

Service Parts Instructions



WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Take care when you use Loctite® to avoid serious personal injury. Follow the manufacturer's instructions to prevent irritation to the eyes and skin. If Loctite gets into your eyes, flush them with water for 15 minutes. Have your eyes checked by a doctor as soon as possible.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Serious personal injury can result.

This bulletin provides instructions to install Meritor's Easy Service® yoke onto RC-26-633 Series bus and coach planetary drive axles using Kit 1646. To order this kit, call ArvinMeritor's Commercial Vehicle Aftermarket at 888-725-9355.

For complete maintenance and service instructions for Meritor's RC-26-633 Series bus and coach planetary drive axle, refer to Maintenance Manual 23E. To order this publication, call ArvinMeritor's Customer Service Center at 800-535-5560 or visit the Tech Library on ArvinMeritor's web site.

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Kit 1646

Part Name	Qty.	Part Number
Yoke/Deflector Assembly	1	17TYS31-66A
Seal, Oil	1	SA75503729
Nut, Pinion	1	SA88140038

Installing Meritor's Easy Service® Yoke Onto RC-26-633 Series Bus and Coach Planetary Drive Axles

Kit 1646

Disassembly

Remove the Yoke from the Axle Pinion Shaft

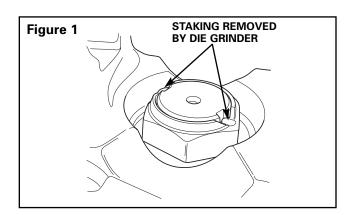
- 1. Park the vehicle on a level surface and apply the parking brakes.
- Place blocks under the wheels of the axle not being serviced to keep the vehicle from moving.
- 3. Remove the drive shaft. Refer to the bus manufacturer's instructions.



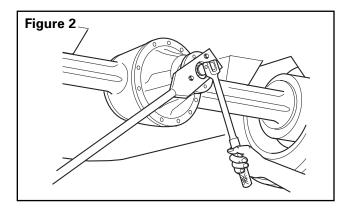
CAUTION

Use a die grinder to remove the two flange stakes at the top of the pinion shaft nut. Do not use a chisel and hammer. Damage to the pinion shaft can result.

4. Before you remove the pinion shaft nut, check for the locations of the two flange stakes at the top of the nut. Use a die grinder to carefully remove the flange stakes without damaging the pinions threads or stem. Do not use a chisel and hammer. **Figure 1**.



- 5. Install a flange or yoke bar to hold the yoke stationary while you are removing it. **Figure 2**.
- 6. Loosen the yoke nut with a breaker bar and socket or an impact wrench. Once the nut is loose, remove it by hand, if possible.
 - If you use an impact wrench: Use the wrench only to loosen the yoke nut. Do not allow the nut to spin against the end of the shaft. Damage to the lead threads on the shaft can result.





CAUTION

Use a yoke puller to loosen and remove the yoke or flange. Do not use a hammer or mallet, which can damage components and cause runout that can affect alignment.

- 7. Remove the yoke.
 - If the yoke is tight on the pinion shaft: Use a yoke puller.
- 8. Remove the pinion shaft oil seal.

Prepare Parts for Assembly

- Clean the seal bore of any dirt or contaminants.
- 2. Inspect the seal journal surface on the new yoke for contaminants or damage.
 - If the seal journal surface is dirty: Clean the surface thoroughly to remove all contamination.
 - If the seal journal is damaged: Resurface the seal journal or replace the yoke.

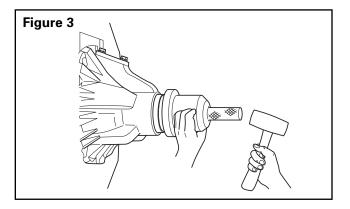
Assembly

Install Meritor's Easy Service® Yoke Onto the Axle Pinion Shaft

NOTE:

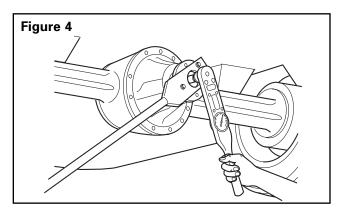
If tool 5088 is not available, you can construct a similar tool using the drawing in the Specifications section. **Figure 5**.

1. Use tool 5088 to install the pinion shaft oil seal into the carrier housing. **Figure 3**.



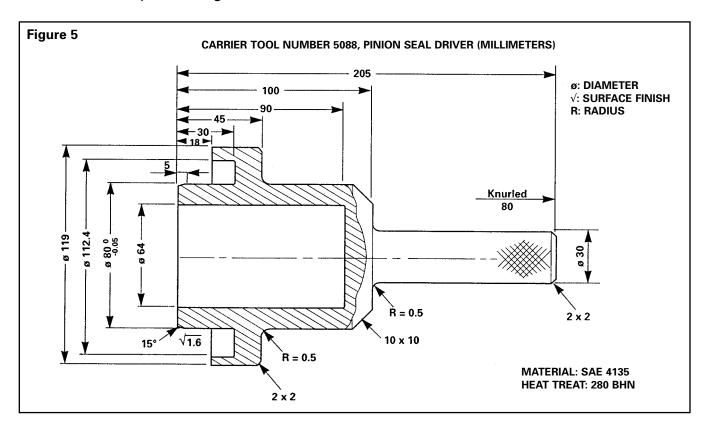
- 2. Apply a thin coating of grease or oil to the seal journal on the yoke. Push the yoke onto the pinion shaft by hand. Take care that you don't damage the seal.
- 3. Apply Permatex® 80045 sealant to the pinion threads and the underside of the flange nut. Verify that the parking brakes are set before tightening the nut.
- 4. Install the washer and nut onto the pinion shaft. Thread the nut several turns by hand. Tighten the nut with a wrench. Install a yoke flange or yoke bar onto the yoke to keep it from turning.

- 5. Tighten the nut to 885 to 1032 lb-ft (1200-1400 N•m) with 950 lb-ft (1289 N•m) as the nominal torque reading. Use a hammer and small chisel to stake the nut to the pinion shaft in two places. **Figure 4**.
- 6. Fill the carrier and axle with GL5, SAE80W/90 oil for ambient temperatures down to -15°F (-26°C). Use GL5, SAE75W/90 oil for ambient temperatures down to -40°F (40°C). Refer to Maintenance Manual 23E for the correct fill procedure.
- 7. Install the driveshaft. Refer to the bus manufacturer's instructions. Test drive the vehicle before returning it to service.



Special Tool

Use the dimensions below to construct a tool similar to 5088 for your use. Figure 5.







Commercial Vehicle Systems

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