, Chevrolet, Collins, GMC, Isuzu, Mid Bus, Oldsmobile, Thomas Built, Workhorse	Thermoplastic	6-Rib V-Ribbed Belt	25	70	1.3
89246	Ford	Steel	8-Rib V-Ribbed Belt	37.5	90	3.8
89268	Chevrolet, GMC	Steel	6-Rib V-Ribbed Belt	30.5	76	1.8
89221	Ford	Steel	6-Rib V-Ribbed Belt	30.5	90	2.5
89202	Chevrolet, GMC	Steel	6-Rib V-Ribbed Belt	37.5	90	2.8
910016A	Dodge	Steel	8-Rib V-Ribbed Belt	33	76.2	3.7
910019A	Freightliner, Kenworth, Peterbilt, Sterling, Western Star	Steel	8-Rib V-Ribbed Belt	32.5	75	4.1
910502A	Sterling	Steel	8-Rib V-Ribbed Belt	32.5	75	3.9
910503A	Freightliner, Sterling, Western Star	Steel	10-Rib V-Ribbed Belt	40	75	4.1
910015A	Bluebird, Case, Dresser-Dressta, Freightliner, NewFlyer, New Holland, Orion, Peterbilt, Thomas Built	Steel	10-Rib V-Ribbed Belt	40	75	4.2
910002A	Autocar, Fixible, Freightliner, Gillig, International/Navistar, Kenworth, NABI, New Flyer, Orion, Peterbilt, Volvo	Steel	10-Rib V-Ribbed Belt	40	75	4.3
910559A	Ford, Freightliner, International/Navistar, Kenworth, Orion, Peterbilt, Setra, Sterling, Western Star	Steel	10-Rib V-Ribbed Belt	40	75	4.25
910010A	Bluebird, Freightliner, International/Navistar, John Deere, Peterbilt, Thomas Built	Steel	10-Rib V-Ribbed Belt	40	75	4.2
910017A	Caterpillar, Freightliner, International/Navistar, Kenworth, Peterbilt	Steel	10-Rib V-Ribbed Belt	40	75	4.2
910040A	Bluebird, Chevrolet, GMC	Steel	8-Rib V-Ribbed Belt	32.5	75	3.9
910006A	Amtran, International/Navistar	Steel	12-Rib V-Ribbed Belt	46.5	75	4.35
910003A	Bluebird, Ford, Freightliner, International/Navistar, Kenworth, Peterbilt, Sterling, Thomas Built, Western Star	Steel	10-Rib V-Ribbed Belt	40	75	4.2
910014A	International/Navistar	Steel	10-Rib V-Ribbed Belt	40	75	4.1
910513A	Bluebird, Ford, Freightliner, Kenworth, Sterling, Thomas Built	Steel	10-Rib V-Ribbed Belt	40	75	4.3
910018A	Amtran, Bluebird, Freightliner, International/Navistar, Peterbilt	Steel	10-Rib V-Ribbed Belt	40	75	4.2

### Fleet Runner Serpentine Belts (RBR)

Part Number	Application
K081223HD	03 Ford 7.3
K080594HO	Freightliner/Cummins
K081124HO	IHC T444
K090609HO	Freightliner/Mercedes
K080726HO	Ford/Cummins
K060470HO	IHC DT466
K080685HO	IHC 530
K080926HO	Freightliner FLD
K050350HO	Freightliner FLD
K080730HD	Freightliner/Cummins
K080893HD	IHC T444
K060425HD	Freightliner/Cummins
K080560HO	Freightliner/Cummins
K060435HD	IHC Cummins
K080605HD	IHC Cummins
K080830HD	Freightliner/Mercedes
K060685HO	Freightliner/Cummins
K050345HD	Freightliner/Cummins
K080694HD	Freightliner/Cummins



### Fleet Runner V Belts (RBR)

Part Number	Application
9510HD	FORD 7.3
9650HO	FREIGHTLINER/CUMMINS
9590HO	IHC T444
9640HD	FREIGHTLINER/MERCEDES
9451HD	FORD/CUMMINS
9530HO	IHC DT466
9447HD	IHC 530
9463HD	FREIGHTLINER FLD
9341HD	FREIGHTLINER FLD
9610HD	FREIGHTLINER/CUMMINS
9500HD	IHC T444
9580HD	FREIGHTLINER/CUMMINS



### Antifreeze (ANT)

Part Number	Brand	Description	Size
00319	Fleet Charge 50/50 Antifreeze	SCA precharged 50/50 Antifreeze	Gallon
00321	Fleet Charge 50/50 Antifreeze	SCA precharged 50/50 Antifreeze	55 Gallon
AFC10000	Prestone	Command Heavy Duty Extended Service Interval Antifreeze	Gallon
00773	Fleet Charge Antifreeze	SCA precharged Antifreeze	55 Gallon
00358	Final Charge 50/50 Antifreeze	50/50 Antifreeze	Gallon
00054	Final Charge 50/50 Antifreeze	50/50 Antifreeze	55 Gallon
00836	Final Charge Antifreeze	Antifreeze	Gallon
00033	Final Charge Antifreeze	Antifreeze	55 Gallon



# Water Pumps & Cooling System

## Stant Thermostats (CTH)

Like most people, you probably think all thermostats are alike. But Stant® brand thermostats are different. They're the thermostats you ask for by name. And the superiority of Stant thermostats shows in the way they consistently out perform the competition. They are, quite simply, the best engineered thermostats in the world. Here's why.

The heart of the Stant brand thermostat is the ELAT® Thermostat heat motor. The unique properties of the heat motor result in a consistent and precise response to the cooling system's needs. This is achieved through the use of a precisely formulated, thermally expansive wax fill that is calibrated to operate within OEM requirements.



The Stant heat motor is powered by a precisely formulated thermal responsive wax pellet in a heat conducting copper cup equipped with a stainless steel piston inside an elastomeric boot. The exact length of the stainless steel piston assures the prompt and precise operation of the thermostat valve.

Each manufacturing process is rigidly controlled with world-class quality controls. Then a 100% calibration is conducted for each heat motor to guarantee quality and performance.

Finally, the heat motor is placed in a stainless steel assembly consisting of a valve, flange, bridge and spring. The completed assembly provides a securely sealed, heat responsive valve that keeps engine temperatures within OEM specifications.

Part Number	Opening tempertaure	Make
14899	190°	BLUEBIRD/ FORD/ INT/NAVISTAR
14948	180°	BLUEBIRD/GMC/ CHEVROLET
14538	180°	VARIOUS HD
14539	190°	VARIOUS HD
14058	180°	FREIGHTLINER/PETERBILT/FORD/KENWORTH
15008	180°	CUMMINS ISX & ISM



# Engine Related Products



## Quality Policy Statement

Five Star Manufacturing believes that quality is a basic requirement in the design, manufacture, and delivery of our products and services. Our quality policy is Total Customer Satisfaction in the delivery of products and services to consistently meet evolving customer expectations. We shall continuously pursue quality improvement programs that enable each employee to do his or her job right the first time and each time.

## Heaters (HTR)

### 78037 INTERIOR HEATERS

#### AUTOMOTIVE INTERIOR HEATER - 120 VOLTS



- Pre-heated interior comfort
- 900 Watts of power (120V)
- Slim, compact, lightweight design
- 900 Watt heat setting
- Thermostatically controlled
- Ergonomically designed to blend into any car or truck interior
- Easily installed, mounting bracket included

Part Number	Volts	Watts
78037	120 V	900

### 78050 VINYL COVERED / ACID RESISTANT / PLIABLE

#### BATTERY THERMAL WRAP



- 3 Models to fit most battery sizes
- Fast, easy installation - simply wraps around battery to heat and insulate
- Oil and acid resistant vinyl cover

Part No.	Length	Volts	Watts	Battery Size
78050	36"	120 V	80	SERIES 24, 24F, 27, 27F, 74
78051	28"	120 V	60	SERIES 26, 26R, 70
78515	72"	120 V	160	TRUCK BATTERIES

### 80014

#### 12 VOLT INTERIOR HEATERS



- Provides heat to interior of car, boat, campers or RV's
- 150 Watts, 12 Volt
- Plugs into the cigarette lighter outlet
- Mounts on dash or under console

Part Number	Volts	Watts
80014	12 V	150



## HIGH-PERFORMANCE ENGINE HEATER.

### LOWER RADIATOR HOSE HEATER



**CAUTION:**  
Not recommended for any engine, American or Foreign, unless specifically listed.

Part Number	Hose Dia.	Watts
78161	1.25"	600
78162	1.25"	600
78163	1.25"	600
78164	2"	600

## CIRCULATING TANK HEATER

### MODEL SPECIFICATIONS



- Made of die cast aluminum
- Corrosion and impact resistant
- Recyclable
- One piece molding
- Eliminates possibility of leaks
- Tapered outlet design, pushes coolant more efficiently than other styles
- Thermostatically controlled 135° - 175°
- 5' HPN 105° C cord
- Uses versatile strap type mounting

Part No.	Volts	Watts	Amps	Capacity
78237	120 V	1000	8.3	16 - 25 qts
78238	120 V	1500	12.5	26 - 40 qts.
79886	120 V	850	7.0	Up to 18 qts.
79889	120 V	2000	16.6	41 - 60 qts.*

\*with 15 amp plug

# Engine Related Products

## Heaters (HTR)

### 80013

#### CERAMIC INTERIOR HEATERS



- Provides heat to interior of car, boat, campers or RV's
- 300 Watts, 12 Volt
- 7" x 7" x 2.5"

Part Number	Volts	Watts
80013	12 V	300

### 79400

#### EXTERNAL IN-LINE HEATER



- No need to drain coolant!
- Equipped with automatic thermostats to give maximum protection and controlled heat.

Part Number	Volts	Watts
79400	120 V	850

### 78344 78345 79880 HANDI-HEAT MAGNETIC HEATER

#### MAGNETIC HEATERS



200 watts, Magnetic utility heater provides heat when and where you need it. Built in thermostat maintains optimum temperature.

Part Number	Heating Area	Heat Output	Power Req.
78344	Approx. 8 sq. inches	300° - 400° F	110 Volt AC
78345	Approx. 8 sq. inches	300° - 400° F	110 Volt AC

#### MAGNUM MAGNETIC HEATER



The Magnum is an upscale version of the Handi-Heat, featuring two powerful magnets and expanded heating surface. It can be used in many of the same applications as Handi-Heat, plus its larger size makes it ideal for use on trucks, diesels and farm machinery. 300 watts.

Part Number	Heating Area	Heat Output	Power Req.
79880	Approx. 20 sq. inches	300° - 400° F	110 Volt AC

### 79502 79503 79504 79505

#### KAT'S UNIVERSAL HOT PAD HEATERS



- For Cars, Truck, Tractors
- Use as Oil Pan heater
- Use as Transmission Pan heater
- Easy to install
- Silicone Covered Acid Resistant / Pliable

Part No.	Dimensions	Volts	Watts
79502	4" x 5"	120 V	100
79503	4" x 5"	120 V	150
79504	4" x 5"	120 V	250
79505	5 1/2" x 8 1/2"	120 V	500

### 78064 79786 REPLACEMENT CORDS



78064



79786

Part No.	Length	Volts	Wire
78064	6'	120 V	Wire: 16/3
79786	5'	120 V	Wire: 18/3

### 78331

#### DIPSTICK OIL HEATER



- Fits most oil stick openings of 1/4" or more.
- Stainless Steel tubing is flexible making it possible to be installed in most engines. This flexible feature allows greater coverage.
- Economical to operate.
- Heats oil and air in crankcase.
- Element length is 23".

Part Number	Volts	Watts
78331	120 V	90

### 78132 Works on all competitors starting systems.

#### FAST FLASH FUEL CYLINDERS



- 200 Starts Approximately.
- Ethyl Ether at 99% Purity or Better.
- Non-Clogging Formula.
- Cylinders Rated at 1000 lb Test Burst Pressure.
- Cylinder Relief Valve Pressure up to 650 PSI Max.
- Fuel cylinders are pressured from 140 to 170 PSI at 70° F.

Part No.	Size	Description
78132	1"	Single Flash Fuel Cylinder 18 oz

### Freeze Plug Heaters (HTR)

Image	Part Number	Hose Diameter	Volts	Watts
	78075	—	—	—
	78216	1.25"	120 V	1250
	78260	1.5"	120 V	600
	78263	1.625"	120 V	600
	78265	1.75"	120 V	600
	78292			
	78297	1.5"	120 V	600
	78300	1.625"	120 V	600
	78303	1.5"	120 V	400
	78309	.75" NPT	120 V	400
	78413	1" NPT	120 V	1500
	78414	1.75"	120 V	1000
	79100	.75" NPT	120 V	750
	79104	2.25"	120 V	750
	79678	1.5"	120 V	600
	79713	.75" NPT	120 V	1000

# Accessories

- T Siphon Spray Blow Gun Kit
- 1/4" NPT Air Inlet..
- Complete with 8' of tubing and vinyl storage pouch.
- SCFM 13.7 @ 100 PSI.



MFG	PN	Description
MIL	S157	Siphon Spray Blow Gun Kit

MFG	PN	Description
CPR	30053HMC	Deluxe Heavy-Duty Truck Fan, 24 Volt

- Natural fibers
- Metal hanger loop allows for easy storage
- Durable double-stitch cord binding
- 10 inch
- Use in auto, home and more



MFG	PN	Description
CND	93028	10" Whisk Broom

- The wash brush has an extra-long handle for wheels and car bodies, super-soft bristles and an easy-grip nonslip rubber handle.
- Overmolded handle for comfortable grip



MFG	PN	Description
CND	AC193	20" Long Handle Wash Brush

- This tire brush contours to the tire shape and can attach to any standard pole. The handle is both comfortable and functional.
- Soft rubber handle offers comfort and functionality



MFG	PN	Description
CND	AC204	Contour Tire Brush

- 48" pole extension is perfect for washing SUVs and trucks
- Detachable pole allows for a unique hand car wash option



MFG	PN	Description
CND	AC271	Microfiber Wash Mop

- This dip brush has an 8" bi-level wash brush head and a 48" all-metal pole. This super-soft brush cleans at any angle.
- Metal pole for enhanced strength



MFG	PN	Description
CND	AC195	8" Bi-level Wash Brush

- This Autocraft flow-thru wash brush has a 10" quad brush head with a 67" telescoping extension pole. The brush head has super-soft feather tip bristles for gentle cleaning. The easy-grip handle allows for increased control and comfort. The brush has a variable water flow feature with an easy-to-use thumb switch.
- Locking head to reduce spin



MFG	PN	Description
CND	AC196	Deluxe Flow-Thru Wash Brush

MFG	PN	Description
LAI	1125	Stiff Wash Brush Head



MFG	PN	Description
CPE	885	Squeegee Bucket

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