

Issued: 2/1/2010
Catalog #: CQ-10003 HHG
Mfg Code: HHG



Fleet Solutions - Steering Pump Application Guide



2010

17 – Power Steering Pumps

Table of Contents	17-1
Part Number Index	17-3
General Information	
Foreword	17-4
Warranty Information	17-5
Application Guide	17-6
Hobourn/Eaton	
Eaton 600 Series – New	17-11
Eaton HE Series – New	17-12
Eaton B-Pump – Remanufactured	
Spline Shaft	17-13
Threaded Shaft	17-14
Pulley/Belt Driven	17-15
Eaton BB-Pump – New/Remanufactured	
Spline Shaft	17-16
Gear Driven with Straight Shaft	17-17
Pulley Driven with Straight Shaft	17-18
Eaton U-Pump – Remanufactured	17-19
LUK	
LUK 73 Series – New	17-20
LUK 93 Series – New	17-21
Parker Hannifin	
H-39 Series Pump – Remanufactured	17-22
H-90 Series Pump – Remanufactured	17-23
Saginaw	
Saginaw Steering Pumps – New/Remanufactured	17-24
TRW	
TRW Dodge/Early Ford – Remanufactured	17-25
TRW EV Series – Remanufactured	17-26
TRW PS Series – Remanufactured	17-27
Vickers	
V-10F & NF Series Pump – Remanufactured	17-28
V-20F Series Pump – Remanufactured	17-29
VTM-42 Series Pump – Remanufactured	17-31
Zahnrdfabrik Fridrichshafen (ZF)	
ZF Gear Driven – Remanufactured	17-32
ZF Spline Driven – Remanufactured	17-33
Steering Pump Kits	

17-POWER STEERING PUMPS

Table of Contents

Seal Kits	17-34
Miscellaneous Kits	17-35
Maintenance	
Troubleshooting	17-36

Part Number Index

17-POWER STEERING PUMPS

Part Number	Type	Page #	Part Number	Type	Page #	Part Number	Type	Page #	Part Number	Type	Page #
R1010	S	17-35	RP40207X	S	17-14						
R1549	S	17-35	RP40301X	S	17-15						
R3285	S	17-34	RP40302X	S	17-15						
R3293	S	17-34	RP40303X	S	17-13						
R3294	S	17-34	RP50101X	S	17-28						
R3307	S	17-34	RP50102X	S	17-28						
R3308	S	17-34	RP50103X	S	17-28						
R3309	S	17-34	RP50105X	S	17-28						
RP10401X	S	17-25	RP50107X	S	17-28						
RP10501X	S	17-25	RP60101X	S	17-29						
RP11001X	S	17-32	RP60103X	S	17-29						
RP11004X	S	17-33	RP60104X	S	17-29						
RP11005X	S	17-33	RP60105X	S	17-29						
RP11006X	S	17-33	RP60106X	S	17-29						
RP11007X	S	17-33	RP60107X	S	17-29						
RP11008X	S	17-33	RP60108X	S	17-29						
RP11009X	S	17-33	RP60109X	S	17-29						
RP11010X	S	17-32	RP60110X	S	17-29						
RP11011X	S	17-32	RP60111X	S	17-29						
RP11012X	S	17-33	RP60112X	S	17-29						
RP11013X	S	17-33	RP60113X	S	17-29						
RP11014X	S	17-32	RP60114X	S	17-29						
RP11015X	S	17-33	RP60115X	S	17-29						
RP11016X	S	17-32	RP60116X	S	17-29						
RP11018X	S	17-33	RP60118X	S	17-29						
RP11019X	S	17-32	RP60119X	S	17-29						
RP12101	S	17-20	RP60120X	S	17-29						
RP12102	S	17-20	RP60121X	S	17-29						
RP12103	S	17-20	RP60122X	S	17-29						
RP12104	S	17-20	RP60133X	S	17-29						
RP12106	S	17-20	RP60134X	S	17-29						
RP12110	S	17-20	RP60136X	S	17-29						
RP12111	S	17-20	RP60137X	S	17-29						
RP12115	S	17-20	RP70101X	S	17-16						
RP12120	S	17-21	RP70102X	S	17-16						
RP13001	S	17-20	RP70103X	S	17-16						
RP13002	S	17-20	RP70105	S	17-17						
RP13003	S	17-20	RP70105X	S	17-17						
RP145X	S	17-24	RP70106	S	17-16						
RP20201	S	17-24	RP70106X	S	17-16						
RP20201X	S	17-24	RP70107X	S	17-16						
RP20202	S	17-24	RP70108X	S	17-16						
RP20202X	S	17-24	RP70109X	S	17-16						
RP20203X	S	17-24	RP70110X	S	17-16						
RP221601X	S	17-27	RP70111X	S	17-16						
RP221602X	S	17-27	RP70112X	S	17-16						
RP221603X	S	17-27	RP70113X	S	17-18						
RP221604X	S	17-27	RP70201X	S	17-17						
RP221605X	S	17-26	RP70202X	S	17-17						
RP221606X	S	17-26	RP70203X	S	17-17						
RP221607X	S	17-26	RP70204X	S	17-17						
RP221608X	S	17-27	RP70205X	S	17-17						
RP221609X	S	17-27	RP70301X	S	17-18						
RP221611X	S	17-27	RP70302X	S	17-16						
RP221612X	S	17-27	RP70601	S	17-11						
RP221613X	S	17-27	RP70801	S	17-12						
RP221614X	S	17-26	RP80101X	S	17-22						
RP221615AX	S	17-27	RP80102X	S	17-22						
RP221615X	S	17-27	RP80301X	S	17-23						
RP221616X	S	17-27	RP80302X	S	17-23						
RP221617X	S	17-27	RP80304X	S	17-23						
RP221618X	S	17-27	RP8747X	S	17-24						
RP30301X	S	17-19	RP90102X	S	17-31						
RP30302X	S	17-19	RP90105X	S	17-31						
RP30303X	S	17-19	RP90106X	S	17-31						
RP30304X	S	17-19									
RP30305X	S	17-19									
RP30306X	S	17-19									
RP30307X	S	17-19									
RP40101X	S	17-13									
RP40102X	S	17-13									
RP40103X	S	17-13									
RP40104X	S	17-13									
RP40105X	S	17-13									
RP40106X	S	17-13									
RP40122X	S	17-13									
RP40201X	S	17-14									
RP40203X	S	17-14									
RP40204X	S	17-14									
RP40205X	S	17-14									
RP40206X	S	17-14									

Type "O" = OEM P/N, Type "S" = Service P/N

If OEM part # is not found on page listed, refer to the MCR for applicable cross reference.

PURPOSE OF THIS SECTION

This section is designed as a reference for Haldex Commercial Vehicle Systems new and remanufactured air brake system components and accessories, sold under the Haldex and Midland product names. Products described include all pertinent information needed to replace an OEM installed component or to help design an original installation. If there is a service number for a given part, it is noted in the product number table.

DESIGN FLEXIBILITY

The products presented in this section are described by function and usage. Technical data and mounting configurations are also provided. Throughout this section, reference is made to numerous specific OEM applications. This section is not, however, intended to be a mutually exclusive listing of all part numbers and designs available. Should the need for a design not presented occur, contact your Haldex Commercial Vehicle Systems sales representative for additional information.

WARRANTY INFORMATION

Proper service and repair are important to the safe, reliable operation of any motor vehicle. To prevent personal injury and/or vehicle damage, careful and cautious service procedures recommended by the vehicle manufacturer should be followed by anyone servicing a motor vehicle. For details on warranty of Haldex Commercial Vehicle air brake system components and accessories, refer to L20221 Aftermarket Warranty Policy. For warranty returns, use L90005 Warranty Adjustment Form. To obtain further information, visit the www.haldex.com website, select **North America/English** in drop down box then search for **Warranty**.

ORDERING PROCEDURE

Most customers can place electronic orders on the www.haldex.com website by obtaining a username and password or by using EDI. For additional information about electronic orders or to place an order by phone or fax, contact Customer Service in U.S. or Canada at numbers listed below:

U.S. Customer Service:

Phone: 800-643-2374
Fax: 800-533-1941
Mail: Commercial Vehicle Systems
Haldex Brake Products Corporation
Attn: Customer Service Department
10930 N. Pomona Ave.
Kansas City, MO 64153

Canada Customer Service:

Phone: 800-267-9247
Fax: 519-621-3924
Mail: Commercial Vehicle Systems
Haldex Limited
Canadian Distribution Centre
Attn: Customer Service Department
500 Pinebush Road, Unit 1
Cambridge, Ontario N1T 0A5

IMPORTANT NOTICE

The data listed herein is correct to the best of Commercial Vehicle Systems knowledge and belief, having been compiled from reliable and official sources of information. However, COMMERCIAL VEHICLE SYSTEMS CANNOT ASSUME ANY RESPONSIBILITY for possible error or misapplication of the product. Final determination of the suitability of the products for the use contemplated by the Buyer is the sole responsibility of the Buyer. Commercial Vehicle Systems shall have no responsibility in connection with this suitability. It is not our intention to imply that any of the components in this catalog in connection with an engine make or model are made by any engine manufacturer.

Copyright 2010
Commercial Vehicle Systems
Haldex Brake Products Corporation
10930 N. Pomona Ave.
Kansas City, MO 64153

All rights reserved.

Materials may only be reproduced with written permission of Commercial Vehicle Systems.

Heavy duty power steering pumps have a twelve (12) month, 3,600 hour (whichever comes first) warranty. For further details, refer to L20221 Aftermarket Warranty Policy. For warranty return, use L90005 Warranty Adjustment Form.

SPECIAL NOTE

Proper service and repair is important to the safe reliable operation of all motor vehicles. Careful and cautious service procedures recommended by the manufacturers should be taken by anyone servicing a motor vehicle to minimize the risk of personal injury and vehicle damage. All information, illustrations, specifications and schematics contained in this section are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

GENERAL INFORMATION

What you need to know to identify pumps:

1. Year of Truck *
2. Make of Truck *
3. Model Type *
4. Type of Engine *
5. Front Axle Weight *
6. Name Brand on Pump Example: Vickers
7. Numbers on Pump Example: V10F1P6P38C6F20

*1980 Peterbilt conventional (359 model), Cummins engine & 12,000 lb. front axle.

NOTE: Several different engines or axle weights can fall within same year and type of truck.

To determine pump rotation, first look for OEM stamp number on housing. If pump is counterclockwise rotation, the OEM stamp number will generally be followed by CCW. If no number or CCW is found, generally rotation can be determined by this: All inline DDC's are generally clock-wise rotation. On V6 & V8, if pump is mounted on right hand side of engine, it will generally be clockwise rotation. If mounted on left side, it will generally be counter-clockwise rotation.

Saginaw, Eaton U, B and BB pumps are supplied with the necessary oil rings for servicing the reservoir.

- * A. Check all Vickers pumps with stamped numbers and letters located on back or side of pumps. (Example: V-10F1P6P38C6F20 or VTM42607515N0R114).
- * B. Some V-20F series pumps can come with a straight keyed shaft (#1) or can have a keyed shaft with threads on end. The keyed shaft with threads on end is used for a pulley. The length of the shaft will need to be measured.
- * C. This shaft can be used for direct accessory drive or pulley/belt drive.

NOTE: Vickers pumps come with all gaskets necessary for mounting to engines.

VEHICLE MODEL & YEAR	ENGINE MAKE & MODEL	OEM #	MFG. #	MIDLAND SERVICE NUMBER
BLUEBIRD –	Eaton BB Pump	290-1311117	ER17273-16	RP70104X
CHEVROLET/GMC 40 thru 80 Series (Medium & Heavy Duty) 1960-88 1960-88 1960 & UP	 Various Cummins, Gas & DDC engines with H/D Saginaw Pump, Industry # 143 Various Cummins, Gas & DDC engines with H/D Saginaw Pump, Industry # 143A Various Cummins & gas engines w/bushing type Saginaw Pump, Industry # 30U	 7812808 5692687 5688074	 488787C91 7840122 –	 RP20201X RP20202X RP20203X
CHRYSLER/DODGE 400-700 Series ALL Front Axle Weight	 C700-1000 & H/D Motor Homes Heavy duty motor home with H/D Saginaw Pump, Industry # 143A	 – 5692687	 38-58 7840122	 RP10401X RP20202X
CUMMINS –	Eaton BB Pump	3913991	ER17273-18	RP70106X
FORD: Listed by Models B & F 1983-86, ALL Front Axle Weights 1980-84, 6m thru 9m Front Axle Weight Feb. 1980-84, 6m thru 9m Front Axle Weight 1980-86 1980-86 1980-86	 All B & F models w/8 cylinder Caterpillar, Industry # 500LV B & F 600-700 w/370 & 429 gas, Industry # 500LV B & F 6000-7000 w/DDC engine, Industry # 500LV B & F 6000 & 7500 w/8 cylinder Caterpillar, Industry # 100 All B & F models w/8 cylinder gas, Industry # 243 All B & F models w/6 cylinder gas, Industry # 243A	 D4HA3K514CA D4HA3K514CA D4HA3K514CA – D7HT3A691BA C7TZ3A674R	 – – – 38-58 ER15255-1 ER11095-2	 RP40101X RP40101X RP40101X RP10401X RP30301X RP30302X
FORD: Listed by Models C & CT 1958-77, ALL Front Axle Weights 1958-77, ALL Front Axle Weights 1973-76	 All C & CT models w/8 cylinder gas, Industry # 243A All C & CT models w/6 cylinder gas, Industry # 243A C & CT 6000/8000 w/TRW pump, Industry # 100	 C7TZ3A674R C7TZ3A674R –	 ER11095-2 ER11095-2 38-58	 RP30302X RP30302X RP10401X
FORD: Listed by Models CL & CLT 1978-86, ALL Front Axle Weights 1978-86, ALL Front Axle Weights 1978-86, ALL Front Axle Weights 1978-86, ALL Front Axle Weights	 All CL & CLT models w/Caterpillar Industry # 700LV All CL & CLT models w/Cummins Industry # 700LV All CL & CLT models w/DDC & CW rotation pump w/3 1/2" shaft Industry # 800LV CCW rotation pump w/3 1/2" shaft & 8 cylinder Caterpillar engines Industry # 800RLV	 D7HA1514 478782C91 478779C91 D9HZ3A674B	 ER15867-1 ER15467-1 ER16335-1 ER16323-1	 RP40102X RP40104X RP40201X RP40203X

VEHICLE MODEL & YEAR	ENGINE MAKE & MODEL	OEM #	MFG. #	MIDLAND SERVICE NUMBER
FORD: Listed by Models H & HT				
1958-77, ALL Front Axle Weights	All models w/8 cylinder gas Industry # 243A	C7TZ3A674R	ER11095-2	RP30302X
1958-77, ALL Front Axle Weights	All models w/6 cylinder gas Industry # 243	7HT3A691BA	ER15255-1	RP30301X
FORD: Listed by Models L, LN, LNT, LT & LTS				
1973-86, 7m, 9m & 12m Front Axle Weights	All models w/8 cylinder Caterpillar Industry # 400LV	493115C91	ER15183-1	RP40301X
1973-86, 16m, 18m & 20m Front Axle Weights	All models w/8 cylinder Caterpillar Industry # 400HV	D0HZ3A674A	ER15323-1	RP40302X
1973-86, 7m, 9m & 12m Front Axle Weights	All models w/6 cyl. 3406 Caterpillar Industry # 700LV	D7HA1514	ER15867-1	RP40102X
1973-86, 16m, 18m & 20m Front Axle Weights	All models w/6 cyl. 3406 Caterpillar Industry # 700HV	-	ER16640-1	RP40103X
1973-86, 9m & 12m Front Axle Weights	All models w/6 cylinder Cummins NTC & formula, Industry # 700LV	478782C91	ER15467-1	RP40104X
1973-86, 16m, 18m & 20m Front Axle Weights	All models w/6 cylinder, Cummins NTC & formula, Industry # 700HV	-	ER15422-4	RP40105X
1973-86, 9m & 12m Front Axle Weights	All models w/8 cylinder DDC & clockwise rotation pumps, Ind. # 800LV	478779C91	ER16335-1	RP40201X
1973-86, 9m & 12m Front Axle Weights	All models w/8 cylinder DDC & clockwise rotation pumps, Industry # 800XLV	-	-	RP40205X
1973-86, 16m, 18m & 20m Front Axle Weights	All models w/8 cylinder DDC & clockwise rotation pumps, Industry # 800HV	-	ER15528-1	-
1973-86, 16m, 18m & 20m Front Axle Weights	All models w/8 cylinder DDC & clockwise rotation pumps, Industry # 800XHV	-	-	RP40206X
1973-86, 9m & 12m Front Axle Weights	All models w/8 cyl. DDC & counter-clockwise rotation pumps, Industry # 800RLV	D9HZ3A674B	ER16323-1	RP40203X
1973-86, 16m, 18m & 20m Front Axle Weights	All models w/8 cyl. DDC & counter-clockwise rotation pumps, Industry # 800RHV	-	ER16278-1	RP40204X
1980-86, 7m, 9m & 12m Front Axle Weights	All models w/8 cyl. gas except LN600/700 & 1980-LN800 w/AC, Ind. # 400LV	493115C91	ER15183-1	RP40301X
1980-86, 16m, 18m & 20m Front Axle Weights	All models w/8 cyl. gas except LN600/700 & 1980-LN800 w/AC, Industry # 400HV	D0HZ3A674A	ER15323-1	RP40302X
1973-79, 9m & 12m Front Axle Weights	L, LN, LNT, LT 9000 w/8 cyl. Cummins, engines, Industry # 700LV	478782C91	ER15467-1	RP40104X
1973-79, 16m, 18m & 20m Front Axle Weights	L, LN, LNT, LT 9000 w/8 cyl. Cummins engines, Industry # 700HV	-	ER15422-4	RP40105X
1973-79, 7m, 9m & 12m Front Axle Weights	All 800, 880, 900 models w/8 cylinder gas except 1979-800 w/AC, Ind. # 400LV	493115C91	ER15183-1	RP40301X
1973-79, 16m, 18m & 20m Front Axle Weights	All 800, 880, 900 models w/8 cylinder gas except 1979-800 w/AC, Ind. # 400HV	D0HZ3A674A	ER15323-1	RP40302X
1976-78, 9m & 12m Front Axle Weights	LTS 9000 w/8 cylinder Cummins, Industry # 400LV	493115C91	ER15183-1	RP40301X
1976-78, 16m, 18m & 20m Front Axle Weights	LTS 9000 w/8 cylinder Cummins, Industry # 400HV	D0HZ3A674A	ER15323-1	RP40302X
1973-77, ALL except 9m Front Axle Weights	LN 600/750 w/8 cylinder Cat. & TRW pump, Industry # 100	-	38-58	RP10401X
1958-77, ALL Front Axle Weights	LN 500-800 w/8 cylinder gas, Industry # 243A	C7T23A674R	ER11095-2	RP30302X
1958-77, ALL Front Axle Weights	LN 500-800 w/6 cylinder gas, Industry # 243	D7HT3A691BA	ER15255-1	RP30301X

17-POWER STEERING PUMPS

Application Guide

VEHICLE MODEL & YEAR	ENGINE MAKE & MODEL	OEM #	MFG. #	MIDLAND SERVICE NUMBER
FORD: Listed by Models N & NT				
1958-77, ALL Front Axle Weights	All models except w/8 cylinder, Industry # 243A	C7T23A674R	ER11095-2	RP30302X
1958-77, ALL Front Axle Weights	All models except w/6 cylinder, Industry # 243	D7HT3A691BA	ER15255-1	RP30301X
FORD: Listed by Model T				
1967-69, ALL Front Axle Weights	T800 thru 950 w/8 cylinder gas, Industry # 243A	C7T23A674R	ER11095-2	RP30302X
1967-69, ALL Front Axle Weights	T800 thru 950 w/6 cylinder gas, Industry # 243	D7HT3A691BA	ER15255-1	RP30301X
FORD: Listed by Models W & WT				
1973-77, ALL Front Axle Weights	W & WT 9000 w/6 cylinder diesel except 6 cylinder DDC & w/8 cylinder Cummins, Industry # 400LV	493115C91	ER15183-1	RP40301X
1973-77, ALL Front Axle Weights	W & WT 9000 w/6 cylinder diesel except 6 cylinder DDC & w/8 cylinder Cummins, Industry # 700LV	478782C91	ER15467-1	RP40104X
1975-77, ALL Front Axle Weights	W & WT 9000 w/6 & 8 cylinder DDC & CW rotation pump, Industry # 800LV	478779C91	ER16335-1	RP40201X
1975-77, ALL Front Axle Weights	W & WT 9000 w/6 & 8 cylinder DDC & CW rotation pump, Industry # 800XLV	-	-	RP40205X
FORD/DODGE				
-	Hex Shaft Pump Industry # 100A	C8TA3A691F	-	RP10501X
FORD				
-	Eaton U Pump Industry # 243X	D9HT3A696BB	ER15860-1	RP30303X
-	Eaton U Pump Industry # 243AX		ER15342-1	RP30304X
-	Eaton BB Pump	E8HT3A674EA	ER17184-1	RP70108X
-	Eaton BB Pump	E8HT3A674CA	ER17229-3	RP70202X
-	ZF Spline Pump	F0H23A674D	7674955343	RP11009X
FORD/NAVISTAR				
-	Detroit, Eaton B Pump, Threaded Shaft, Industry # 800XHV	-	-	RP40206X
FLEXIBLE				
-	Eaton BB Pump	97-7774-00001	ER17273-52	RP70107X
FREIGHTLINER				
ALL	Various Cummins engines w/Model B Eaton pumps, Industry # 700LV	478782C91	ER15467-1	RP40104X
-	Eaton BB Pump	14-12051-000	ER17273-37	RP70102X
-	Eaton BB Pump	14-12050-000	ER17273-38	RP70103X
-	Eaton BB Pump	14-12049-000	ER17274-9	RP70105X
-	LUK 73 Pump	2108831	LF73RPUB38	RP12104X
KENWORTH				
ALL	Luk 73 Pump	2106218	LF73RUUB38	RP12101X

VEHICLE MODEL & YEAR	ENGINE MAKE & MODEL	OEM #	MFG. #	MIDLAND SERVICE NUMBER
MACK				
–	LUK 73 Pump	2108831	LF73RPUB38	RP12103X
ALL, 9m & 12m Front Axle Weights	Various Mack engines w/Model B Eaton pump, Industry # 500LV	D4HA3K514CA	–	RP40101X
ALL, 16m, 18m & 20m Front Axle Weights	Various Mack engines w/Model B Eaton pump, Industry # 500HV	–	ER16280–1	RP40303X
–	Vickers V–10F Pump	–	V10F1P7P38D5F20	RP50102X
NAVISTAR INTERNATIONAL FLEETSTAR				
ALL	Various gas & diesel engines w/Model U Eaton pumps, Industry # 243IH	255801C91	ER15092–1	RP30305X
ALL	Various gas & diesel engines w/Model U Eaton pumps, Industry # 243IHX	–	ER12704–1	RP30306X
ALL	Various gas & diesel engines w/Model B Eaton pumps, Industry # 400LV	493115C91	ER15183–1	RP40301X
NAVISTAR INTERNATIONAL LOADSTAR				
ALL	Various gas & diesel engines w/Model U Eaton pumps, Industry # 243IH	255801C91	ER15092–1	RP30305X
ALL	Various gas & diesel engines w/Model U Eaton pumps, Industry # 243IHX	–	ER12704–1	RP30306X
ALL	Various gas & diesel engines w/Model B Eaton pumps, Industry # 400LV	493115C91	ER15183–1	RP40301X
NAVISTAR INTERNATIONAL S-SERIES 1600 thru 2155, 2200 thru 2600				
–	LUK 73 Pump	2106076	LF73LUUB38	RP12102X
ALL	Various Cummins engines w/Model B Eaton pumps, Industry # 700LV	478782C91	ER15467–1	RP40104X
ALL	Various Cummins engines w/Model B Eaton pumps, Industry # 700HV	–	ER15422–4	RP40105X
ALL	Various gas & diesel engines w/Model U Eaton pumps, Industry # 243IH	255801C91	ER15092–1	RP30305X
ALL	Various gas & diesel engines w/Model U Eaton pumps, Industry # 243IHX	–	ER12704–1	RP30306X
ALL	Various gas & diesel engines with H/D Saginaw pump, Industry # 143	7812808	488787C91	RP20201X
NAVISTAR INTERNATIONAL				
–	Eaton BB Pump	1675898C91	ER17270–10	RP70203X
–	Eaton BB Pump	1664377C91	ER16481–2	RP70301X
–	Eaton BB Pump	1664376C91	ER17225–2	RP70201X
–	Parker Hannifin H–39 Pump	5755855C91	H39BT2AA21540DS	RP80101X
–	Parker Hannifin H–49 Pump	472585C92	H49BT2AA17560DS	–
–	Parker Hannifin H–90 Pump	472586C91	H990CY2CA17560DS	RP80301X
–	Parker Hannifin H–90 Pump	472587C91	H90CY1CA17560DS	RP80302X
–	Vickers VT–73 Pump	–	VT732123120RVVB381	–
–	Vickers V–10NF Pump	575585C91	V10NF1S5T38C5G	RP50103X
PETERBILT				
–	Eaton BB Pump	10–02446	ER17276–3	RP70101X
–	Vickers V–10F Pump, CUM/CAT	503144–3	V10F1P6P38C6F20	RP50101X

17-POWER STEERING PUMPS

Application Guide

VEHICLE MODEL & YEAR	ENGINE MAKE & MODEL	OEM #	MFG. #	MIDLAND SERVICE NUMBER
TRUCK & BUS				
-	Vickers VTM-42 Pump	-	VTM-42505515	RP90102X
-	Vickers VTM-42 Pump	-	VTM-42504520	RP90105X
ALL TRUCK				
-	Vickers V-20F Pump, CUM/CAT	-	V20F1P6P38C6F20	RP60101X
-	Vickers V-20NF Pump, CUM/CAT	-	V20NF1D5T38C5C20	RP60102X
-	Vickers V-20NF Pump, DDC	-	V20NF4R9P1C6E11	RP60103X
-	Vickers V-20F Pump, CUM/CAT	422479C9T	V20F1P9P38C6G11	RP60104X
-	Vickers V-20NF Pump, CUM/CAT	-	V20NF1D6P38C6G11	RP60105X
-	Vickers V-20F Pump, CUM/CAT	-	V20F1P11P38D6G11	RP60110X
-	Vickers V-20F Pump, Cummins	-	V10F1P7P38C4H20LH	RP60112X
-	Vickers V-20F Pump, CUM/CAT	-	V20F1P8P38C4F11LH	RP60133X

Eaton 600 Series – New

Product Image Not Available

Specifications:

Approximate Weight 10 lbs.

SKU#	Product Description	Axle Weight	GPM	PSI	OEM #	MFG. #	Application
RP70601	New Eaton 600 Series Pump	12000 lbs.	6	2400	15735506	HE1200222	GM

Eaton HE Series – New

Product Image Not Available

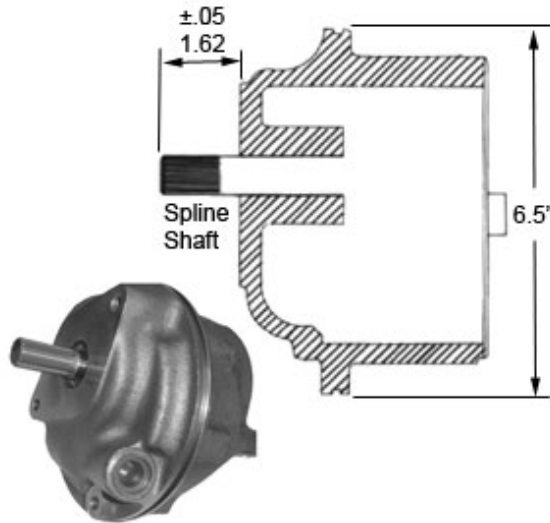
Specifications:

Approximate Weight 10 lbs.

SKU#	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

Eaton B-Pump – Remanufactured

Spline Shaft



Features:

- Supplied with the necessary oil rings for servicing the reservoir.

Specifications:

Approximate Weight 20 lbs.

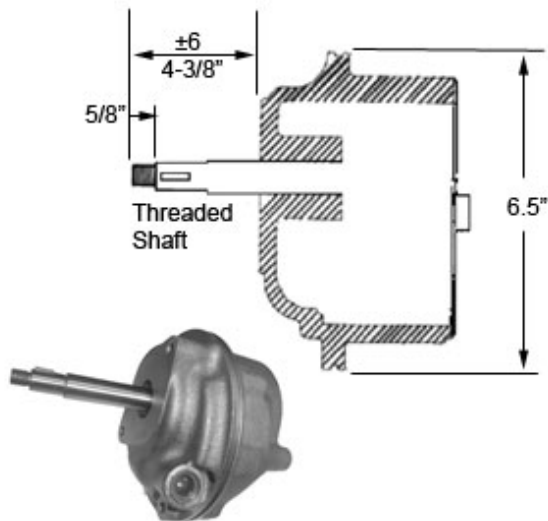
Notes:

- 1) Seal Kit use part number **R3307**.

SKU#	Product Description	Axle Weight	Shaft Length	Rotation	GPM	PSI	OEM #	MFG. #	Truck/Engine Application	Core Group
RP40101X	Remanufactured Eaton B-Pump, Spline Shaft	12000 lbs.	1-5/8"	CW	4.3	1750	D4HA3K514CA	–	Mack/Mack Engine	PS4001
RP40102X	Remanufactured Eaton B-Pump, Spline Shaft	12000 lbs.	2-1/2"	CW	4.3	1750	D7HA1514	ER15867-1	Ford, IHC/Cat Engine	PS4001
RP40103X	Remanufactured Eaton B-Pump, Spline Shaft	16000 lbs.	2-1/2"	CW	7.8	1750	–	ER16640-1	Ford, IHC/Cat Engine	PS4001
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
RP40105X	Remanufactured Eaton B-Pump, Spline Shaft	16000 lbs.	3-1/4"	CW	7.5	2000	–	ER15422-4	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
RP40122X	Remanufactured Eaton B-Pump, Spline Shaft	12000 lbs.	2-1/2"	CCW	4.3	1750	D7HA1514	ER15867-1	Ford, IHC/ Cat Engine	PS4001
RP40303X	Remanufactured Eaton B-Pump, Spline Shaft	16000 lbs.	1-5/8"	CW	7.5	2000	–	ER16280-1	Ford, IHC/ Gas & Diesel Engine	PS4001

Eaton B-Pump – Remanufactured

Threaded Shaft



Features:

- Supplied with the necessary oil rings for servicing the reservoir.
- Threaded Shaft (nut and key).
- Pump bolts to flange which bolts to engine.

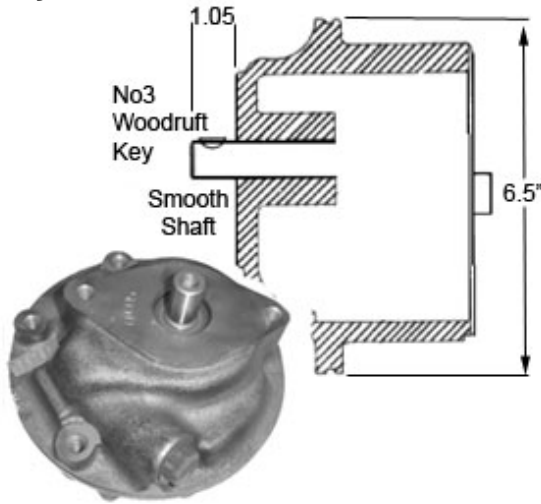
Notes:

- 1) Seal Kit use part number **R3307**.

SKU#	Product Description	Approx. Weight	Axle Weight	Shaft Length	Rotation	GPM	PSI	OEM#/MFG#	Truck/Engine Application	Core Group
RP40201X	Remanufactured Eaton B-Pump, Threaded Shaft	18 lbs.	12000 lbs.	3-1/2"	CW	4.5	1750	478779C91 ER16335-1	Ford/Detroit Engine	PS4001
RP40203X	Remanufactured Eaton B-Pump, Threaded Shaft	19 lbs.	12000 lbs.	3-1/2"	CCW	4.5	1750	D9H23A674B ER16323-1	Ford/Detroit Engine	PS4001
RP40204X	Remanufactured Eaton B-Pump, Threaded Shaft	10 lbs.	16000 lbs.	3-1/2"	CCW	7.5	2000	D0HZ3A674D ER16278-1	Ford/Detroit Engine	PS4001
RP40205X	Remanufactured Eaton B-Pump, Threaded Shaft	10 lbs.	12000 lbs.	4-3/8"	CW	4.5	1750	-/-	Various Truck/Detroit Engine	PS4001
RP40206X	Remanufactured Eaton B-Pump, Threaded Shaft	10 lbs.	16000 lbs.	4-3/8"	CW	7.5	2000	-/-	Various Truck/Detroit Engine	PS4001
RP40207X	Remanufactured Eaton B-Pump, Threaded Shaft	10 lbs.	12000 lbs.	4-3/8"	CCW	4.5	1750	-/-	Detroit	PS4001

Eaton B-Pump – Remanufactured

Pulley/Belt Driven



Features:

- Supplied with the necessary oil rings for servicing the reservoir.

Specifications:

Approximate Weight 20 lbs.

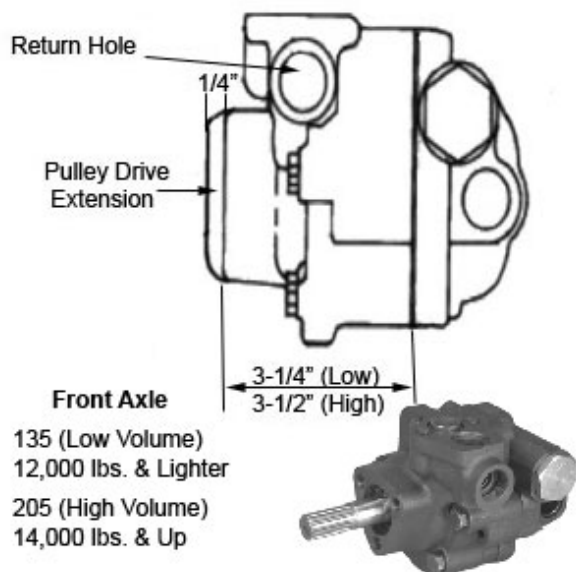
Notes:

- 1) Seal Kit use part number **R3307**.

SKU#	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	D0HZ3A674A 478782C91	ER15323-1	Ford, IHC/Gas & Diesel	PS4001

Eaton BB-Pump – New/Remanufactured

Spline Shaft



Features:

- Supplied with the necessary oil rings for servicing the reservoir.

Specifications:

Approximate Weight 15 lbs.

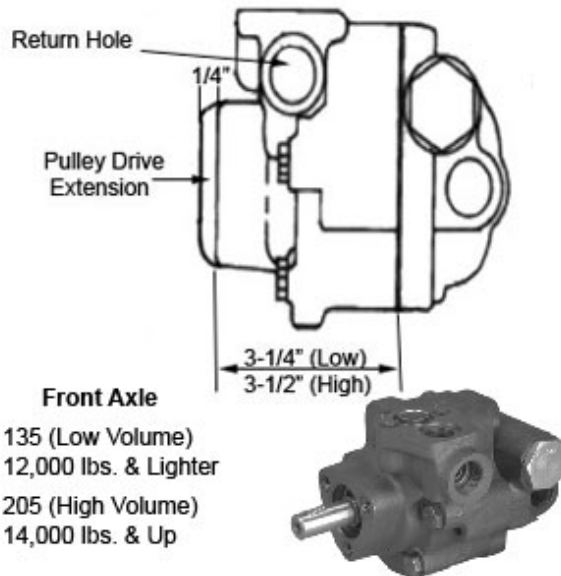
Notes:

- 1) Seal Kit use part number **R3309**.

SKU#	Product Description	Axle Weight	GPM	PSI	OEM #	MFG. #	Application/Notes	Core Group
RP70101X	Remanufactured Eaton BB-Pump	12000 lbs.	5	2100	10-02446	ER17276-3	Paccar-Peterbilt With Return Port Spline Shaft	PS7001
RP70102X	Remanufactured Eaton BB-Pump	16000 lbs.	6	2100	14-12051-000	ER17273-37	Freightliner Spline Shaft	PS7001
RP70103X	Remanufactured Eaton BB-Pump	16000 lbs.	6	2100	14-12050-000	ER17273-38	Freightliner Spline Shaft	PS7001
RP70106	New Eaton BB-Pump	12000 lbs.	8	1500	3913991	ER17273-18	Cummins Engine Spline Shaft	-
RP70106X	Remanufactured Eaton BB-Pump	12000 lbs.	8	1500	3913991	ER17273-18	Cummins Engine Spline Shaft	PS7001
RP70107X	Remanufactured Eaton BB-Pump	12000 lbs.	5	1750	97-7774-00001	ER17273-52	Flexible Spline Shaft	PS7001
RP70108X	Remanufactured Eaton BB-Pump	12000 lbs.	5	2100	E8HT3A674EA 290-1311117	ER17184-1 ER17273-16	Bluebird Spline Shaft	PS7001
RP70109X	Remanufactured Eaton BB-Pump	12000 lbs.	5.5	2100	ER17273-58 P100796	ERS17110-18	Oshkosh Spline Shaft	PS7001
RP70110X	Remanufactured Eaton BB-Pump	16000 lbs.	6	2100	E8HT3A674FA	ER17185-1	Ford Spline Shaft	PS7001
RP70111X	Remanufactured Eaton BB-Pump	12000 lbs.	3.5	1500	681-466-1301	ER17273-8	Freightliner Spline Shaft	PS7001
RP70112X	Remanufactured Eaton BB-Pump	16000 lbs.	6	2100	E7HZ3A674C	-	Cummins-Ford-CCW Spline Shaft	PS7001
RP70302X	Remanufactured Eaton BB-Pump	-	7.5	2300	LE5X	-	High Volume, CCW 11 Tooth, Spline Shaft	PS7001

Eaton BB-Pump – New/Remanufactured

Gear Driven with Straight Shaft



Features:

- Supplied with the necessary oil rings for servicing the reservoir.

Specifications:

Approximate Weight 15 lbs.

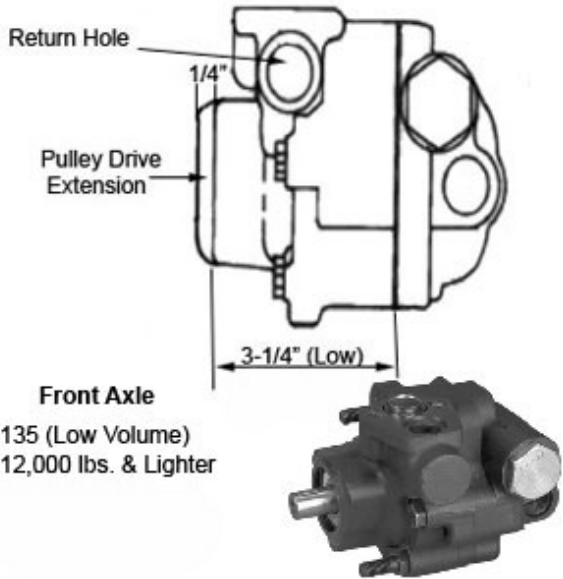
Notes:

- 1) Seal Kit use part number **R3309**.

SKU#	Product Description	Axle Weight	GPM	PSI	OEM #	MFG. #	Application	Core Group
RP70105	New Eaton BB-Pump, Gear Driven, Straight Shaft	16000 lbs.	6	2100	14-12049-000	ER17274-9	Freightliner	-
RP70105X	Remanufactured Eaton BB-Pump, Gear Driven, Straight Shaft	16000 lbs.	6	2100	14-12049-000	ER17274-9	Freightliner	PS7001
RP70201X	Remanufactured Eaton BB-Pump, Gear Driven, Straight Shaft	16000 lbs.	6	2350	1664376C91	ER17225-2	Navistar	PS7001
RP70202X	Remanufactured Eaton BB-Pump, Gear Driven, Straight Shaft	16000 lbs.	8	2350	E8HT3A674CA	ER17229-3	Ford	PS7001
RP70203X	Remanufactured Eaton BB-Pump, Gear Driven, Straight Shaft	12000 lbs.	4	2350	1675898C91	ER17270-10	Navistar	PS7001
RP70204X	Remanufactured Eaton BB-Pump, Gear Driven, Straight Shaft	12000 lbs.	5.5	2100	-	-	-	PS7001
RP70205X	Remanufactured Eaton BB-Pump, Gear Driven, Straight Shaft	12000 lbs.	4.5	2100	-	-	-	PS7001

Eaton BB-Pump – New/Remanufactured

Pulley Driven with Straight Shaft



Features:

- Supplied with the necessary oil rings for servicing the reservoir.

Specifications:

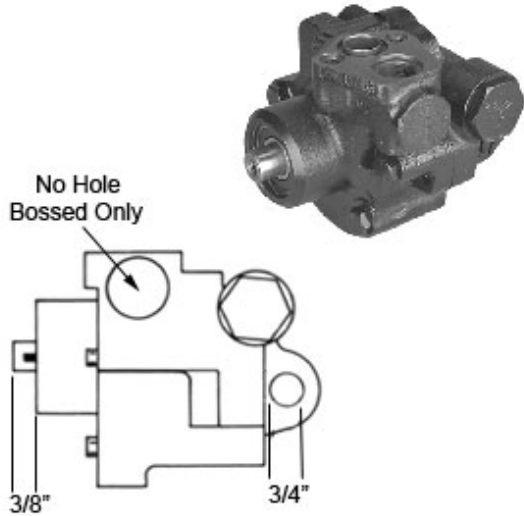
Approximate Weight 13 lbs.

Notes:

- 1) Seal Kit use part number **R3309**.

SKU#	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
RP70301X	Remanufactured Eaton BB-Pump, Pulley Driven, Straight Shaft	12000 lbs.	4	2300	1664377C91	ER16481-2	Navistar	PS7001

Eaton U-Pump – Remanufactured



Features:

- Supplied with the necessary oil rings for servicing the reservoir.

Specifications:

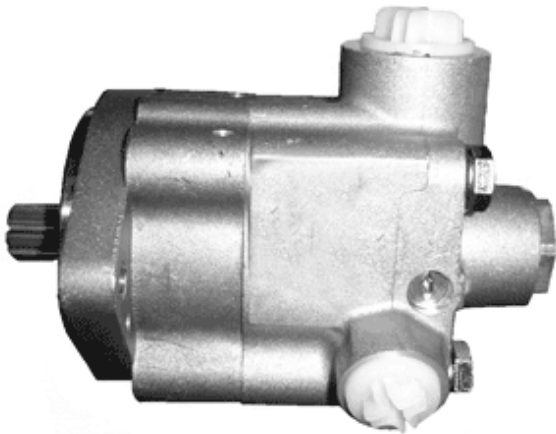
Approximate Weight 13 lbs.

Notes:

- 1) Seal Kit use part number **R3308**.

SKU#	Product Description	Type Of Fitting	Shaft Length	Cooler Port	G.P.M.	PSI	OEM #	MFG. #	Truck/Engine Application	Core Group
RP30301X	Remanufactured Eaton U-Pump	5/8" Inverted Flare	1/2"	No	3.5	1450	D7HT3A691BA	ER15255-1	Ford/Cat Engine	PS3003
RP30302X	Remanufactured Eaton U-Pump	5/8" Inverted Flare	1/2"	Yes	3.5	1450	D5HA3A691YA	ER15256-1	Ford/Cat Engine	PS3003
RP30303X	Remanufactured Eaton U-Pump	5/8" Inverted Flare	1"	No	3.5	1450	E1HT3A696AB	ER15860-1	Ford/Cat Engine	PS3003
RP30304X	Remanufactured Eaton U-Pump	5/8" Inverted Flare	1"	Yes	3.5	1450	–	ER15342-1	Ford/Cat Engine	PS3003
RP30305X	Remanufactured Eaton U-Pump	3/4" O-Ring	1/2"	No	4.9	1550	255801C91	ER15092-1	Navistar/Gas & Diesel Engine	PS3003
RP30306X	Remanufactured Eaton U-Pump	3/4" O-Ring	1"	No	4.9	1550	–	ER12704-1	Ford/Gas & Diesel Engine	PS3003
RP30307X	Remanufactured Eaton U-Pump	5/8" Inverted Flare	1"	3/4"	3.5	1450	–	ER15342-1	Ford/Cat Engine	PS3003

LUK 73 Series – New



Features:

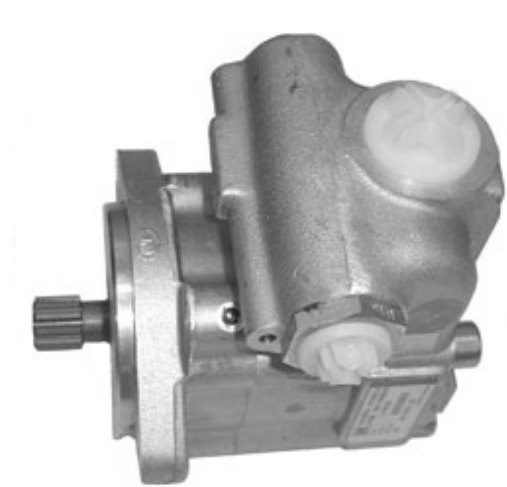
- Spline Shaft – 11 Teeth

Specifications:

Approximate Weight 7 lbs.

SKU#	Product Description	OEM Number	Manufacture Number	Truck/Engine Application
RP12101	New LUK 73 Series Pump	2106218	LF73RUUB38	Kenworth
RP12102	New LUK 73 Series Pump	2106076	LF73LUUB38	International
RP12103	New LUK 73 Series Pump	2108831	LF73RPUB38	Mack
RP12104	New LUK 73 Series Pump	2108214	LF73LPUB38	Freightliner
RP12106	New LUK 73 Series Pump	516154	LF73LMMB38	Volvo
RP12110	New LUK 73 Series Pump	–	LF73CRUB38	–
RP12111	New LUK 73 Series Pump	2105341	LF73LUUD38	International
RP12115	New LUK 73 Series Pump	2106400	LF73LMND38	Volvo
RP13001	New LUK 73 Series Pump	2105355	LF73RPUB38	Freightliner
RP13002	New LUK 73 Series Pump	2106765	LF73RUUB38	Volvo
RP13003	New LUK 73 Series Pump	2106751	LF73LPUD38	Volvo

LUK 93 Series – New



Features:

- Spline Shaft – 11 Teeth

SKU#	Product Description	OEM Number	Manufacture Number	Truck/Engine Application
RP12120	New LUK 93 Series Pump	542-0370-10	LF93CLPUB38	GMC

H-39 Series Pump – Remanufactured

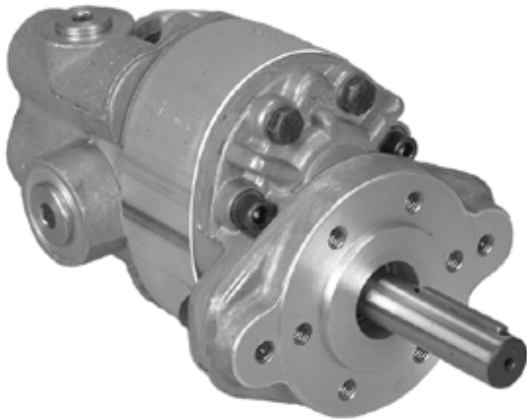


Specifications:

Spline 11 Tooth
Rotation Clockwise
Approximate Weight 10 lbs.

SKU#	Product Description	Axle Weight	Gallons Per Minute	PSI	OEM Number	Manufacture Number	Application	Core Group
RP80101X	Remanufactured Parker Hannifin H-39 Series Power Steering Pump	12000 lbs.	4	2150	575585C91	H39BT2AA21540DS	Navistar	PS8001
RP80102X	Remanufactured Parker Hannifin H-39 Series Power Steering Pump	12000 lbs.	4	1500	6814662001	PH39BT2AA21540DS	Freightliner	PS8001

H-90 Series Pump – Remanufactured



Features:

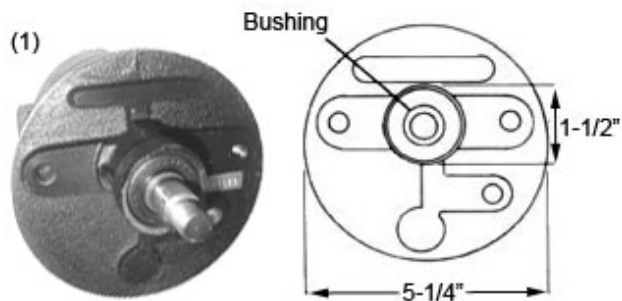
- Key Driven 2.66 Extension

Specifications:

Approximate Weight 12 lbs.

SKU#	Product Description	Axle Weight	Rotation	GPM	PSI	OEM Number	Manufacture Number	Application	Core Group
RP80301X	Remanufactured Parker Hannifin H-90 Series Power Steering Pump	16000 lbs.	CW	6	1750	472586C91	H90CY2CA17560DS	Navistar	PS8001
RP80302X	Remanufactured Parker Hannifin H-90 Series Power Steering Pump	16000 lbs.	CCW	6	1750	472587C91	H90CY1CA17560DS	Navistar	PS8001
RP80304X	Remanufactured Parker Hannifin H-90 Series Power Steering Pump	16000 lbs.	CCW	7.5	1750	592997C91	H90CY1C917560DS	Navistar	PS8001

Saginaw Steering Pumps – New/Remanufactured



Features:

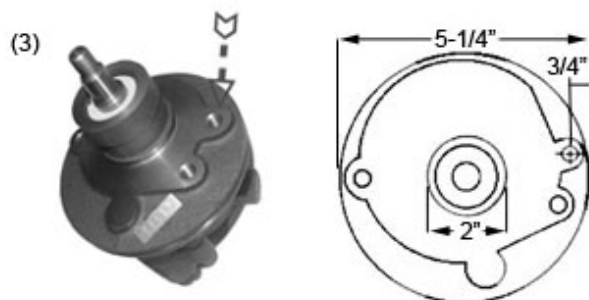
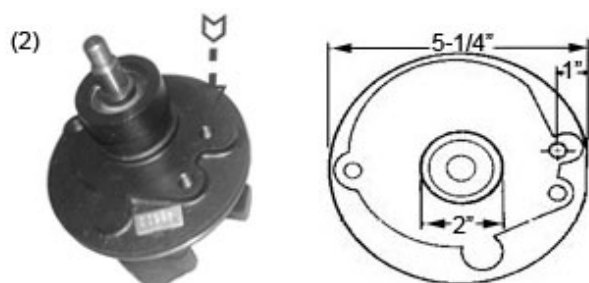
- Supplied with the necessary oil rings for servicing the reservoir.

Specifications:

Approximate Weight 11 lbs.

Notes:

- 1) Seal Kit use part number **R3285**.



SKU#	Product Description	Casting Number	Manufacture Number	Engine	Model	Core Group	Picture Number
RP145X	Reman. Saginaw Power Steering Pump – GM Light Duty	7830247	–	Chevrolet 3500 Light Duty without reservoir	Bushing Type	PS2010	not shown
RP20201	Saginaw Power Steering Pump – Chevrolet / GMC / IHC	7812808	488787C91	Chevrolet/GMC	Big Bearing	–	3
RP20201X	Reman. Saginaw Power Steering Pump – Chevrolet / GMC / IHC	7812808	488787C91	Chevrolet/GMC	Big Bearing	PS2002	3
RP20202	Saginaw Power Steering Pump – Chevrolet / GMC / IHC	5692687	7840122	Chevrolet/GMC	Big Bearing	–	2
RP20202X	Reman. Saginaw Power Steering Pump – Chevrolet / GMC / IHC	5692687	7840122	Chevrolet/GMC	Big Bearing	PS2002	2
RP20203X	Reman. Saginaw Power Steering Pump – Chevrolet / GMC / IHC	5688074	–	Chevrolet/GMC	Bushing Type	PS2002	1
RP8747X	Reman. Saginaw Power Steering Pump – GM Light Duty	5698119	15909826	C1500 Series Pick-Up Truck – Light Duty	Bushing Type	PS2010	not shown

TRW Dodge/Early Ford – Remanufactured

(1)

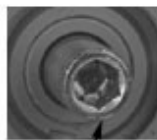
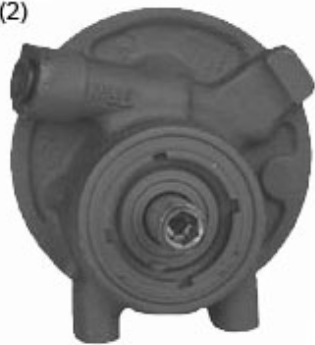


Slotted Shaft

Specifications:

Approximate Weight 10 lbs.

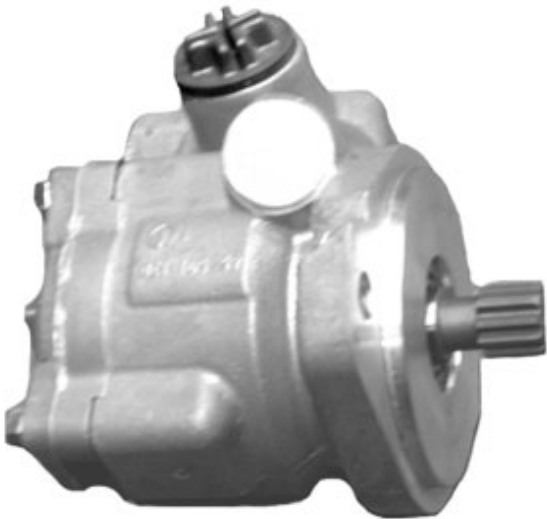
(2)



Hex Shaft

SKU#	Product Description	Casting Number	Manufacture Number	Engine	Core Group	Pic. #
RP10401X	Remanufactured TRW Dodge/Early Ford Power Steering Pump – Slotted Shaft	36-5N	38-58	Dodge 318, 361, 413	PS1004	1
RP10501X	Remanufactured TRW Dodge/Early Ford Power Steering Pump – Hex Shaft	36-5N	38-58	Dodge 318, 361, 413	PS1005	2

TRW EV Series – Remanufactured



Features:

- Lightweight, High Pressure Pump

Specifications:

Approximate Weight 10 lbs.

SKU#	Product Description	OEM Number	Rotation	Shaft	Housing	Relief Setting	Core Group
RP221605X	Remanufactured TRW EV Series Power Steering Pump	EV221615L101	Left	11 Tooth	SAE A Flange – JIC port	2175 PSI	PS1006
RP221606X	Remanufactured TRW EV Series Power Steering Pump	EV221618L101	Left	11 Tooth	SAE A Flange – JIC port	2683 PSI	PS1006
RP221607X	Remanufactured TRW EV Series Power Steering Pump	EV221615R101	Right	11 Tooth	SAE A Flange – JIC port	2175 PSI	PS1006
RP221614X	Remanufactured TRW EV Series Power Steering Pump	EV181615L101	Left	11 Tooth	SAE A Flange – JIC port	2175 PSI	PS1006

TRW PS Series – Remanufactured

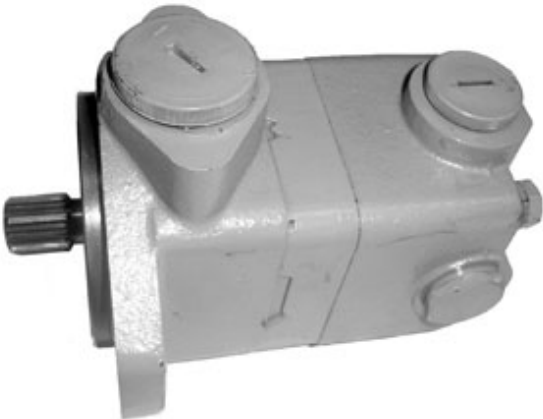


Specifications:

Approximate Weight 10 lbs.

SKU#	Product Description	OEM Number	Rotation	Shaft	Housing Outlet/Inlet	Relief Setting	Core Group
RP221601X	Remanufactured TRW New Style Power Steering Pump	PS221615R103	Right	11 Tooth	Right/Left	2175 PSI	PS1006
RP221602X	Remanufactured TRW New Style Power Steering Pump	PS221615L103	Left	11 Tooth	Right/Left	2175 PSI	PS1006
RP221603X	Remanufactured TRW New Style Power Steering Pump	PS221615R102	Right	11 Tooth	Right/Top	2175 PSI	PS1006
RP221604X	Remanufactured TRW New Style Power Steering Pump	PS221615L102	Left	11 Tooth	Right/Top	2175 PSI	PS1006
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
RP221616X	Reman. TRW New Style Power Steering Pump	PS221610R105	Right	11 Tooth	Left/Top	1450 PSI	PS1006
RP221617X	Reman. TRW New Style Power Steering Pump	PS251415L105	Left	11 Tooth	Left/Top	2175 PSI	PS1006
RP221618X	Reman. TRW New Style Power Steering Pump	PS221415R102	Right	11 Tooth	Right/Top	2175 PSI	PS1006

V-10F & NF Series Pump – Remanufactured



Features:

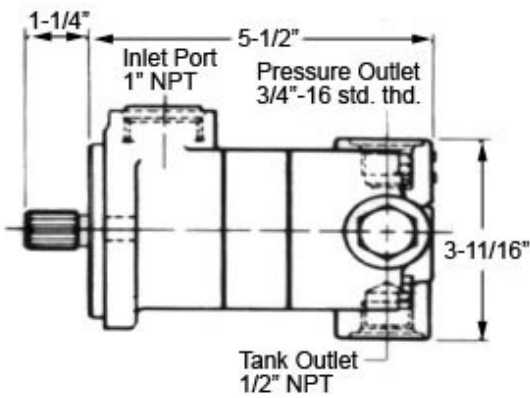
- Comes with all gaskets necessary for mounting to engines.

Specifications:

Approximate Weight 14 lbs.

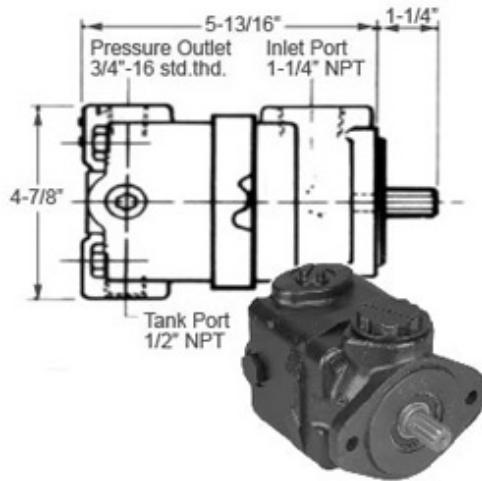
Notes:

- 1) Seal Kit use part number **R3293**.



SKU#	Product Description	Axle Weight	GPM	PSI	OEM #	MFG. #	Application	Core Group
RP50101X	Remanufactured V-10F Series with Spline Shaft	12000 lbs.	6	1500	503114-3	V10F1P6P38C6F20	Peterbilt	PS5001
RP50102X	Remanufactured V-10F Series with Spline Shaft	12000 lbs.	5	1500	38QC375P2	V10F1P7P38D5F20	Mack	PS5001
RP50103X	Remanufactured V-10NF Series with Spline Shaft	12000 lbs.	6	1700	575585C91	V10NF1S5T38C5G	International	PS5001
RP50105X	Remanufactured V-10F Series with Spline Shaft	12000 lbs.	6	1700	502503-3	V10F1P6P38C6G	Peterbilt	PS5001
RP50107X	Remanufactured V-10F Series with Spline Shaft	12000 lbs.	6	1700	502503-3	V10F1P7P38C6G20	Peterbilt	PS5001

V-20F Series Pump – Remanufactured



Features:

- Comes with all gaskets necessary for mounting to engines.

Specifications:

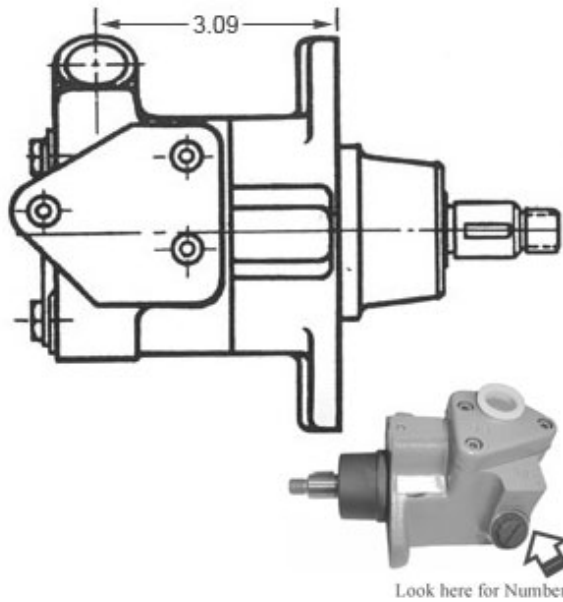
Approximate Weight 17 lbs.

Notes:

- 1) Seal Kit use part number **R3294**.

SKU#	Product Description	Shaft	Axle Weight	GPM	PSI	MFG. #	Application	Core Group
RP60101X	Reman. V-20F	Spline	12000 lbs.	6	1500	V20F1P6P38C6F20	Cummins/Cat	PS6001
RP60103X	Reman. V-20F	Smooth Keyed	12000 lbs.	6	1250	V20NF4R9P1C6E11	Detroit	PS6001
RP60104X	Reman. V-20F	Spline	12000 lbs.	6	1750	V20F1P9P38C6G11	Cummins	PS6001
RP60105X	Reman. V-20F	Spline	12000 lbs.	6	1750	V20NF1D6P38C6G11	Cummins	PS6001
RP60106X	Reman. V-20F	Smooth Keyed	12000 lbs.	6	2000	V20F4P8S1C6H11	Detroit	PS6001
RP60107X	Reman. V-20F	Smooth Keyed	12000 lbs.	4	1750	V20F1P6P3C4G11	Detroit	PS6001
RP60108X	Reman. V-20F	Spline	12000 lbs.	5	1750	V20NF1S5T38C5G20	Cummins/Cat	PS6001
RP60109X	Reman. V-20F	Spline	12000 lbs.	6	1750	V20NF1011P38C6G11C	Cummins	PS6001
RP60110X	Reman. V-20F	Spline	16000 lbs.	6	1750	V20F1P11P38D6G11	Cummins	PS6001
RP60111X	Reman. V-20F	Smooth Keyed	12000 lbs.	6	1250	V20F4P9P1C6E11	Detroit	PS6001
RP60112X	Reman. V-20F	Spline	12000 lbs.	4	2000	V20F1P7P38C4H20L	Cummins/Cat	PS6001
RP60113X	Reman. V-20F	Smooth Keyed	12000 lbs.	6	1750	V20F1P9P1C6G11	Detroit	PS6001
RP60114X	Reman. V-20F	Spline	12000 lbs.	6	2000	V20NF1P9P38C6H20	Cummins/Cat	PS6001
RP60115X	Reman. V-20F	Spline	12000 lbs.	5	2000	V20F1P7P38C5H20	Mack	PS6001
RP60116X	Reman. V-20F	Spline	16000 lbs.	7	2000	V20F1P13P38C7H22	Cummins/Cat	PS6001
RP60118X	Reman. V-20F	Spline	16000 lbs.	8	1500	V20F1P13P38D8F11	Cummins/Cat	PS6001
RP60119X	Reman. V-20F	Spline	16000 lbs.	7	2000	V20F1S8S38C7H11	Cummins/Cat	PS6001
RP60120X	Reman. V-20F	Spline	12000 lbs.	6	1750	V20NF1P9P38C6GLH	Cummins L-10 Cat 3406B	PS6001
RP60121X	Reman. V-20F	Spline	12000 lbs.	6	1750	V20NF1P9P38C6G20	Cummins	PS6001
RP60122X	Reman. V-20F	Spline	12000 lbs.	6	1750	V20F1P8P38C6G11	Cummins/Cat	PS6001
RP60133X	Reman. V-20F	Spline	12000 lbs.	4	2000	V20F1P8P38C4H	Cummins/Cat	PS6001
RP60134X	Reman. V-20F	Spline	16000 lbs.	8	2000	V20F1P11P38C8H	Cummins/Cat	PS6001
RP60136X	Reman. V-20F	Spline	16000 lbs.	8	2000	V20F1P11P38C8O11L	Cummins/Cat	PS6001

RP60137X	Reman. V-20F	Spline	12000 lbs.	6	2000	V20NF1D11T38C6HL	Cummins/Cat	PS6001
----------	--------------	--------	------------	---	------	------------------	-------------	--------

VTM-42 Series Pump – Remanufactured**Features:**

- Comes with all gaskets necessary for mounting to engines.

Specifications:

Approximate Weight 14 lbs.

SKU#	Product Description	Axle Weight	Gallons Per Minute	PSI	Manufacture Number	Core Group
RP90102X	Remanufactured Vickers VTM-42 Series Power Steering Pump	12000 lbs.	4.5	1500	VTM42505515	PS9002
RP90105X	Remanufactured Vickers VTM-42 Series Power Steering Pump	12000 lbs.	4.5	2000	VTM42504520	PS9002
RP90106X	Remanufactured Vickers VTM-42 Series Power Steering Pump	12000 lbs.	4	1500	VTM42504015L	PS9002

17-POWER STEERING PUMPS Zahnrdfabrik Fridrichshafen (ZF)

ZF Gear Driven – Remanufactured



Features:

- Gear Drive

Specifications:

Application Ford New Holland
Approximate Weight 15 lbs.

SKU#	Product Description	Shaft	Rotation	Gallons Per Minute	PSI	ZF Number	OEM Number	Core Group
RP11001X	Remanufactured Zahnrdfabrik Fridrichshafen Power Steering Pump – Gear Drive	Gear	Clockwise	4 to 4.5	2100	7674 974 909	E8HT3A674AA	PS1101
RP11010X	Remanufactured Zahnrdfabrik Fridrichshafen Power Steering Pump – Gear Drive	Gear	Counter Clockwise	7	2325	7677 955 179	F1HZ3A674F	PS1101
RP11011X	Remanufactured Zahnrdfabrik Fridrichshafen Power Steering Pump – Gear Drive	Gear	Counter Clockwise	4.5	2175	7674 955 272	E8HT3A674BA	PS1101
RP11014X	Remanufactured Zahnrdfabrik Fridrichshafen Power Steering Pump – Gear Drive	Gear	Counter Clockwise	4.5	2300	7674 497 924	E8HZ3A674M	PS1101
RP11016X	Remanufactured Zahnrdfabrik Fridrichshafen Power Steering Pump – Gear Drive	Gear	Clockwise	4.5	2325	7674 900 112	F6HZ3A711VA	PS1101
RP11019X	Remanufactured Zahnrdfabrik Fridrichshafen Power Steering Pump – Gear Drive	Gear	Clockwise	6	2325	7674 974 109	F4HZ3A674F	PS1101

Zahnrdfabrik Fridrichshafen (ZF) 17-POWER STEERING PUMPS

ZF Spline Driven – Remanufactured



Features:

- Spline Drive

Specifications:

Approximate Weight 20 lbs.

SKU#	Product Description	Shaft	Rotation	Gallons Per Minute	PSI	ZF Number	OEM Number	Application	Core Group
RP11004X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CCW	3.5 to 4	1900	7673 955 273	38401-3226	Cat L10-3406	PS1101
RP11005X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CW	3.5 to 4	2100	7674 955 273	E9HT3A674BA	NTC Cummins	PS1101
RP11006X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CW	5.5 to 6	2175	7677 955 180	F1HT3A674AA	Cummins	PS1101
RP11007X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CCW	5.5 to 6	2175	7677 955 181	F1HT3A674EA	Cat 3406	PS1101
RP11008X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CW	7.0	2400	7677 955 187	F1HZ3A674L	Ford	PS1101
RP11009X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CCW	5.5 to 6	2400	7674 955 343	F0H23A674D	Ford	PS1101
RP11012X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CW	4.0	2000	7673 955 320	10-02146	Peterbilt	PS1101
RP11013X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CCW	4.0	2000	7673 955 321	10-02141	Peterbilt	PS1101
RP11015X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CW	5.0	2300	7674 955 344	F4HT3A674EA	Ford	PS1101
RP11018X	Reman. ZF Power Steering Pump – Spline Drive	11 Tooth	CW	6.0	2175	7674 955 920	–	–	PS1101

Seal Kits



R3294



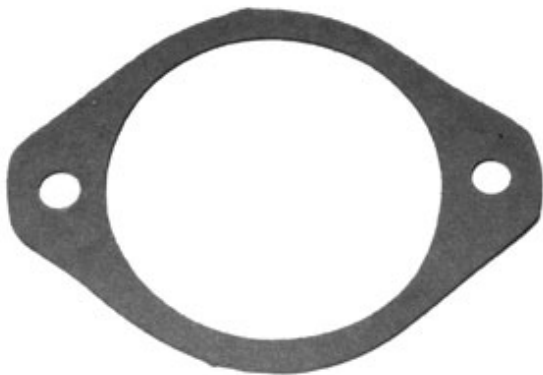
R3308



R3307

SKU#	Product Description	Model Type	Kit Contains
R3285	Power Steering Pump Seal Kit for Saginaw	Saginaw Steering Pump	(2) O-Ring – Bolt and Pressure Union (1) O-Ring – Reservoir (2) O-Ring – End and Pressure Plate (1) Seal Ring – Flow Control Valve (1) O-Ring – Flow Control Valve (1) Plug
R3293	Power Steering Pump Seal Kit for Vickers	Vickers V-10F Pump Series	(1) Oil Seal – Rotor Shaft (2) Plugs (2) O-Ring – Body and Housing (2) O-Ring – Cap Plug
R3294	Power Steering Pump Seal Kit for Vickers	Vickers V-20F Pump Series	(1) Oil Seal – Rotor Shaft (3) Plugs (2) O-Ring – Body and Housing (2) O-Ring – Cap Plug
R3307	Power Steering Pump Seal Kit for Eaton	Eaton Pump B Series	(1) O-Ring – Gasket (1) Oil Seal – Rotor Shaft (1) O-Ring – Fitting (8) O-Ring – Port Plates (1) O-Ring – Valve Cap
R3308	Power Steering Pump Seal Kit for Eaton	Eaton Pump U Series	(1) Oil Seal – Rotor Shaft (1) O-Ring – Valve Body Cap (1) O-Ring – Valve Body (1) O-Ring – By Pass (4) O-Ring – Gaskets
R3309	Power Steering Pump Seal Kit for Eaton	Eaton Pump BB Series	–

Miscellaneous Kits



R1549 Shown

SKU#	Product Description	Application
R1010	Cummins Power Steering Pump Coupler	Vickers V-10F and V-20F
R1549	Cummins Power Steering Pump Gasket	Vickers V-10F and V-20F

HARD STEERING

- | | |
|---|--|
| 1. Improper tire pressure | 1. Inflate tires to recommended pressures. |
| 2. Loose pump drive belt | 2. Tighten or replace belt. |
| 3. Low or incorrect fluid | 3. Refill reservoir with proper fluid; check for leaks. |
| 4. Loose, bent or poorly lubricated front end parts | 4. Tighten or replace parts; lubricate at all fittings. |
| 5. Improper front end alignment | 5. Align front end. |
| 6. Bind in steering column or linkage | 6. Disassemble and inspect component parts. Repair or replace as necessary. |
| 7. Air in hydraulic system | 7. Bleed system, refill and check for leaks. |
| 8. Low pump output or leaks in system | 8. Disassemble pump, check for worn or damaged parts. Check for leaks in the system. |
| 9. Obstruction in lines | 9. Clean or replace lines. |
| 10. Pump valves sticking or out of adjustment | 10. Replace or adjust valves. |
-

LEAKING HOSES AND SEALS

- | | |
|---|---------------------------------|
| 1. Too much fluid in pump reservoir | 1. Remove oil to proper level. |
| 2. Damaged or improperly installed "O" ring in pump reservoir | 2. Replace or adjust. |
| 3. Loose pump fittings or studs | 3. Re-torque to specifications. |
| 4. Defective pump and seals | 4. Replace. |
| 5. Cracks in hose or splits in fittings | 5. Replace hose assembly. |
-

LOOSE STEERING

- | | |
|--|-------------------------------------|
| 1. Loose wheel bearings | 1. Adjust wheel bearings. |
| 2. Faulty shocks | 2. Replace shocks. |
| 3. Worn linkage components | 3. Replace worn components. |
| 4. Loose steering gear mounting or linkage points | 4. Tighten mountings or linkage. |
| 5. Steering mechanism worn or improperly adjusted. | 5. Replace and/or adjust mechanism. |
| 6. Valve spool improperly adjusted | 6. Adjust valve spool. |
-

NOISES

- | | |
|---|---|
| 1. Loose belts | 1. Replace and/or adjust belts. |
| 2. Low fluid, air in system | 2. Refill and check for leaks. |
| 3. Foreign matter in system | 3. Disassemble and clean system. |
| 4. Improper lubrication | 4. Lubricate all fittings. |
| 5. Interference or chafing in linkage | 5. Disassemble, inspect, replace or adjust components. |
| 6. Steering gear mountings loose | 6. Tighten mountings. |
| 7. Incorrect adjustment or wear in gear box | 7. Disassemble, inspect, repair, replace and/or adjust parts. |
| 8. Faulty valves or wear in pump | 8. Replace parts as necessary. |
-

VEER OR WANDER

- | | |
|---|--|
| 1. Improper tire pressure | 1. Inflate tires to recommended pressures. |
| 2. Improper front end alignment | 2. Align front end. |
| 3. Dragging brakes | 3. Inspect, replace and/or adjust brakes. |
| 4. Bent frame | 4. Straighten frame. |
| 5. Improper rear end alignment | 5. Inspect shocks and control arm torque.
Replace and/or adjust as necessary. |
| 6. Faulty shocks or springs | 6. Replace as necessary. |
| 7. Loose or bent front end components | 7. Replace as necessary. |
| 8. Play in Pitman arm | 8. Inspect bushings and arm. Replace as
necessary. |
| 9. Loose wheel bearings | 9. Adjust to specifications. |
| 10. Binding Pitman arm | 10. Replace arm. |
| 11. Spool valve sticking or improperly adjusted | 11. Adjust or replace as necessary. |
-

WHEEL OSCILLATION

- | | |
|---|---|
| 1. Improper tire pressure | 1. Inflate tires to recommended pressures. |
| 2. Loose wheel bearings | 2. Adjust to specifications. |
| 3. Improper front end alignment. | 3. Align front end. |
| 4. Bent spindle | 4. Replace spindle. |
| 5. Worn, bent or broken front end components | 5. Inspect, repair or replace as necessary. |
| 6. Tires out of round or out of balance | 6. Replace or balance tires. |
| 7. Excessive lateral runout in disc brake rotor | 7. Reface or replace rotor. |
-

CONTAMINATED OIL FLUSHING INSTRUCTIONS

1. Disconnect return line from the gear at the point it is attached to the integral or remote reservoir. Direct the return line into a suitable fluid container of eight quarts minimum capacity. Temporarily plug or cap reservoir return port tube or fitting. Fill reservoir with recommended fluid. Disconnect ignition system. Jack front wheels from floor. Restrain vehicle with safety blocks. Engage starter motor and turn wheels simultaneously to full travel until oil is no longer pumped. Refill reservoir and repeat. Remove vehicle from jack, remove safety blocks, reconnect return line to reservoir and reconnect ignition system. Fill reservoir with manufacturer's recommended fluid to capacity. Start engine and run for 30 seconds. Shut off engine.
2. Fill (or refill) the reservoir to the cold fill mark with the manufacturer's recommended fluid. If equipped with a dipstick showing hot full only, fill with oil to just cover the filter.
3. Start the engine and let run at idle speed for a couple minutes. Cycle the steering wheel a few times to eliminate entrapped air. For pumps having dipstick showing hot full only, allow the truck to reach operating temperature before stopping the engine. For units with cold fill marks, the engine may be stopped after cycling. Fill to indicated levels on sight gauge (some models) or dipstick (some models).

Notes

CARQUEST Corporation
Raleigh, North Carolina 27604
www.CARQUEST.com



HHG
2010