



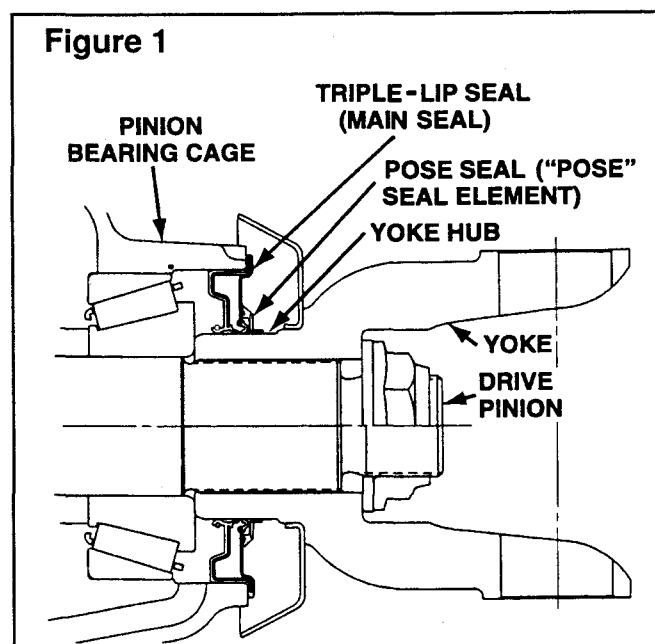
MAINTENANCE MANUAL UPDATE

Installation of the Driveline POSE™ Seal

The POSE™ seal is assembled on the hub or journal of the yoke or flange. When the POSE seal is in correct position, the lips of the seal will seat against the outer retainer of the triple-lip (main seal) that is assembled either in the input bearing cage, output bearing cage or as shown in a drive pinion bearing cage. **Figure 1.**

The addition of a POSE (Press On Shaft Excluder) seal on the following listed drive axle models will improve sealing at the input and output locations. There are five different size POSE seals. See the following chart for the correct seal to use on the axle model being serviced.

* POSE is a trademark of Federal Mogul Corp.



NOTE

Service all POSE seals using the following instructions. These instructions include only the removal and installation of input and output yokes or flanges and the triple-lip seal (main seal) from the differential carriers for the purpose of servicing the POSE seal.

For complete disassembly and assembly procedures of the differential carriers, use the following Rockwell Maintenance Manuals:

Axle Model or Model Series	Rockwell Maintenance Manual
RF-16-145, RF-21-160 and RF-23-180 All RS-145, RS-160, RS-161 and RS-186 series single axles All rear/rear axles of RT-145, RT-160 and RT-185 series tandems	MM No. 5, Single Reduction Differential Carriers
All forward/rear axles of RT-145 and RT-160 series tandems	MM No. 5L, Forward Rear Drive Units

WARNING

To prevent serious eye injury, always wear safe eye protection when performing maintenance or service.

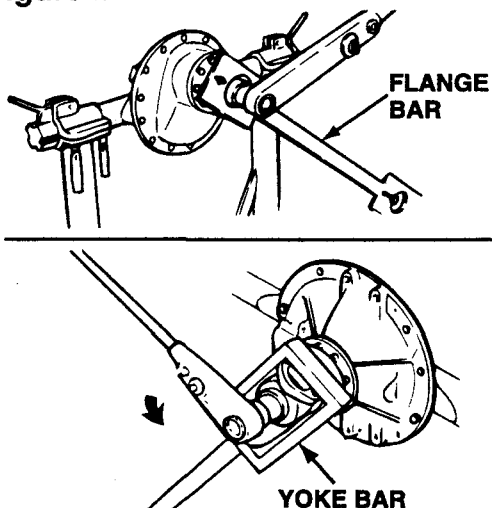
Removing the Yoke or Flange Assembly

WARNING

Do not work under a vehicle supported only by jacks. Jacks can slip or fall over and cause serious personal injury. Support the vehicle with safety stands and/or block all the wheels that remain on the floor to prevent the vehicle from moving.

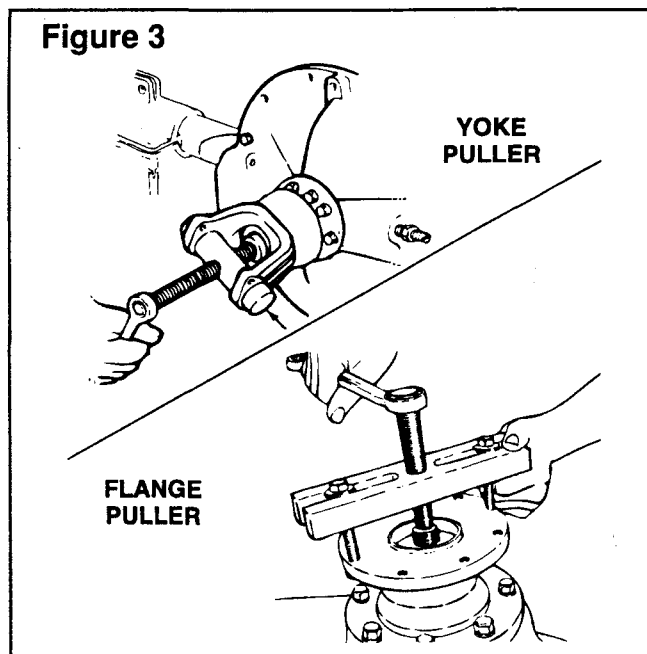
1. Put blocks in front of and behind all the wheels to prevent the vehicle from moving.
2. Disconnect the driveline universal joint from the input or output yoke or flange on the differential carrier.
3. Install a yoke or flange bar on the input or output yoke or flange. The tool will hold the components in a stationary position. Remove the yoke or flange nut and washer. **Figure 2.**

Figure 2



4. Remove the yoke or flange bar from the carrier.
5. Remove the yoke or flange from the carrier using the correct puller tool. **Figure 3.**

Figure 3



NOTE

The POSE seal will remain on the yoke or flange as the part is removed from the carrier.

6. After you remove the yoke or flange from the drive pinion, if a POSE seal is on the hub, remove it by pulling it off the hub by hand.

Clean and Inspect Parts

WARNING

Be careful when using cleaning solvents. Follow the instructions supplied by the solvent manufacturer for safe use to avoid serious personal injury.

1. Use a safe cleaning solvent and a clean shop towel to clean the ground and polished surface of the yoke or flange hub (journal). Do not use abrasive cleaners, towels, or scrubbers to clean yoke or flange. Do not attempt to polish the yoke or flange surface. **DO NOT USE GASOLINE.**
2. Inspect the hub or journal of the yoke or flange for wear or damage (this includes wear rings caused by the triple-lip seal). Any type of damage in this area will cause the triple-lip seal (main seal) to leak or the POSE seal will not seat correctly on the hub. If the yoke or flange is damaged, replace with a new part.

CAUTION

Do not touch the lips of the inner diameter of the seal. Touching the inner surface of the seal will contaminate the surface and may result in causing a leak between the shaft and seal.

3. Clean the flat outer retainer surface of the triple-lip (main seal) with a clean rag where the new POSE seal lips will seat. Use the same cleaning materials mentioned in step 1.
4. Inspect the triple-lip seal (main seal), assembled in the bearing cage, for damage. The inspection should include the flat surface of the outer retainer where the POSE seal lips will seat.

NOTE

If the original triple-lip seal (main seal) is damaged, always replace it with a new triple-lip design seal.

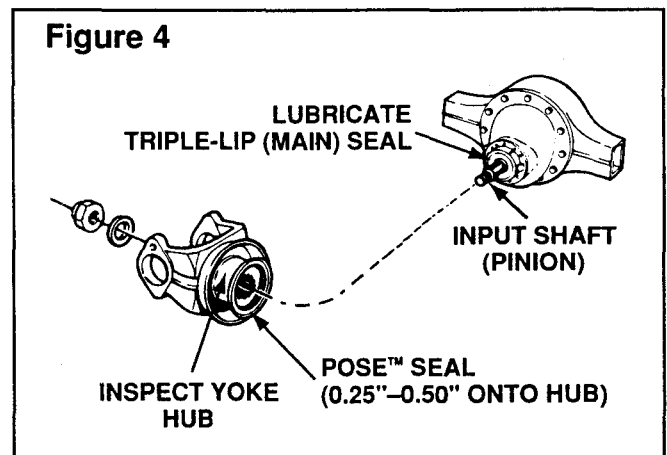
Installing the POSE Seal

1. Apply the same lubricant used in the axle housing to the hub of the yoke or flange.
2. Make sure the lips of the POSE seal and the outer retainer of the triple-lip seal (main seal) are clean and free from dirt and particles that may contribute to oil leakage between the seals after carrier to driveline assembly.

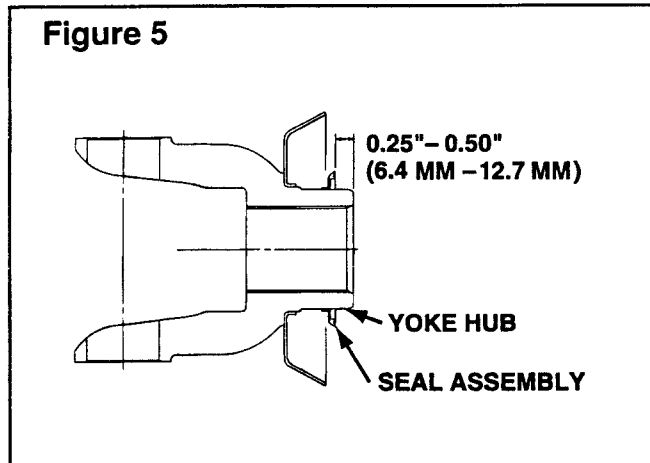
NOTE

The POSE seal will position itself correctly as the yoke or flange is pressed on the shaft.

Figure 4



3. Install the POSE seal on the hub of the yoke or flange by hand. The lips of the seal must face toward the end of the hub (opposite shoulder). Slide the POSE seal on the hub until the lips are 0.25 inch–0.50 inch (6.4 mm–12.7 mm) from the end of the hub. **Do not install the POSE seal against the shoulder.** Figure 5.



NOTE

The yoke must be completely seated before tightening pinion nut to the input shaft.

General Yoke and U-Joint Reassembly

Install the end yoke hub capscrews by hand after seating the U-joint. Tighten the capscrews according to manufacturer's torque specifications.

NOTE

After installing the POSE™ 0.5 inches onto the yoke hub, immediately complete installation of the yoke and seal assembly to the pinion shaft. If the yoke and POSE seal remain unassembled to the pinion shaft for a long period of time, the self-positioning capabilities of the seal could be hindered and contamination or damage to the POSE seal system may occur.

4. Before you install the yoke or flange on the shaft, again apply the same lubricant used in the axle housing to the hub.
5. Install the yoke or flange using the correct procedure.



Rockwell Heavy Vehicle Systems, Inc.
2135 West Maple Road
Troy, MI 48084 U.S.A.
800-535-5560
<http://www.heavyvehicle.rockwell.com>

Information contained in this publication was in effect at the time the publication was approved for printing and is subject to change without notice or liability. Rockwell Heavy Vehicle Systems, Inc., reserves the right to revise the information presented or discontinue the production of parts described at any time.

© Copyright 1997
Rockwell Heavy Vehicle Systems, Inc.
All Rights Reserved

Printed in the U.S.A.

MM-9674
Revised 2/97
16579/24240