

Service Bulletin #580

Illustration for HFB520000 Seal Kit

Revised January, 1999

As an added protection against shaft corrosion, the grease packs behind the input and output shaft dirt & water seals should be maintained as a general maintenance procedure. A strict grease pack maintenance program should be followed for steering gears subjected to extreme operating conditions such as high temperatures (200°F and above), salt water atmosphere, pressure spray washing, etc. Maintain this grease pack using one of the following procedures:

Output Shaft Seal with NO Grease Zerk / Input Shaft Seal

CAUTION If it is necessary to disconnect the linkage to the HFB unit's input or output shaft to perform the grease pack maintenance procedure, refer to the latest appropriate HFB Service Manual for further service procedures and hazard notices.

1. Slide out the seal protector and pry out the dirt and water seal with a screwdriver. Slide it away from the seal cavity.
2. Wipe out the cavity area with a clean cloth.

This TRW Commercial Steering Division service bulletin has been written to help you repair commercial vehicles more efficiently. This bulletin should not replace your manuals; you should use them together. These materials are intended for use by properly trained, professional mechanics, NOT "Do-it-yourselfers". You should not try to diagnose or repair steering problems unless you have been trained, and have the right equipment, tools and know-how to perform the work correctly and safely.

CAUTION Do not use solvent or high pressure to clean out the seal cavity. This could contaminate the unit, dissolve new grease, or deteriorate the high pressure seals.

3. Apply a generous amount of high temperature industrial grease per TRW specification 045231, Mobil Temp* 1 or 2 or equivalent, into the seal cavity around the shaft.
4. Reinsert the dirt and water seal.
5. Add more grease to the seal area and slide the protector back in place.

CAUTION Be sure the dirt and water seal is correctly seated, and the correct high temperature industrial grease is used.

Output Shaft Seal with Grease Zerk

1. Grease through zerk at regular chassis lubrication intervals using a hand-operated grease gun.
2. If the grease fitting remains in the grease gun nozzle after maintenance, reinstall it in the protector boot.

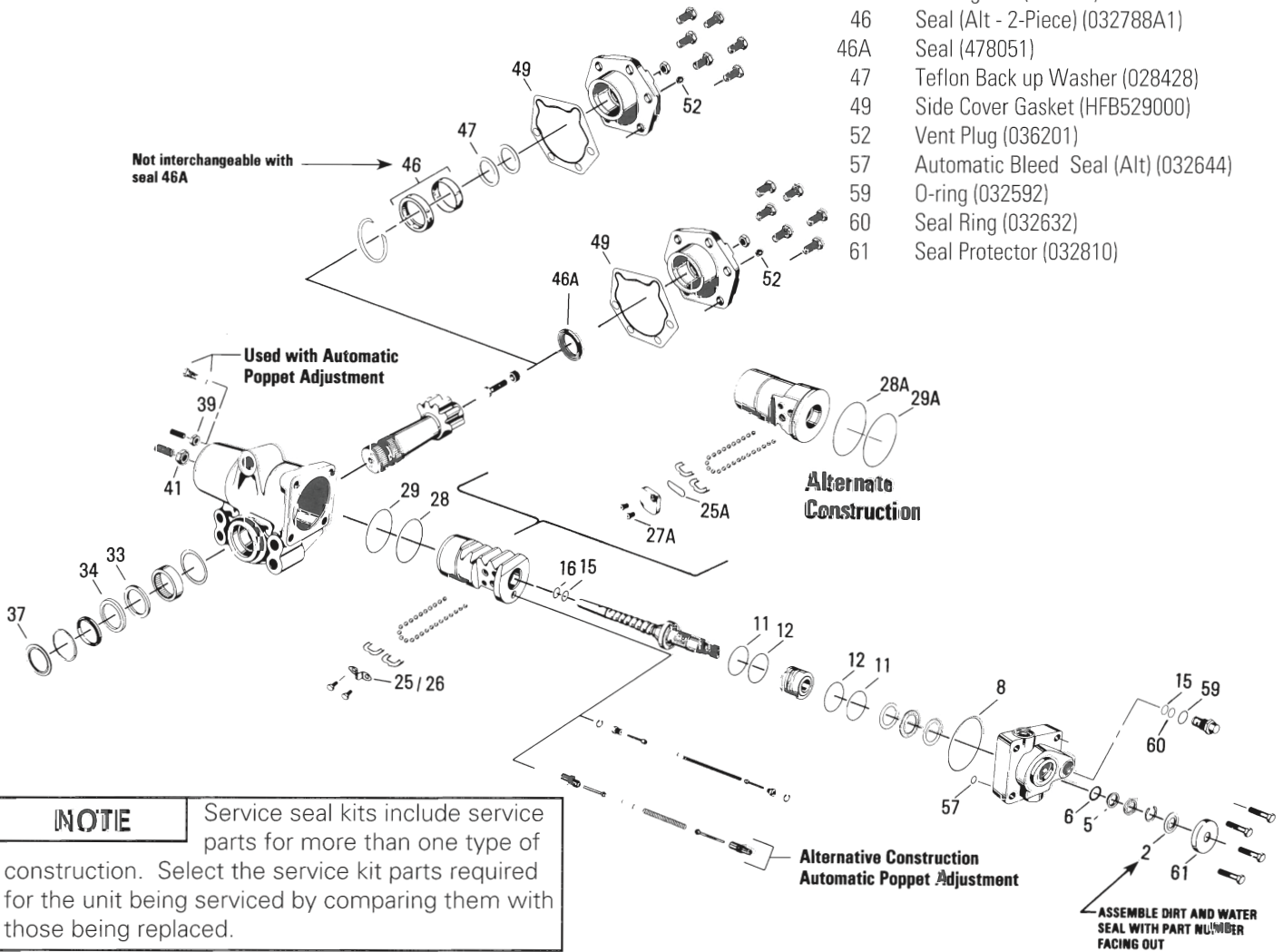
*Registered trademark of
Mobil Oil Co.

Kit #HFB520000 includes all item numbers shown in this bulletin.

All above kits include grease pack #406015.

- 2 Dirt & Water Seal (032579)
- 5 Seal Cup (032577)
- 6 O-ring (032578)
- 8 Seal Ring (032576)
- 11 Teflon Seal Ring (2) (032570)
- 12 O-ring (2) (032571)
- 15 O-ring (2) (032552)
- 16 Seal Ring, Plastic (032636)
- 25/26 Ball Return Guide Clip (402434)
- 25A Seal (032550)
- 27A Special Screw (2) (020228)
- 28 O-ring (032572)
- 28A O-ring (032544)
- 29 Seal Ring, Plastic (032573)
- 29A Seal Ring, Plastic (032579)
- 33 Seal (2-Piece) (032789A1)
- 34 Teflon Back up Washer (028431)
- 37 Dirt & Water Seal (032581)
- 39 Sealing Nut (025121)
- 41 Sealing Nut (025123)
- 46 Seal (Alt - 2-Piece) (032788A1)
- 46A Seal (478051)
- 47 Teflon Back up Washer (028428)
- 49 Side Cover Gasket (HFB529000)
- 52 Vent Plug (036201)
- 57 Automatic Bleed Seal (Alt) (032644)
- 59 O-ring (032592)
- 60 Seal Ring (032632)
- 61 Seal Protector (032810)

WARNING All steering mechanisms are safety critical items. It is imperative the instructions in the vehicle manufacturer's or TRW Commercial Steering Division's latest published Service Manuals are followed to the letter. Failure to observe the proper procedures, cautions and warnings may result in loss of steering and/or personal injury.



NOTE Service seal kits include service parts for more than one type of construction. Select the service kit parts required for the unit being serviced by comparing them with those being replaced.

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