# **REAR AXLE**



## **GENERAL SERVICE PROCEDURES**

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The procedures outlined in this section are all performed with the axle mounted in the vehicle; This includes removal and installation procedures for the standard and Trac-Lok differential.

#### **AXLE IDENTIFICATION**

The axle ratio and the ring gear/pinion gear tooth combination is stamped on a tag attached to the differential housing cover (A).

Drive the vehicle to bring the axle lubricant to normal operating temperature.

Raise the vehicle.

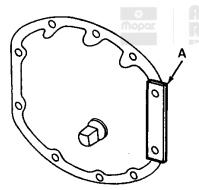
Remove the axle housing fill plug.

Remove the old lubricant from the housing with a suction gun.

Refill the axle with 1.2 liters (2.5 pints) of the specified lubricant.

Install the fill plug.

Lower the vehicle.



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#### **AXLE SHAFT**

#### **Axle Shaft Removal**

Raise the vehicle.

Remove the wheel and brake drum.

Remove the nuts that attach the guide plate (2), seal retainer (3) and brake support plate to the axle flange.

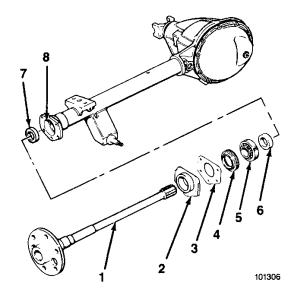
#### **AXLE LUBRICANT CHANGE**

**NOTE:** The recommended lubricant for standard and Trac-Lok rear axles is JEEP axle lubricant, or an equivalent SAE 75W-90, API Grade GL 5 gear lubricant.

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Remove the axle shaft (1) with slide hammer J 2619-01 and puller J 21579.

Lubricate the axle bearing (5) with JEEP wheel bearing lubricant or an equivalent EP-rated bearing lubricant.

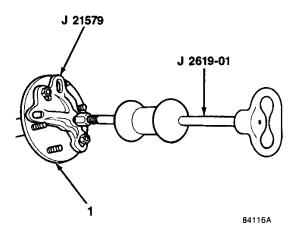
Install the axle shaft.

Position the brake support plate, seal retainer (3) and guide plate (2) on the axle flange studs and install the attaching nuts.

Tighten the guide plate/support plate attaching nuts evenly and in a cross pattern, to 43 Nem (32 ft-lbs) torque.

Install the brake drum and wheel. Tighten the wheel nuts to 102 Nom (75 ft-lbs) torque.

Lower the vehicle.



#### **Axle Shaft Installation**

Clean the bearing bore in the axle flange (8). Apply a thin coat of bearing lubricant to the bore after cleaning.

#### **AXLE SHAFT BEARING AND RETAINER**

#### **Bearing and Retainer Replacement**

Remove the axle shaft (1).

Mount the axle shaft in a vise.

Drill a 6 mm (1/4 in) diameter hole in the bearing retaining ring (6). Drill approximately three quarters of the way through the ring.

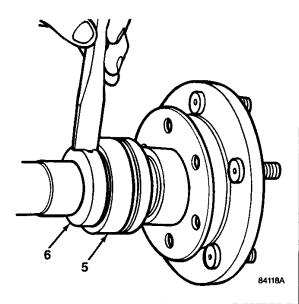
Cut the ring (6) with a chisel and remove it from the shaft.



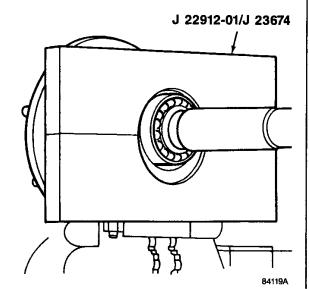
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Remove the bearing (5) with an arbor press and tool J 22912-01 or J 23674.



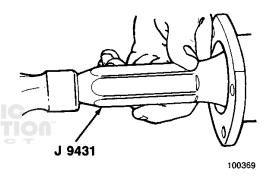
Remove oil seals (4) and (7) if replacement is necessary.

Remove the guide plate (2) if the seal in the plate is to be replaced.

Clean the axle shaft seal and bearing surfaces.

Install the guide plate (2), seal retainer (3) and outer seal (4) on the shaft.

Install the inner seal (7) with tool J 9431.



Lubricate the replacement bearing with JEEP wheel bearing lubricant or an equivalent EP-rated bearing lubricant.

Install the replacement bearing (5) on the shaft with an arbor press and tool J 22912-01 or J 23674.

Install a replacement bearing retaining ring (6) on the shaft.

Apply a thin coating of bearing lubricant to the axle flange bearing bore.

Install the axle shaft.

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# **GENERAL SERVICE PROCEDURES**



### **AXLE SHAFT OIL SEALS**

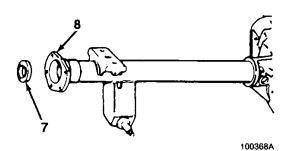
#### Oil Seal Replacement

NOTE: Three seals are used; The inner seal (7), the outer seal (4) and a third seal in the guide plate (2). The guide plate seal is not removable. If damaged, the seal and guide plate must be replaced as an assembly.

Remove the axle shaft and bearing as outlined in this section.

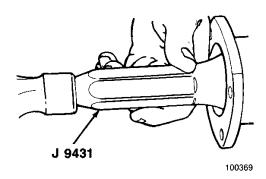
Remove the outer seal (4) and guide plate (2) from the shaft.

Remove the inner seal (7) from the bore in the axle flange.



Lubricate the replacement seal lips with wheel bearing lubricant.

Install the replacement inner seal (7) with tool J 9431.



Install the replacement guide plate and seal (2) on the shaft. Then install the original seal retainer (3) and the replacement outer seal (4) on the shaft.

Lubricate the axle bearing (5) with JEEP bearing lubricant or an equivalent EP-rated bearing lubricant.

Install the wheel bearing (5) and a replacement bearing retaining ring (6) on the shaft.

Install the axle shaft.

#### **PINION SEAL**

#### **Pinion Seal Replacement**

Raise the vehicle.

Remove the rear wheels and brake drums.