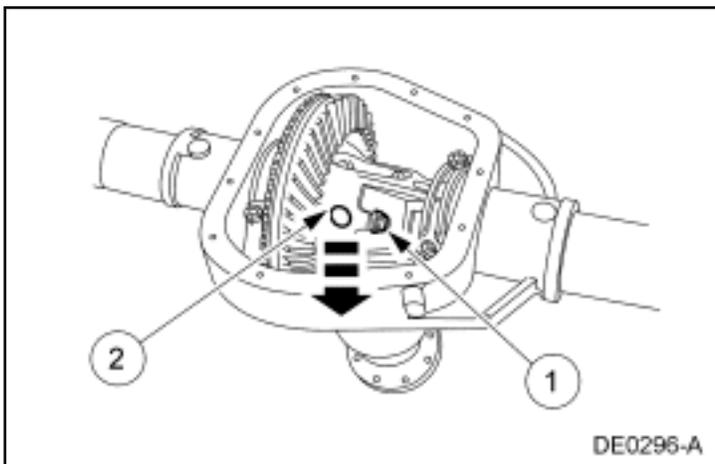|	
SECTION 205-02B: Rear Drive Axle/Differential — Ford 9.75-Inch Ring Gear	2000 F-150 Workshop Manual
IN-VEHICLE REPAIR	Procedure revision date: 06/17/1999

Axle Shaft

Removal

1. ⚠️ **WARNING: The electrical power to the air suspension system must be shut off prior to hoisting, jacking or towing an air suspension vehicle. This can be accomplished by turning off the air suspension switch located in the RH kick panel area. Failure to do so can result in unexpected inflation or deflation of the air springs, which can result in shifting of the vehicle during these operations.**
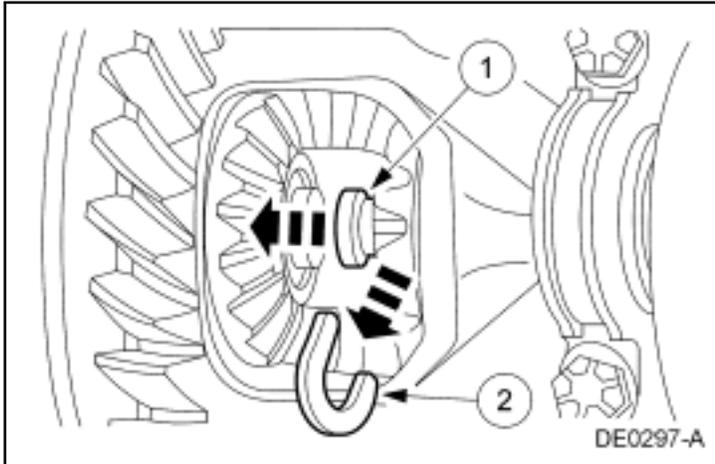
   Raise and support the vehicle.

2. Remove the wheel and tire assembly.

3. Remove the differential housing cover (4033).
   - Drain the lubricant. For additional information, refer to Differential Housing Cover in this section.

4. Remove the brake calipers and discs.

5. Remove the differential pinion shaft (4211).
   1. Remove and discard the differential pinion shaft lock bolt.
   2. Remove the differential pinion shaft.

DE0296-A

6. ⚠️ **CAUTION: Do not damage the rubber O-rings in the axle shaft grooves.**
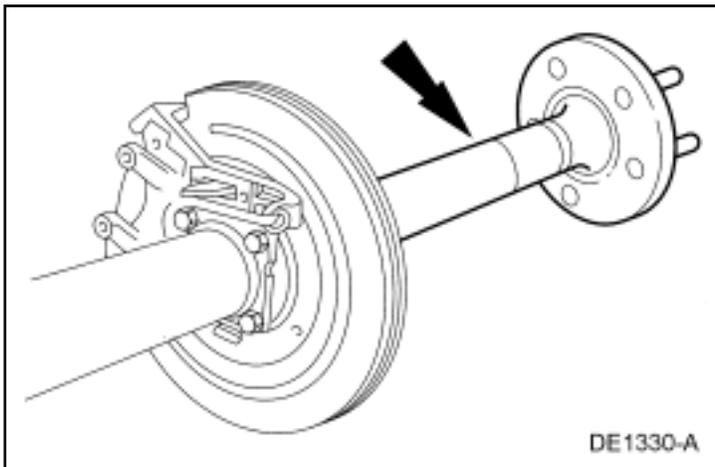
   Remove the U-washers (4N237).
   1. Push the axle shafts (4234) inboard.
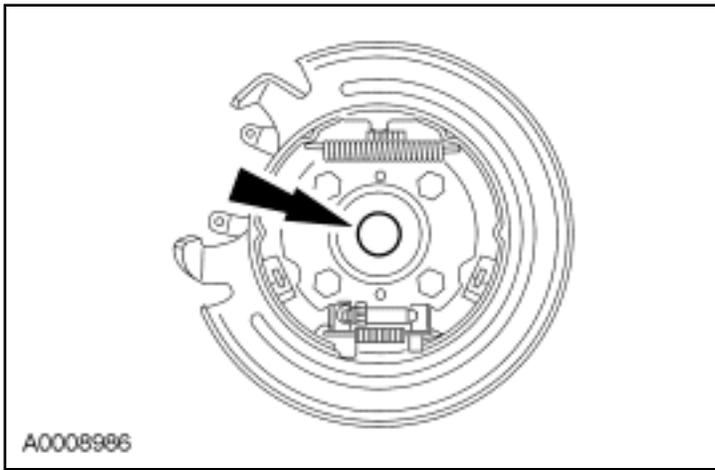   2. Remove the U-washers.

7. ⚠️ **CAUTION: Do not damage the wheel bearing oil seal (1177).**

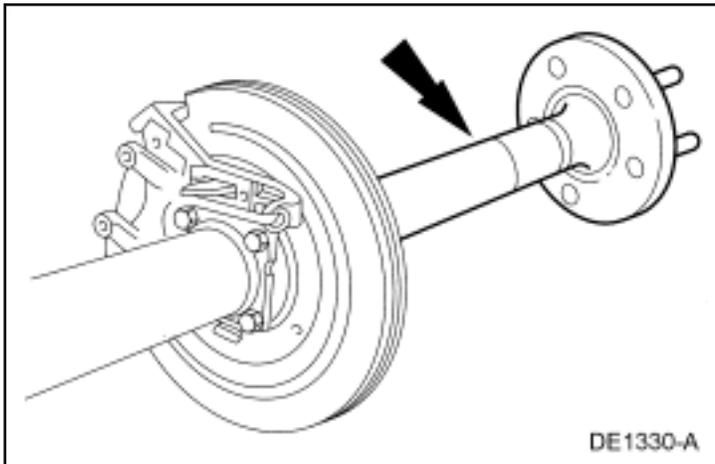   Remove the two axle shafts.

Installation

1. Lubricate the lip of the wheel bearing oil seal.
   - Use Premium Long-Life Grease XG-1-C or equivalent meeting Ford specification ESA-M1C75-B.

A0008986

2. ⚠ **CAUTION: Do not damage the wheel bearing oil seal.**
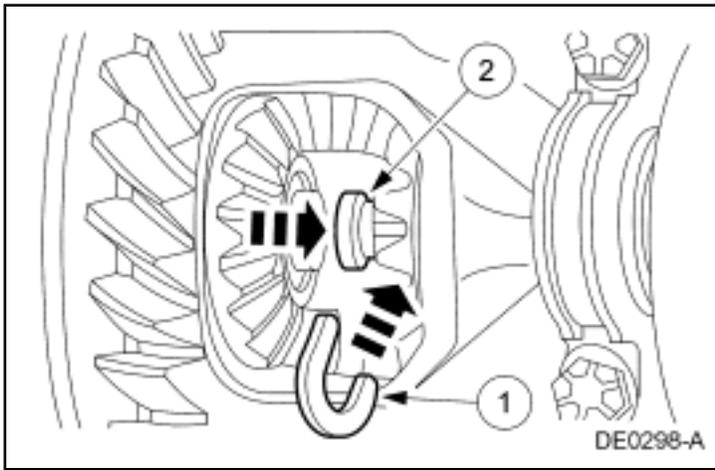
   Install the two axle shafts.

DE1330-A

3. ⚠ **CAUTION: Do not damage the rubber O-rings in the U-washer grooves.**
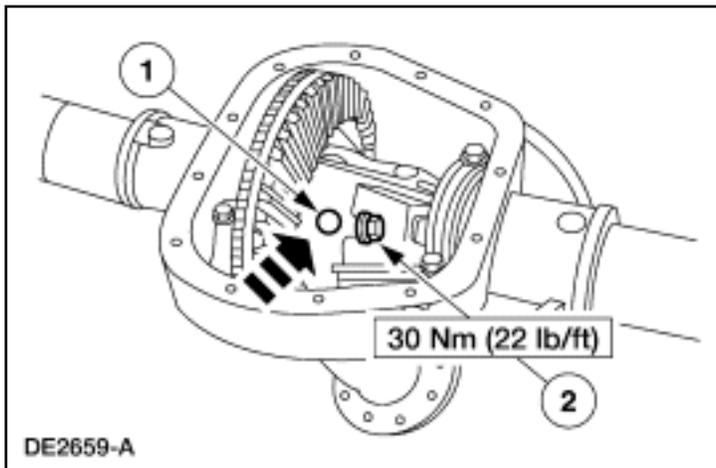
   Install the U-washers.
   1. Position the two U-washers on the button ends of the axle shafts.
   2. Pull the axle shafts outward.

DE0298-A

4. **NOTE:** If a new pinion shaft lock bolt is unavailable, coat the threads with Threadlock and Sealer EOAZ-19554-AA or equivalent meeting Ford specifications WSK-M2G351-A5 prior to installation.

   Install the differential pinion shaft.
      1. Align the hole in the differential pinion shaft with the case lock bolt hole.
      2. Install a new differential pinion shaft lock bolt.
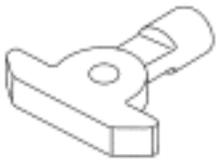

30 Nm (22 lb/ft)

DE2659-A

5. Install the brake discs.

6. Install the differential housing cover and fill the rear axle housing (4010) with the correct amount of specified lubricant.

7. Install the tire and wheel assembly. For additional information, refer to Section 204-04.

8. Lower the vehicle.

Rear Wheel Bearing and Axle Shaft Oil Seal

Special Tool(s)

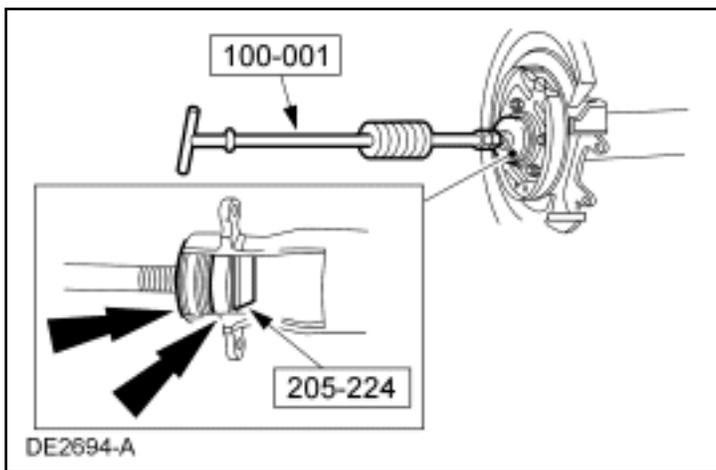|	
ST2035-A	Remover, Axle Bearing 205-224 (T85T-1225-AH)
ST2027-A	Installer, Axle Oil Seal 205-381 (T97T-1177-A)
ST1322-A	Installer, Axle Bearing 205-382 (T97T-1225-A)
ST1326-A	Adapter For 303-224 (Handle) 205-153 (T80T-4000-W)
ST1185-A	Slide Hammer 100-001 (T50T-100-A)

Removal

1. Remove the axle shaft (4234). For additional information, refer to [Axle Shaft](#) in this section.

2. **NOTE:** If the wheel bearing oil seal is leaking, the axle housing vent may be plugged with foreign material.

   NOTE: If only a new seal needs to be installed, use care to avoid damaging the seal bore.
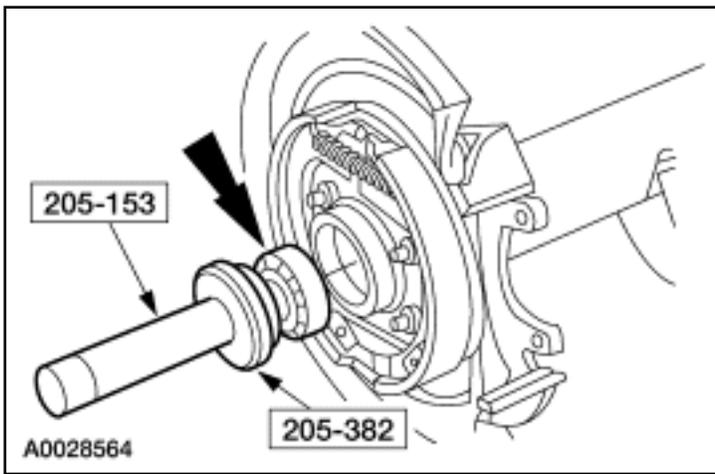
   Using a suitable seal remover, remove the rear axle shaft oil seal. Discard the oil seal.

3. Inspect the rear wheel bearing and axle shaft for wear or damage.

4. If necessary, using the special tools, remove the rear wheel bearing.
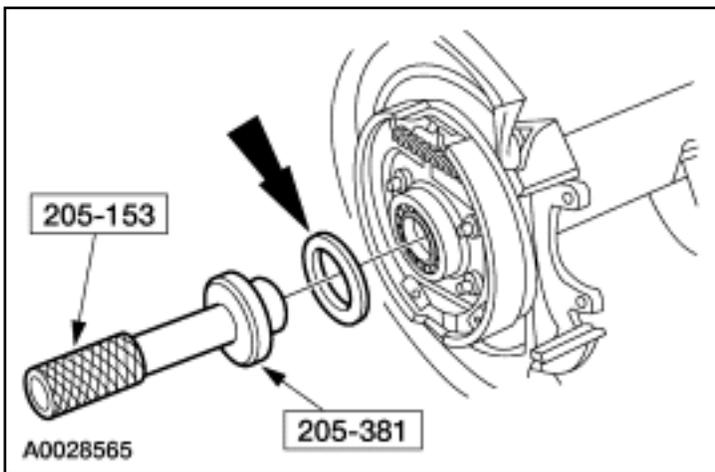

Installation

1. Lubricate the new rear axle bearing.
   - Use SAE 75W-140 High Performance Rear Axle Lubricant F1TZ-19580-B or equivalent meeting Ford specification WSL-M2C192-A.

2. Using the special tools, install the rear wheel bearing.

3. Lubricate the lip of the new wheel bearing oil seal.
   - Use Premium Long-Life Grease XG-1-C or equivalent meeting Ford specification ESA-M1C75-B.

4. Using the special tools, install the wheel bearing oil seal

5. Install the axle shafts. For additional information, refer to Axle Shaft in this section.