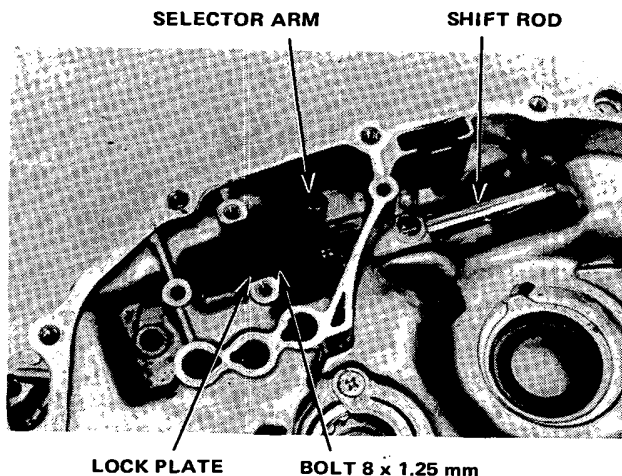


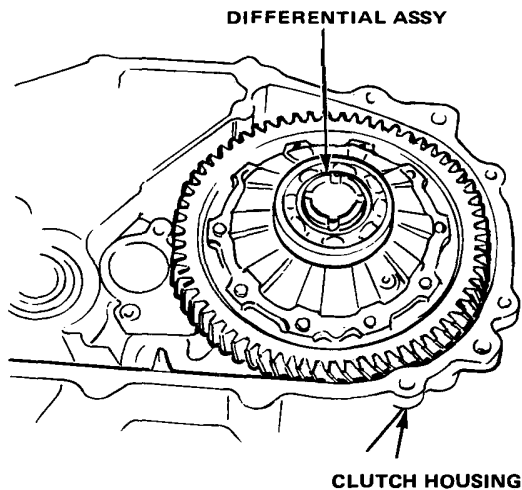
5-Speed Transmission

Transmission Reassembly

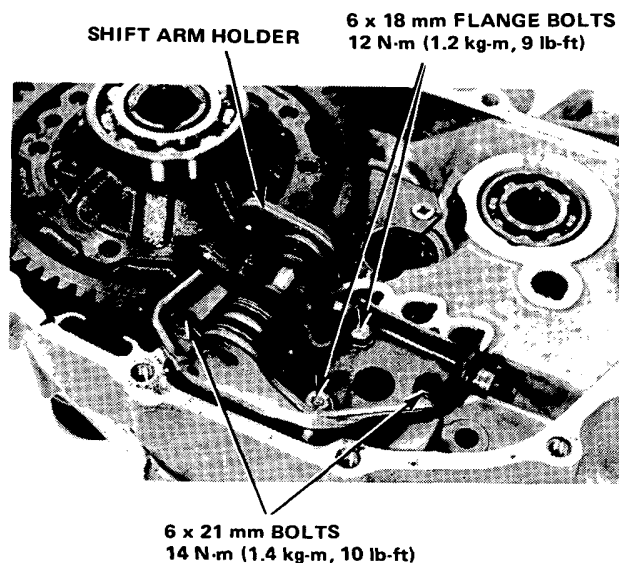
1. Clean all liquid gasket residue from the mating surfaces of transmission and clutch housings.
2. Install the shift rod, selector arm, new lock plate and bolt. Bend the lock tab on lock plate over against bolt head.



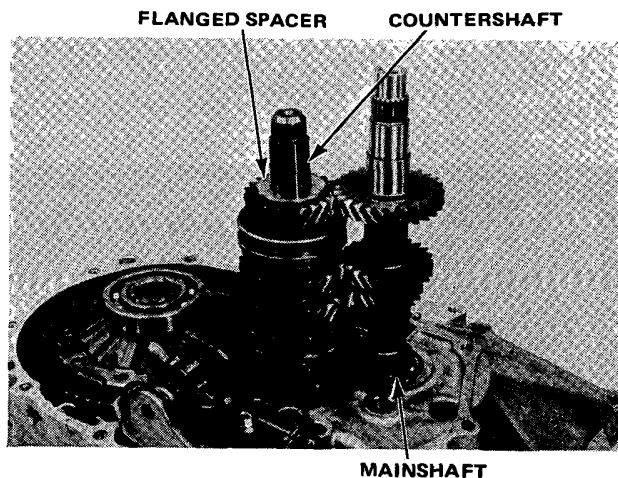
3. Install the 72 mm snap ring in the clutch housing, then install the differential (Section 17).



4. Align the shift arm with selector arm and install the shift arm holder. Install the bolts, using the correct bolt in each hole, and torque as shown.

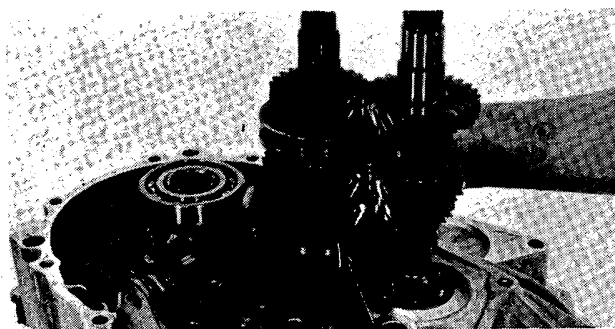


5. Install the mainshaft and countershaft as an assembly.



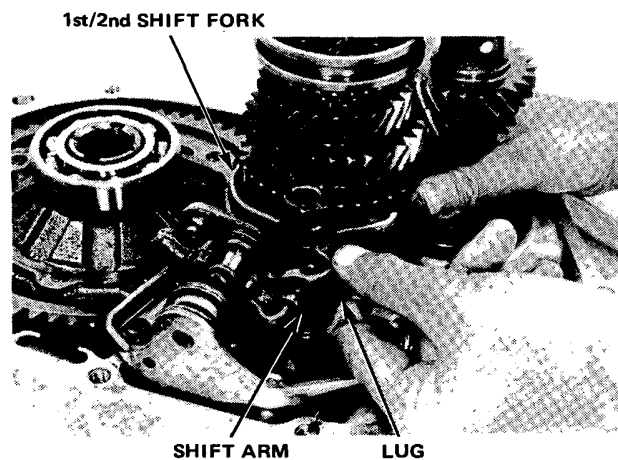


6. Lift the countershaft 1st and 2nd synchro sleeve to shift into 2nd gear.

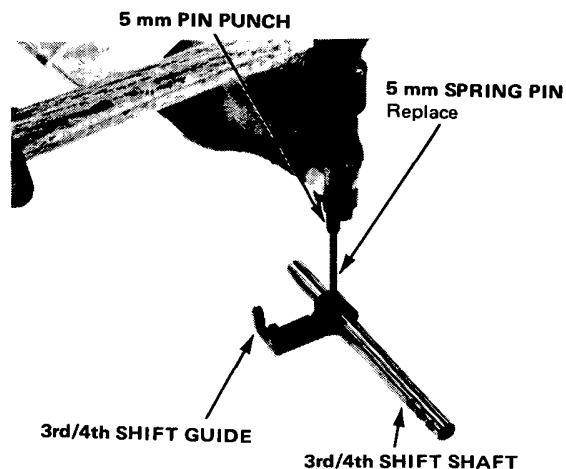


COUNTER REVERSE GEAR

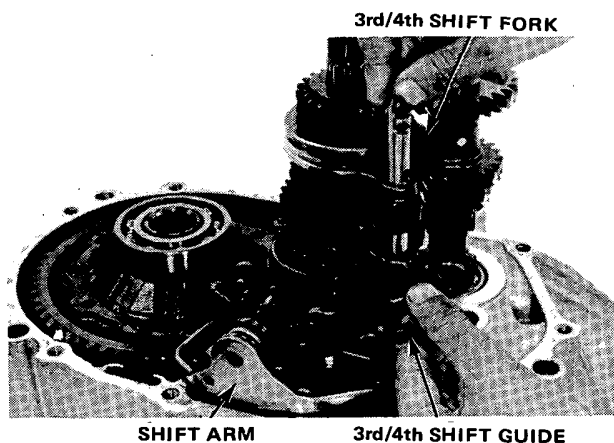
7. Install the 1st/2nd gear shift fork on synchro sleeve, then rotate into place so that lugs on back of fork fit over shift arm.



8. Insert the 3rd/4th shift fork shaft into 3rd/4th shift guide, and install the 5 mm spring pin as shown.



9. Insert the 3rd/4th shift fork shaft into 3rd/4th shift fork, then install the shift fork and hook shift guide to shift arm.

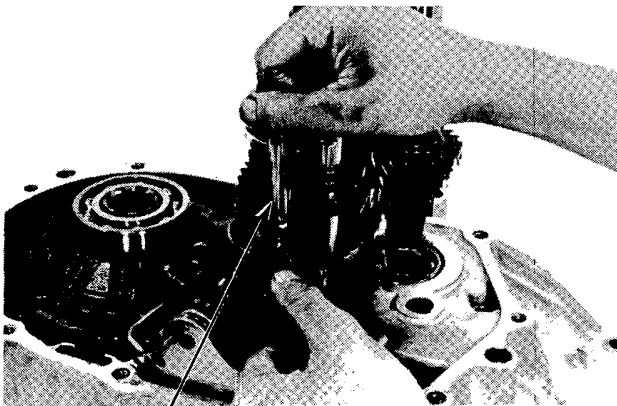


(cont'd)

5-Speed Transmission

Transmission Reassembly(cont'd)

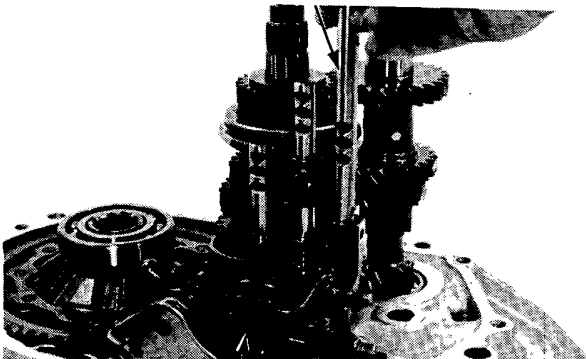
10. Install the 1st/2nd shift shaft.



1st/2nd SHIFT SHAFT

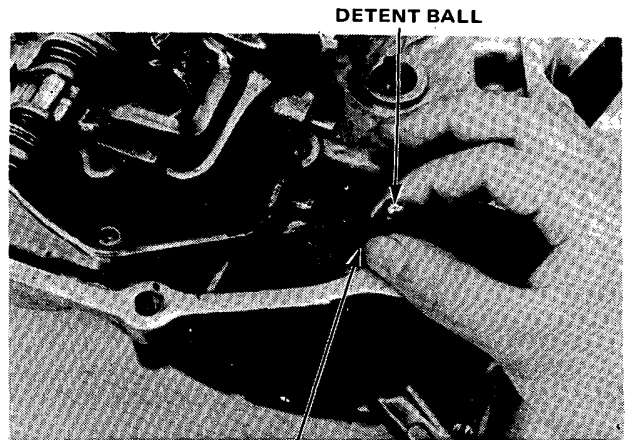
11. Hook the 5th/reverse shift guide to shift arm, then install the shift shaft.

5th/REVERSE SHIFT SHAFT



REVERSE SHIFT GUIDE

12. Install the spring and detent ball in hole in clutch housing.

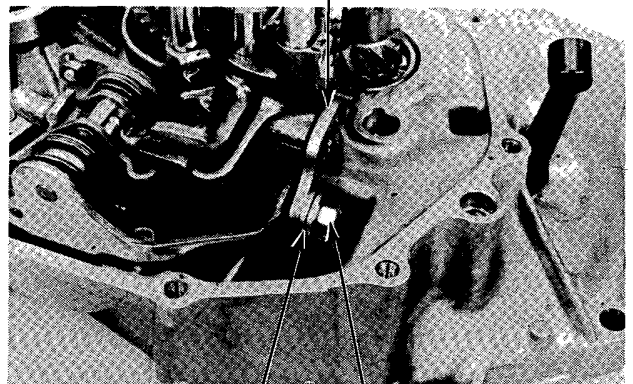


DETENT BALL

SPRING

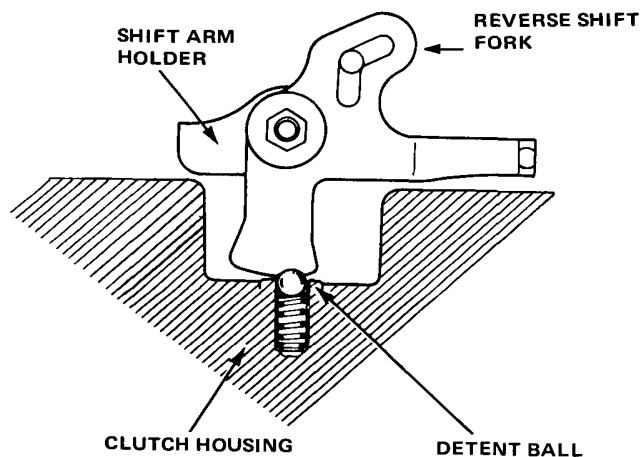
13. Install the reverse shift fork with special washer and nut.

REVERSE SHIFT FORK



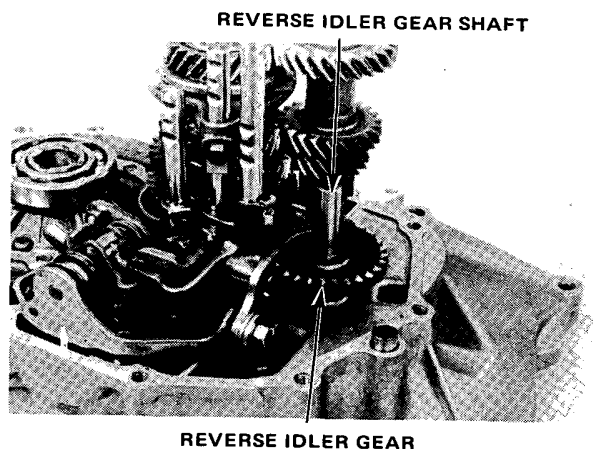
SPECIAL WASHER

NUT 24 N·m (2.4 kg-m, 17 lb-ft)

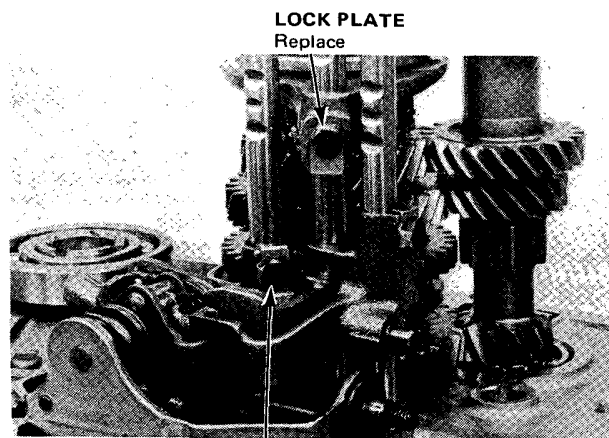


NOTE: Make sure that reverse shift fork is aligned with detent ball.

14. Install the reverse idler gear and shaft.

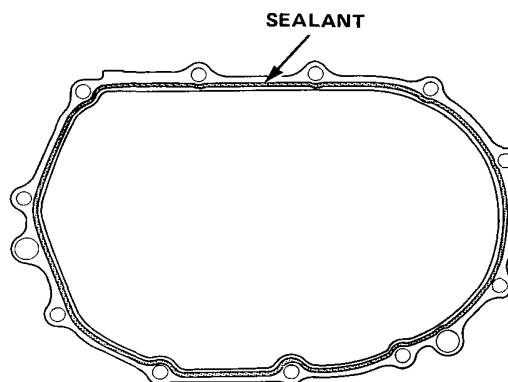


15. Install the three special bolts and lock plates on shift shafts then bend tab on each lock plate against bolt head.



NOTE: To ease reassembly, lightly oil the shift shafts, transmission shafts, and differential bearings.

16. Apply liquid gasket to the clutch housing as shown below.



NOTE: This transmission uses no gasket between the major housings; use Honda P/N 08740-99986 sealant. Assemble the housings within 20 minutes after applying the sealant and allow it to cure at least 30 minutes after assembly before filling it with oil.

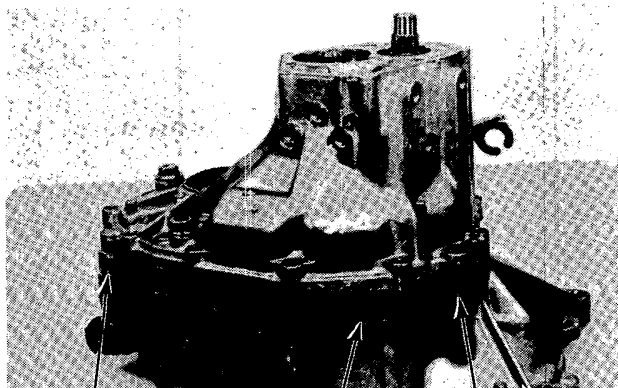
(cont'd)

5-Speed Transmission

Transmission Reassembly (cont'd)

17. Install the dowel pins on the clutch housing.

18. Install the transmission housing being careful to line up shafts. Expand countershaft bearing snap ring so that transmission housing can fall into place.



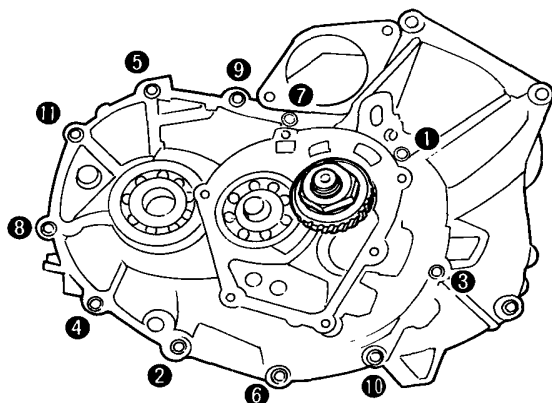
DOWEL PIN

SEALANT

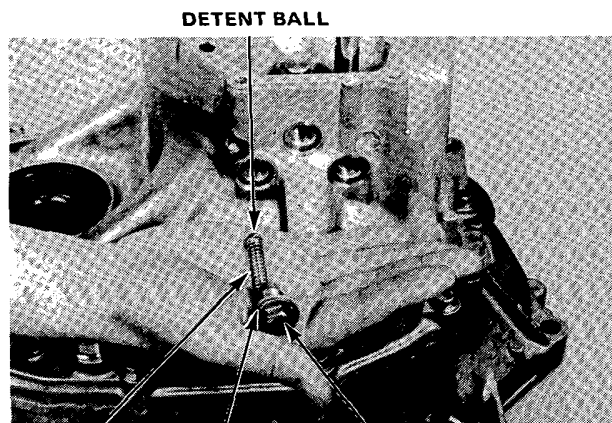
DOWEL PIN

CAUTION: Do not force installation — check for and correct any misalignment.

19. Torque bolts (8 x 1.25 mm) in sequence shown, 27 N·m (2.7 kg-m, 20 lb.ft).



20. Install the three detent balls, washers, springs, and retaining screws.



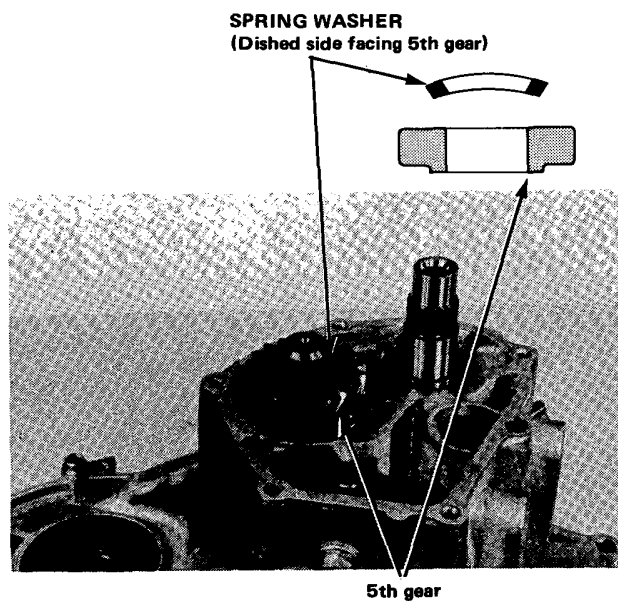
DETENT BALL

SPRING

WASHER
Replace

RETAINING SCREW
22 N·m (2.2 kg-m, 16 lb-ft)

21. Install the counter 5th gear and spring washer.

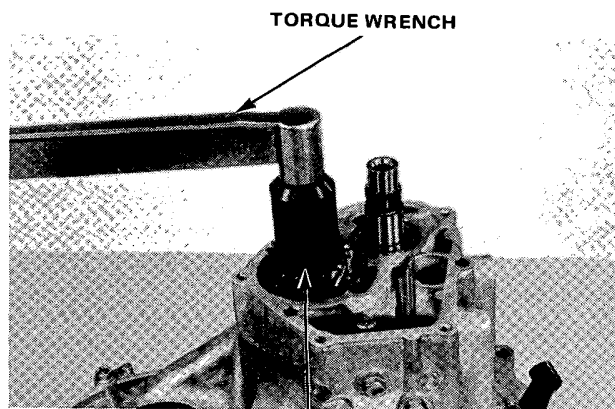


SPRING WASHER
(Dished side facing 5th gear)

5th gear

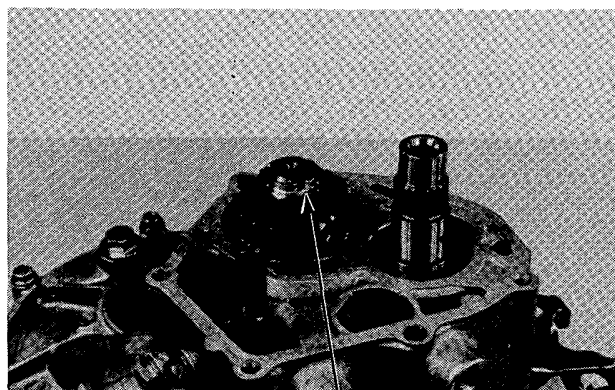


22. Install the mainshaft holder, then shift transmission into reverse.
Torque countershaft lock nut to 120 N·m (12 kg·m, 86 lb·ft), loosen, and retighten to same torque.



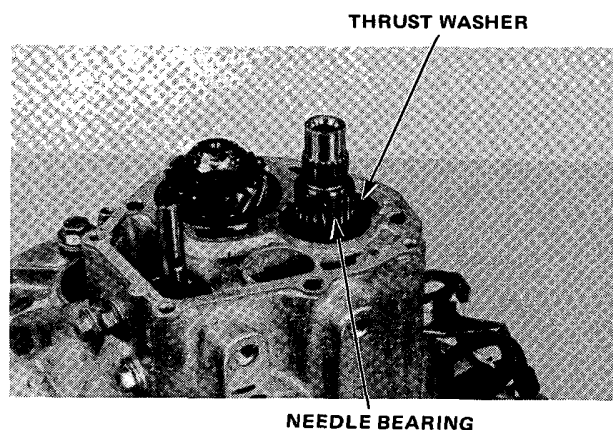
22 mm SOCKET WRENCH

23. Stake shoulder on lock nut in to slot in countershaft.



COUNTERSHAFT LOCK NUT

24. Install the needle bearing and thrust washer.

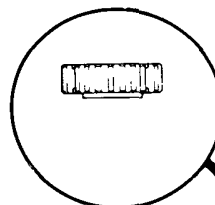


25. Install the mainshaft 5th gear synchro ring and the synchro spring.
26. Install the synchro hub and the synchro sleeve onto the shift fork. Install them onto the mainshaft.

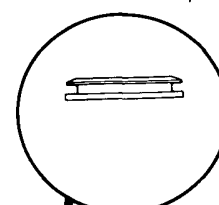
NOTE: Install the synchro hub with its raised inner shoulder facing down.

Shoulder faces down.

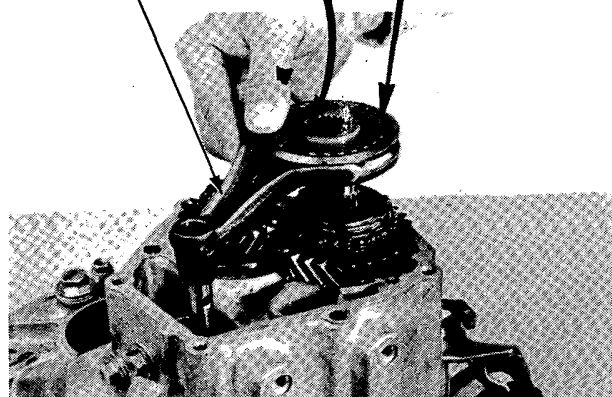
Chamfer faces up.



5th GEAR SHIFT FORK



SYNCHRO HUB



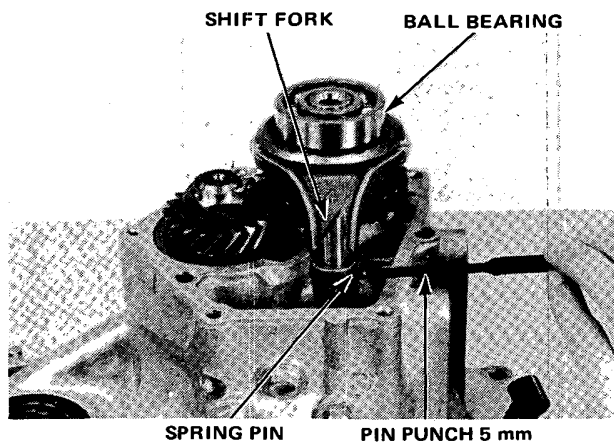
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5-Speed Transmission

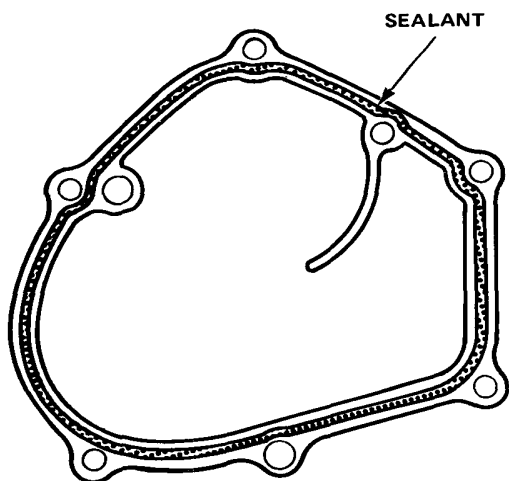
Transmission Reassembly (cont'd)

27. Install the bearing.

28. Drive the spring pin into the shift fork.

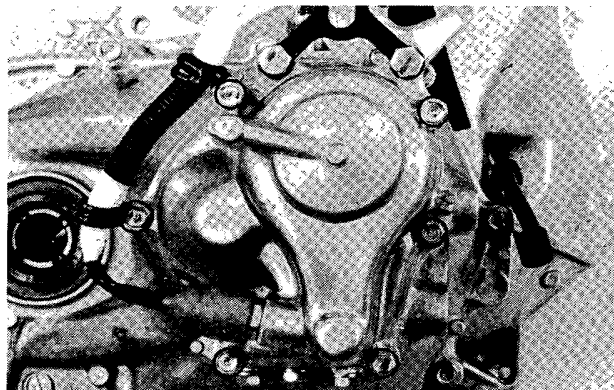


29. Apply sealant on the sealing surface of the transmission housing as shown.



NOTE: This transmission uses no gaskets between the major housings; use Honda sealant, P/N 08740-99986. Assemble the housings within 20 minutes after applying the sealant and allow it to cure for at least 30 minutes after assembly before filling it with oil.

30. Install the 5th gear housing, and torque its bolts to 12 N·m (1.2 kg-m, 9 lb-ft).

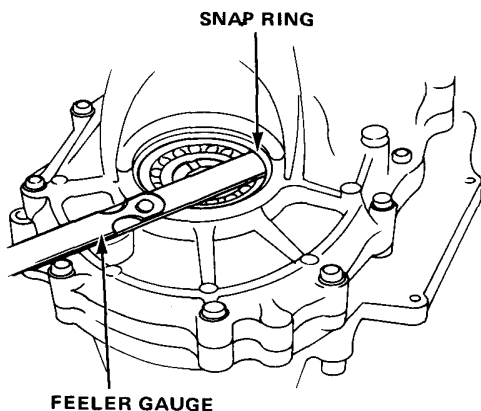




Differential Seal Installation

1. Measure the clearance between the snap ring and the bearing outer race.

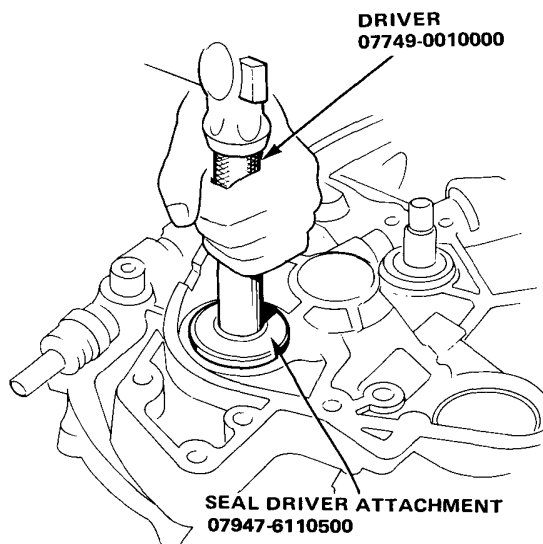
SIDE CLEARANCE; 0–0.15 mm
(0–0.006 in.)



Select a snap ring of the correct thickness from the table below if the clearance is out of tolerance.

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.)

2. Apply grease to the seal, and then drive it into the clutch housing with the special tools.



3. Apply grease to the seal, and then drive it into the transmission housing with the special tools.

