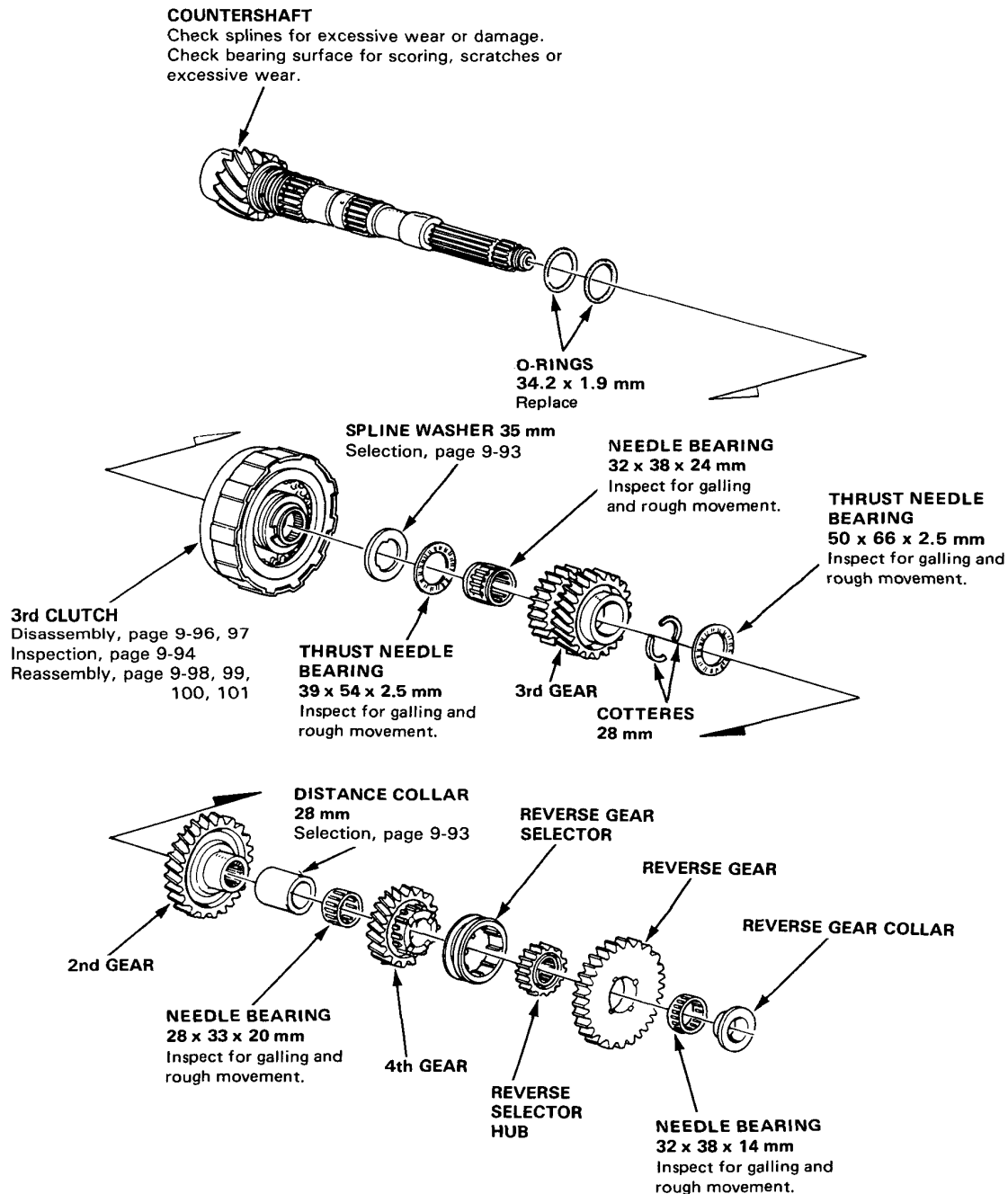


Countershaft

Disassembly/Inspection/Reassembly

NOTE:

- Lubricate all parts with ATF during reassembly.
- Install thrust needle bearings with unrolled edge of bearing retainer facing washer.
- Before installing the O-rings, wrap the shaft splines with vinyl tape to prevent damage to the O-rings.



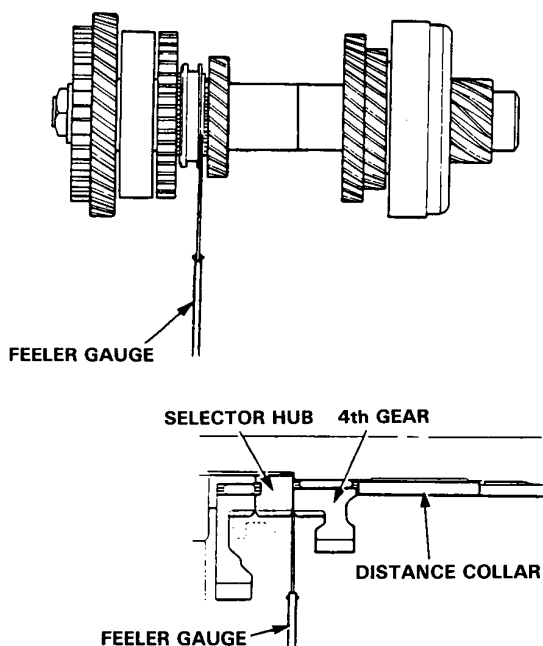


Distance Collar/Spline Washer Selecting

1. Remove the countershaft bearing from the transmission housing.
2. Assemble all parts including the counter-shaft bearing on the countershaft.
3. Torque the countershaft locknut to 30 N·m (3.0 kg-m, 22 lb-ft).
4. Measure the clearance between the shoulder on the selector hub and the shoulder on 4th gear.

Countershaft 4th Gear Clearance:

Standard: 0.07–0.15 mm (0.003–0.006 in.)

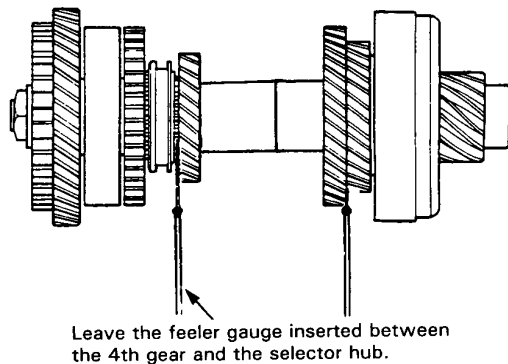


5. If the clearance exceeds the service limit, measure the thickness of the distance collar and select one which will give the correct clearance.

Replacement distance collar:

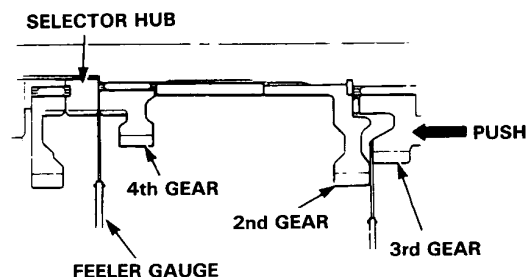
P/N	THICKNESS
90503-PC9-000	38.97–39.00 mm (1.534–1.535 in)
90508-PC9-000	39.02–39.05 mm (1.536–1.537 in)
90504-PC9-000	39.07–39.10 mm (1.538–1.539 in)
90509-PC9-000	39.12–39.15 mm (1.540–1.541 in)
90505-PC9-000	39.17–39.20 mm (1.542–1.543 in)
90510-PC9-000	39.22–39.25 mm (1.544–1.545 in)
90507-PC9-000	39.27–39.30 mm (1.546–1.547 in)
90511-PC9-000	39.87–39.90 mm (1.570–1.571 in)
90512-PC9-000	39.92–39.95 mm (1.572–1.573 in)

6. Slide the 3rd gear out fully. Measure and record the clearance between the 2nd and 3rd gears with a feeler gauge.



- Slide the 3rd gear in fully and again measure the clearance between 2nd and 3rd gears.
- Calculate the difference between the two readings to determine the actual clearance.

Service Limit: 0.07–0.15 mm (0.003–0.006 in)



7. If the clearance exceeds the service limit, measure the thickness of the spline washer and select one which will give the correct clearance.

Replacement spline washer:

P/N	THICKNESS
90411-PF4-000	2.97–3.00 mm (0.117–0.118 in)
90412-PF4-000	3.02–3.05 mm (0.119–0.120 in)
90413-PF4-000	3.07–3.10 mm (0.121–0.122 in)
90414-PF4-000	3.12–3.15 mm (0.123–0.124 in)
90415-PF4-000	3.17–3.20 mm (0.125–0.126 in)
90416-PF4-000	3.22–3.25 mm (0.127–0.128 in)
90417-PF4-000	3.27–3.30 mm (0.129–0.130 in)
90418-PF4-000	3.32–3.35 mm (0.131–0.132 in)
90419-PF4-000	3.37–3.40 mm (0.133–0.134 in)