

## Service Procedure #TAS-123

### Illustration for Service Kit TAS850007

Revised March, 2008

This kit will service TAS85 and THP/PCF86 steering gears.

*This TRW Commercial Steering Division service procedure has been written to help you repair commercial vehicles more efficiently. This service procedure 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.*

**⚠ WARNING** All steering mechanisms are safety critical items. As such, it is imperative that the instructions in the vehicle manufacturer's or TRW's latest published service manual are followed to the letter. Failure to observe the proper procedures, cautions and warnings may result in loss of steering.

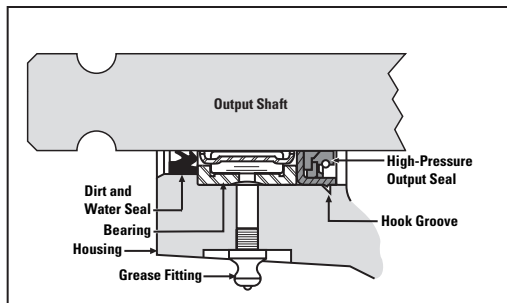
Service seal kits include service parts for more than one type of construction. Select the service kit parts required for the unit being serviced by comparing them with those being replaced.

**⚠ CAUTION** When installing seals, be sure to use the correct seal installation tool. Damage to the seal or improper installation will result if proper tool is not used during installation

Service seal kits include grease pack 406038 and all item numbers shown on this service procedure.

The new side cover gasket (45) is a direct replacement for the older "alternate" design, even though it may look slightly different.

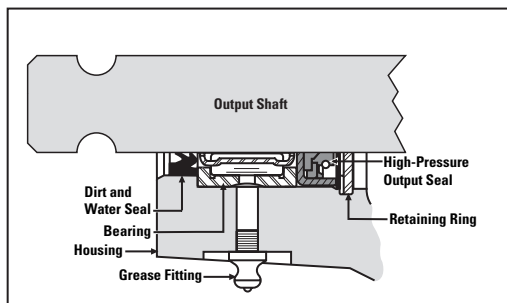
### Section View of Various Output Shaft Seal Installations



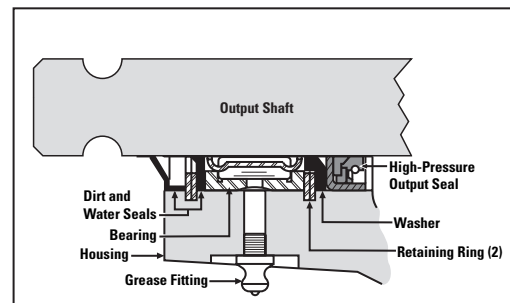
Step Bore w/ Hook Groove

These cross sections of the output shaft seal area show the differences between the various design revisions of the steering gear assembly. The current production procedure to machine a hook groove in the housing to keep the output shaft seal in place. (See exploded views)

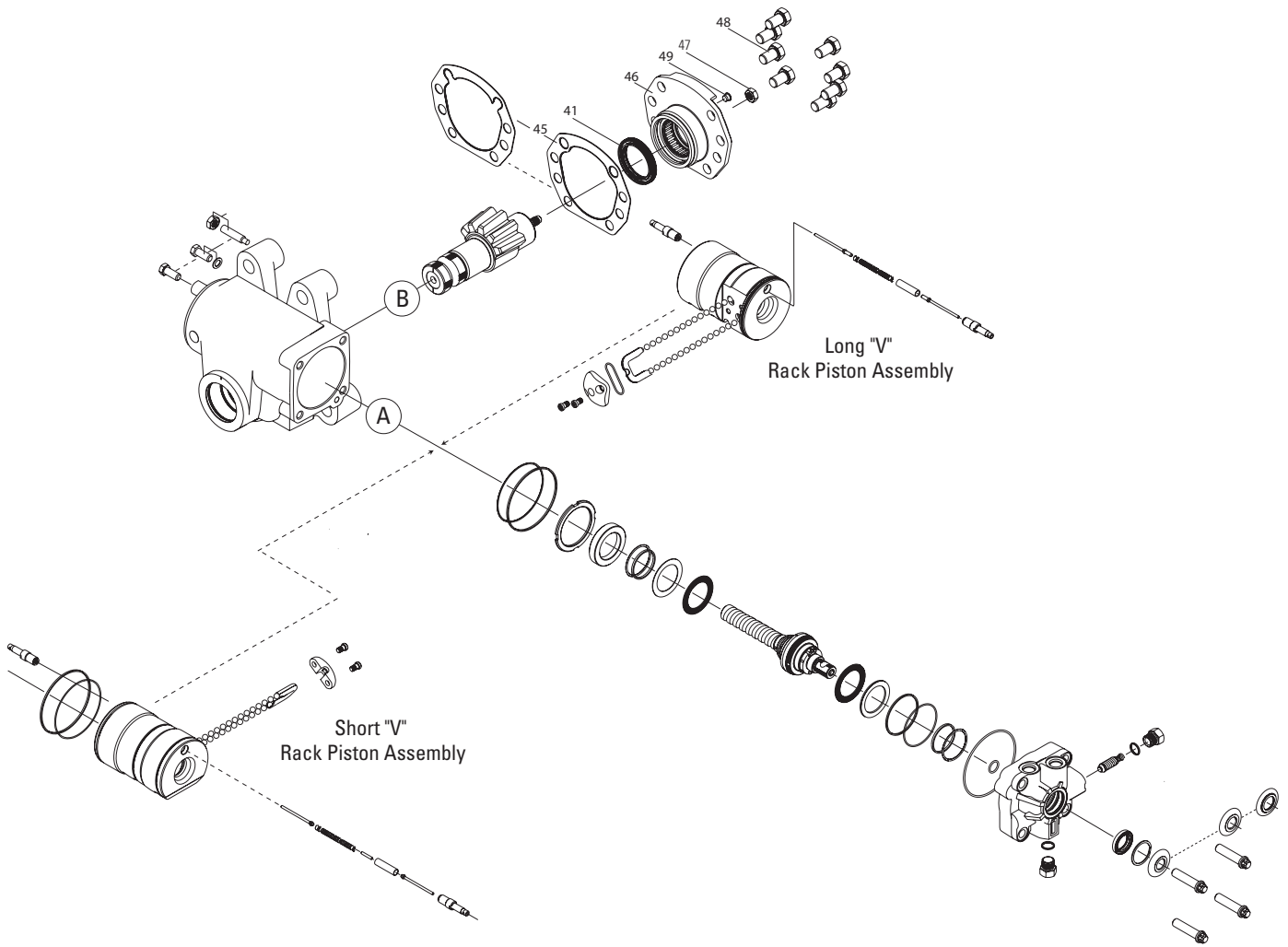
**NOTE** Grease the trunnion bearing with a hand grease gun only. Automatic grease guns may blow out the output shaft seal



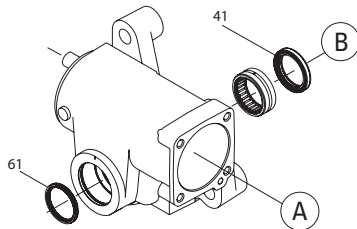
Step Bore w/ Retaining Ring



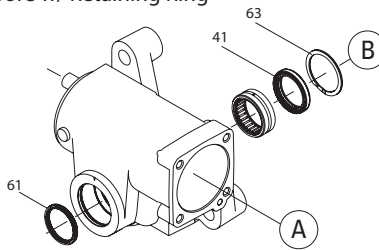
Standard



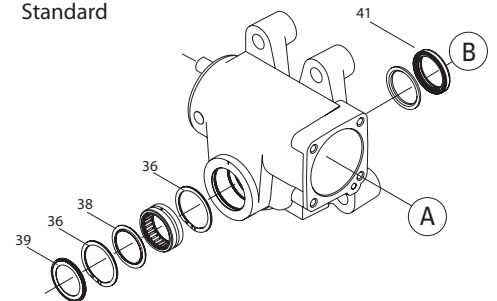
Step Bore w/ Hook Groove



Step Bore w/ Retaining Ring



Standard



Item	Description	Part Number
36	Retaining Ring (2)	401685
38	Dirt Seal	478057
39	Dirt & Water Seal (Trunnion)	478059
41	Seal (2)	478084
45	Gasket (Side Cover)	TAS859000
49	Vent Plug (Slide Cover)	036201
61	Dirt & Water Seal (Trunnion)	478096
63	Retaining Ring (Step Bore)	401723

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