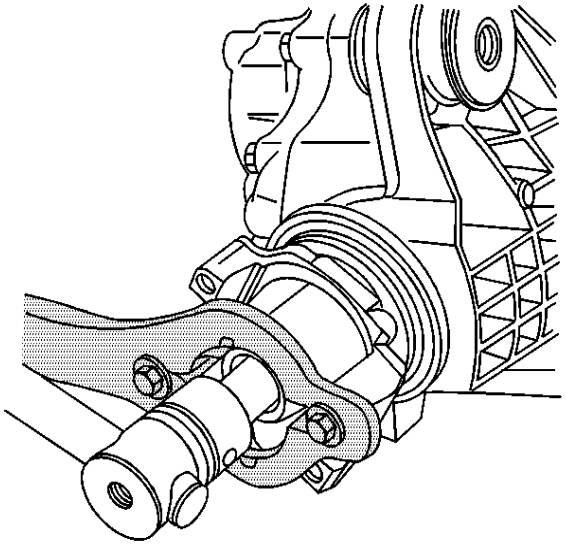
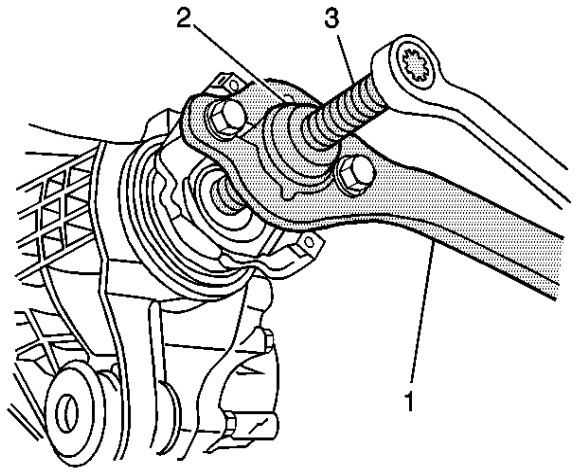


11. Install the J 8614-01 onto the pinion as shown.
12. Remove the pinion nut while holding the J 8614-01 .



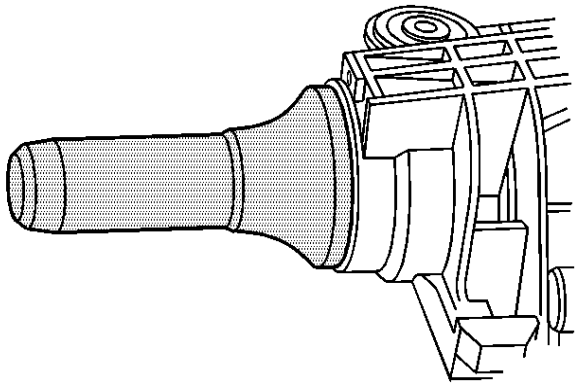
13. Install the J 8614-2 (2) and the J 8614-3 (3) into the J 8614-01 (1) as shown.
14. Remove the pinon yoke by turning the J 8614-3 (3) clockwise while holding the J 8614-01 (1).

Important

Carefully remove the oil seal from the bore. Do not distort or scratch the aluminum case.

15. Remove the oil seal using a suitable seal removal tool.

Installation Procedure



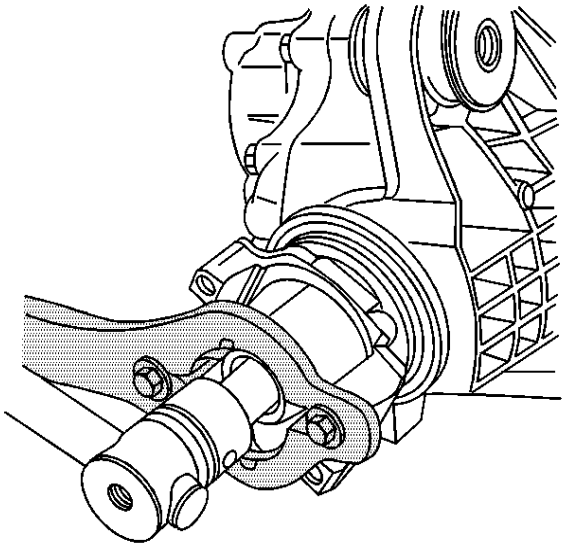
1. Install the oil seal by doing the following:
   A. Position the oil seal over the seal bore.
   B. Install the J 36366 over the oil seal.
   C. Strike the J 36366 with a hammer until the seal flange seats on the axle housing surface.

2. Apply sealant GM P/N 12346004 (Canadian P/N 10953480) or equivalent to the splines of the drive pinion yoke.
3. Install the pinion yoke.
   Align the reference marks made during removal.

Notice

Refer to Pinion Flange/Yoke Installation Notice in Cautions and Notices.

4. Seat the pinion yoke onto the pinion shaft by tapping it with a soft-faced hammer until a few pinion shaft threads show through the yoke.
5. Install the washer and a new pinion nut.



6. Install the J 8614-01 onto the pinion yoke as shown.

Notice

Refer to Fastener Notice in Cautions and Notices.

Important

If the rotating torque is exceeded, the pinion will have to be removed and a new collapsible spacer installed.

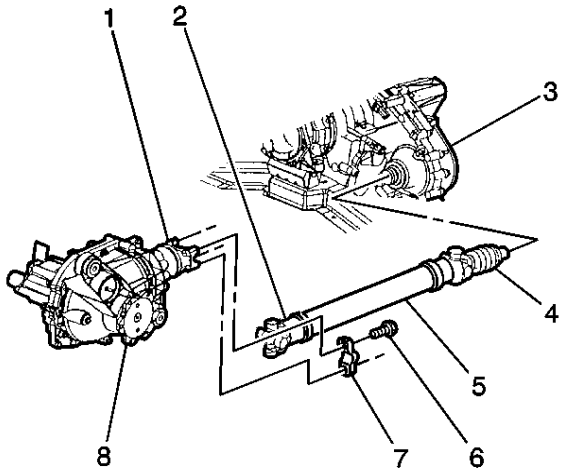
7. Tighten the pinion nut while holding the J 8614-01 .
   Tighten

   Tighten the pinion nut until the pinion end play is just taken up. Rotate the pinion while tightening the nut to seat the bearings.

8. Measure the rotating torque of the pinion using an inch-pound torque wrench.
   Compare the measurement with the rotating torque recorded earlier. **Tighten**

   Tighten the pinion nut, in small increments, as needed, until the torque required in order to rotate the pinion is 0.40-0.57 N·m (3-5 lb in) greater than the torque recorded during removal.

9. Once the specified torque is obtained, rotate the pinion several times to ensure the bearings have seated. Recheck the rotating torque and adjust if necessary.



10. Install the propeller shaft universal joint (2) to the pinion yoke (1).
    Align the reference marks made during removal.
11. Install the yoke retainers (7) and the yoke retainer bolts (6) to the pinion yoke (1).
    Tighten

Tighten the yoke retainer bolts to 25 N·m (18 lb ft).

12. Inspect the axle lubricant level, and add, if necessary. Refer to Lubricant Level Inspection - Front Drive Axle .
13. Install the differential carrier assembly shield, if equipped. Refer to Shield Replacement .
14. Install the brake calipers. Refer to Brake Caliper Replacement - Front in Disc Brakes.
15. Install the tire and wheel assemblies. Refer to Tire and Wheel Removal and Installation in Tires and Wheels.
16. Lower the vehicle.

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