

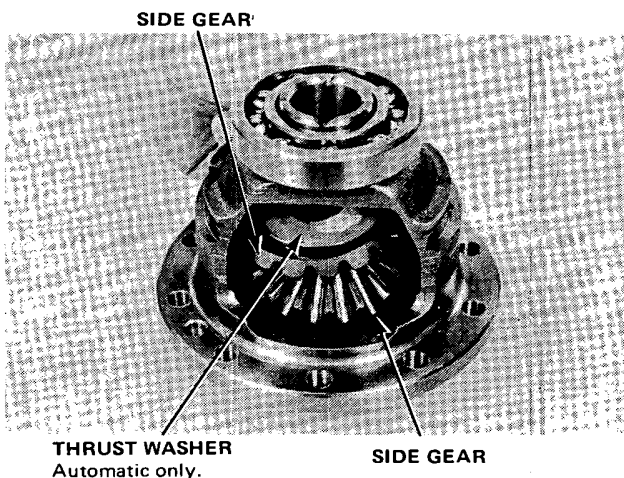
Differential

Reassembly

1. Install the side gears in differential carrier.

NOTE: On cars equipped with the Automatic transmission, install a thrust washer between each side gear and carrier.

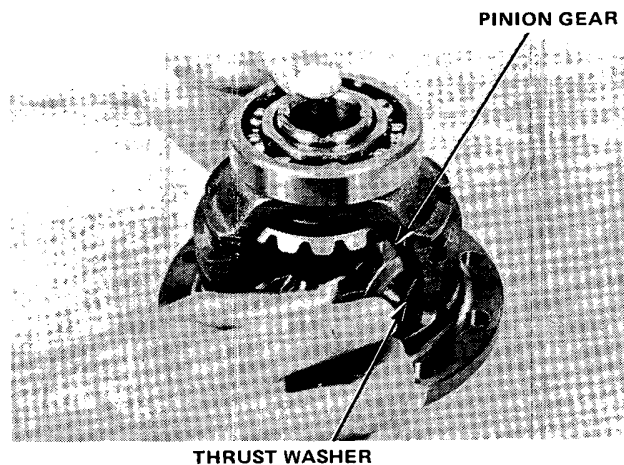
CAUTION: Coat all gears with molybdenum disulfide grease on all sides.



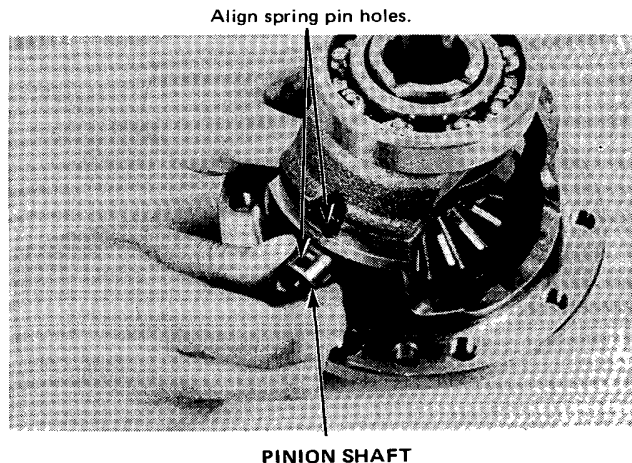
2. Set pinion gears in place exactly opposite each other in mesh with side gears, then install a thrust washer behind each one. Washers must be of equal thickness.

Thrust Washers

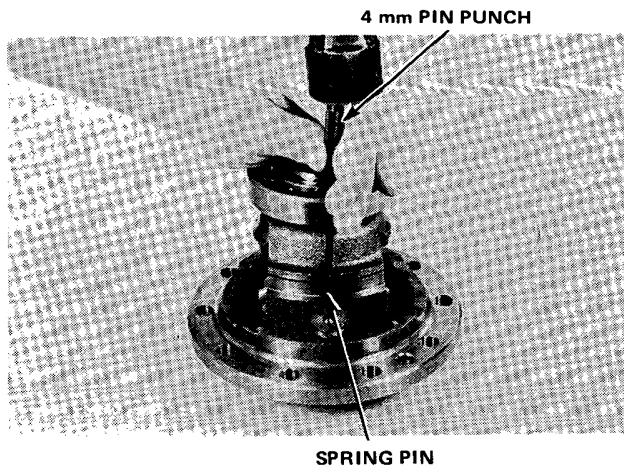
PART NUMBER	THICKNESS
41351-689-000	0.7 mm (0.028 in.)
41352-689-000	0.8 mm (0.031 in.)
41353-689-000	0.9 mm (0.035 in.)
41354-689-000	1.0 mm (0.039 in.)



3. Rotate gears as shown until shaft holes in pinion gears line up with shaft holes in carrier.
4. Insert pinion shaft and align spring pin holes in one end with matching hole in carrier.



5. Drive in a new spring pin with pin punch.



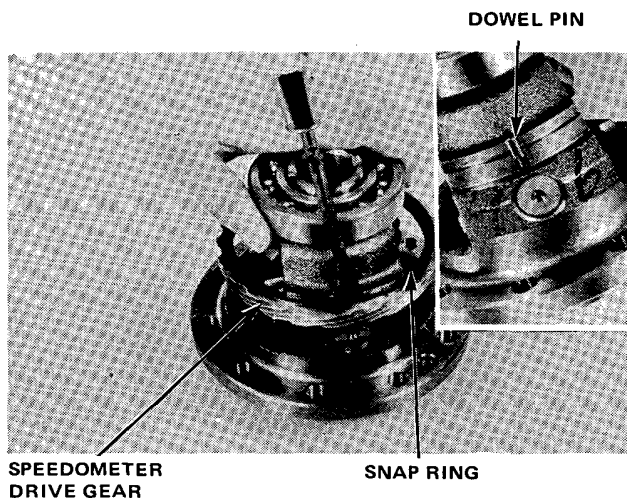
6. Check backlash of both pinion gears again.

Standard (New): 0.05–0.15 mm (0.002–0.006 in.)

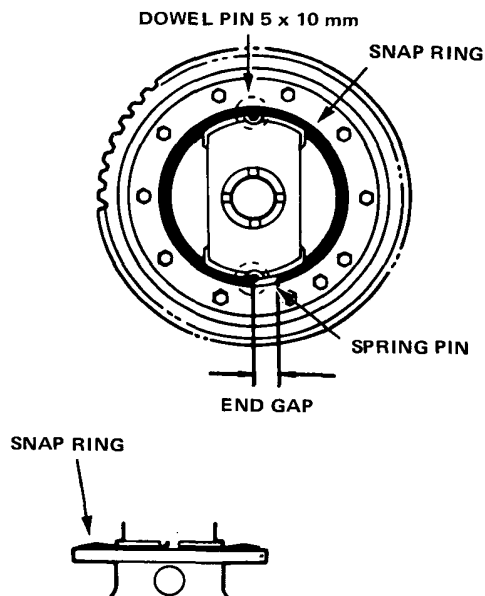
- If still out of tolerance, replace both pinion gears, then recheck backlash.
- If still out of tolerance, replace side gears, and re-check backlash.
- If still out of tolerance, replace carrier assembly.



7. Automatic Only:
Install the dowel pin and then the speedometer drive gear with its chamfer (on inside diameter) facing carrier. Secure with snap ring.

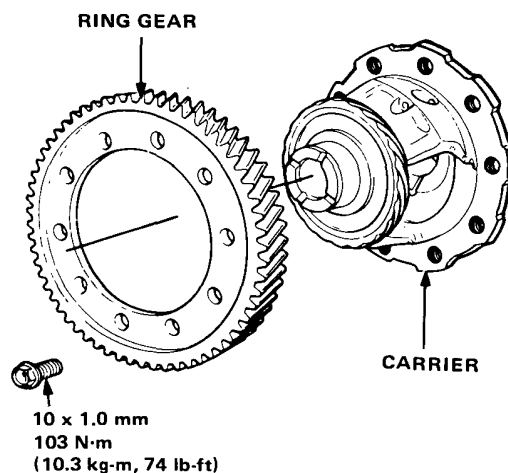


8. Automatic Only:
Align snap ring on carrier as shown.



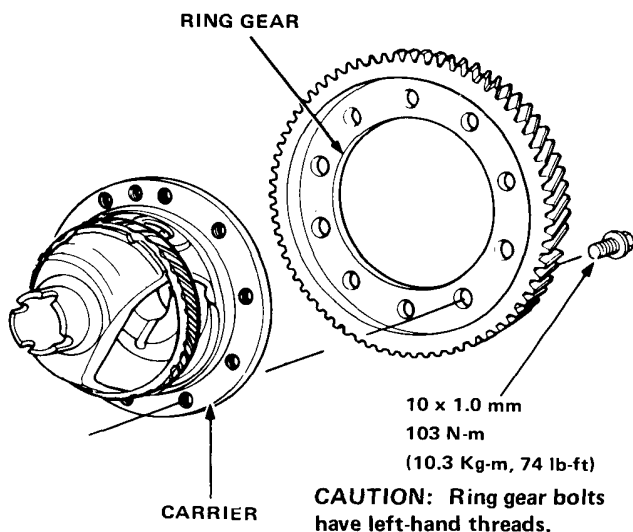
9. Install the ring gear with the chamfer on inside diameter facing the carrier.

Manual Transmission



CAUTION: Ring gear bolts have left-hand threads.

Automatic Transmission

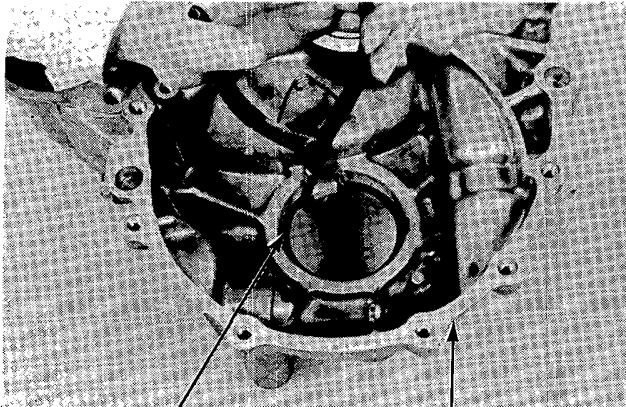


CAUTION: Ring gear bolts have left-hand threads.

Differential

Installation

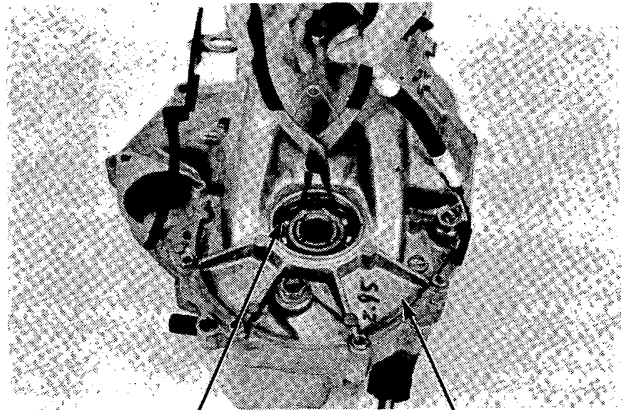
1. Automatic Only:
Install 72 mm snap ring in torque converter housing.
Do not install oil seal yet.



72 mm SNAP RING

TORQUE CONVERTER HOUSING

4. Manual Only:
Install 72 mm snap ring in transmission housing.



72 mm SNAP RING

TRANSMISSION HOUSING

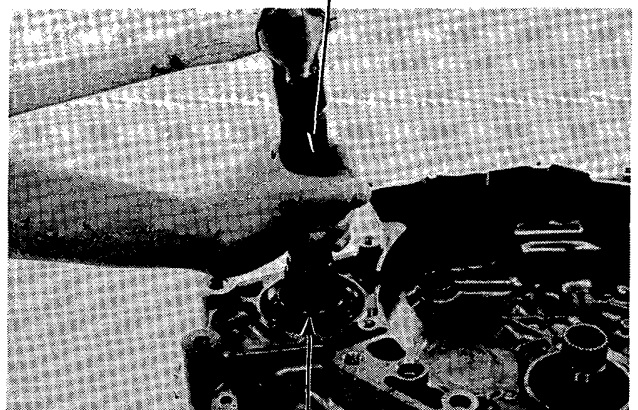
Side Clearance Measurement

NOTE: If clutch/torque converter housing, transmission housing, differential carrier, or differential bearings were replaced, the differential side clearance must be measured.

5. Seat the snap ring.
Automatic: Tap on transmission housing side of differential assembly with driver and attachment to seat 72 mm snap ring in torque converter housing.

Manual: Tap on clutch housing side of differential assembly with driver and attachment to seat 72 mm snap ring in transmission housing.

DRIVER
07749-0010000

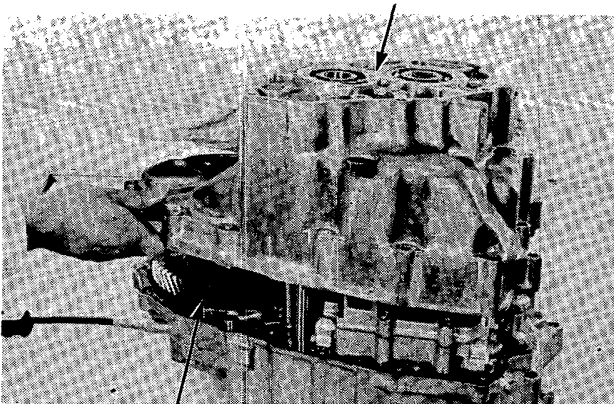


ATTACHMENT 07947-6340500

2. Install differential assembly and all transmission gear assemblies in clutch/torque converter housing. Refer to page 14-28 or page 16-43 (Automatic).
3. Install dowel pins in clutch/torque converter housing then carefully lower the transmission housing into place.

NOTE: (Automatic only) Place a new gasket on torque converter housing before installing transmission housing.

TRANSMISSION HOUSING



DIFFERENTIAL ASSY



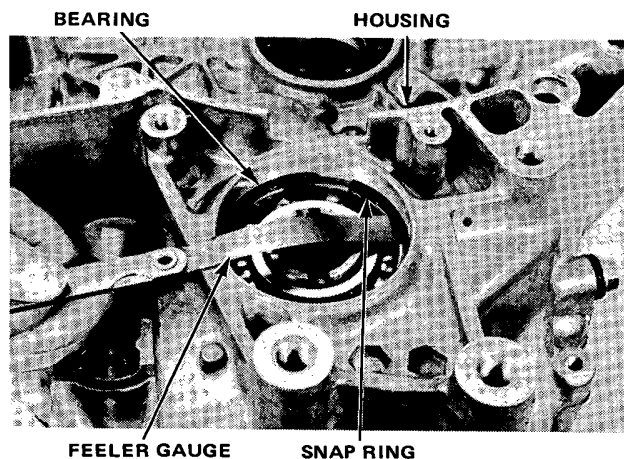
6. Turn the transmission over and seat the differential assembly.

Automatic: Tap on torque converter housing side of differential assembly with driver and attachment to seat the assembly in transmission housing.

Manual: Tap on transmission housing side of differential assembly with driver and attachment to seat the assembly in the clutch housing.

7. Measure clearance between snap ring and outer race of bearing in transmission housing (Manual), or torque converter housing (Automatic).

Side Clearance: 0.15 mm (0.006 in.) Max.



8. If out of limits, select new snap ring from following table and install. Repeat Steps 6-8.

Part Number	Thickness
90414-634-000	2.45 mm (0.096 in.)
90415-634-000	2.55 mm (0.100 in.)
90416-634-000	2.65 mm (0.104 in.)
90417-634-000	2.75 mm (0.108 in.)
90418-634-000	2.85 mm (0.112 in.)
90419-634-000	2.95 mm (0.116 in.)

9. Apply oil to new differential seals and install them in clutch/torque converter housing and transmission housing with special tools as shown.

