

Countershaft

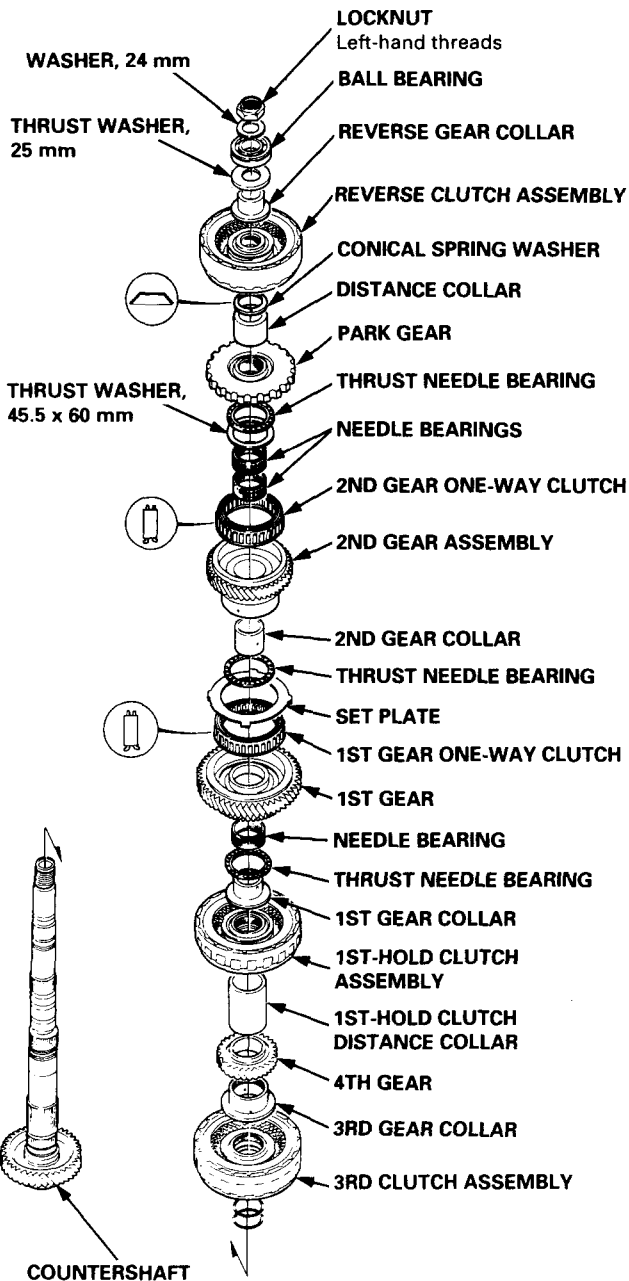
Inspection

Clearance Measurements

NOTE: Lubricate all parts with ATF during assembly.

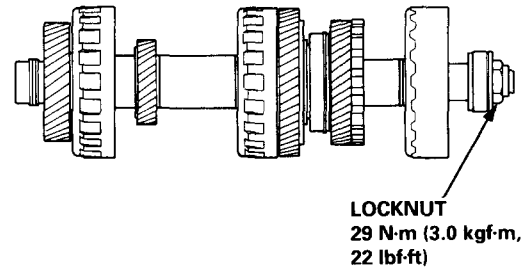
1. Assemble the parts below on the countershaft.

NOTE: Do not install the O-rings during inspection.



2. Torque the countershaft locknut to 29 N-m (3.0 kgf-m, 22 lbf-ft).

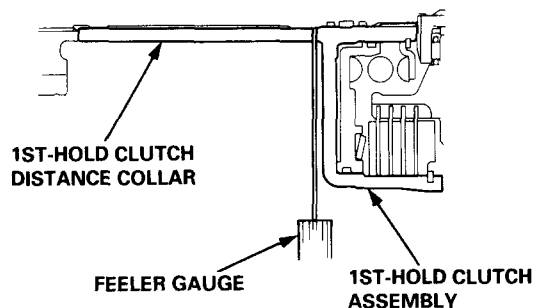
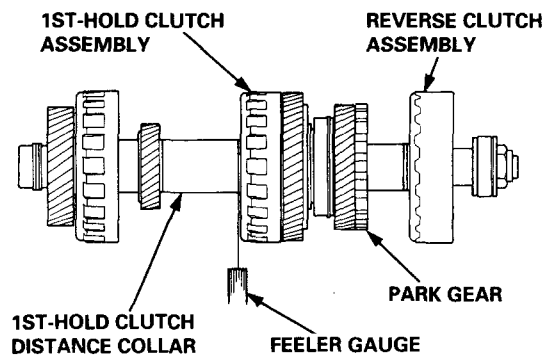
NOTE: Countershaft locknut has left-hand threads.



3. Hold the 1st-hold clutch assembly against the park gear. Measure the clearance between the 1st-hold clutch distance collar and the 1st-hold clutch with a feeler gauge.

NOTE: Take measurements in at least three places, and use average as the actual clearance.

STANDARD: 0 - 0.08 mm (0 - 0.003 in)



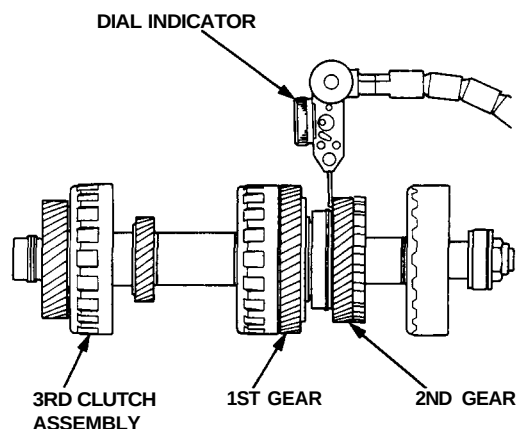


4. If the clearance is out of tolerance, remove the 1st-hold clutch distance collar and measure its length.
5. Select and install a new 1st-hold clutch distance collar, then recheck the clearance.

1ST-HOLD CLUTCH DISTANCE COLLAR

No.	Part Number	Length
1	90451 - PY4 - 010	72.00 mm (2.835 in)
2	90452 - PY4 - 010	72.05 mm (2.837 in)
3	90453 - PY4 - 010	72.10 mm (2.839 in)
4	90454 - PY4 - 010	72.15 mm (2.841 in)
5	90455 - PY4 - 010	72.20 mm (2.843 in)
6	90456 - PY4 - 010	72.25 mm (2.844 in)
7	90457 - PY4 - 010	72.30 mm (2.846 in)
8	90458 - PY4 - 010	72.35 mm (2.848 in)
9	90459 - PY4 - 010	72.40 mm (2.850 in)
10	90460 - PY4 - 010	72.45 mm (2.852 in)
11	90461 - PY4 - 010	72.50 mm (2.854 in)

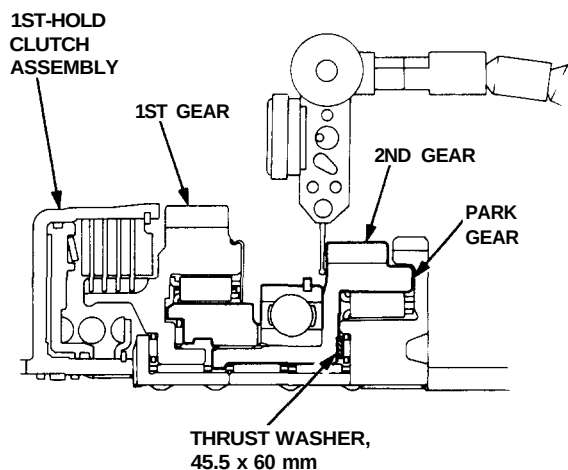
6. After replacing the 1st-hold clutch distance collar, make sure that the clearance is within tolerance.
7. Attach a dial indicator to the side of the 2nd gear.



8. Measure 2nd gear axial clearance while pushing the 1st gear towards the reverse clutch assembly.

NOTE: Take measurements in at least three places, and use the average as the actual clearance.

STANDARD: 0.05 - 0.13 mm (0.002 - 0.005 in)



9. If the clearance is out of tolerance, remove the 45.5 x 60 mm thrust washer, and measure its thickness.
10. Select and install a new 45.5 x 60 mm thrust washer, then recheck the clearance.

THRUST WASHER, 45.5 x 60 mm

No.	Part Number	Thickness
1	90411 - P5D - 000	1.30 mm (0.051 in)
2	90412 - P5D - 000	1.35 mm (0.053 in)
3	90413 - P5D - 000	1.40 mm (0.055 in)
4	90414 - P5D - 000	1.45 mm (0.057 in)
5	90415 - P5D - 000	1.50 mm (0.059 in)
6	90416 - P5D - 000	1.55 mm (0.061 in)
7	90417 - P5D - 000	1.60 mm (0.063 in)
8	90418 - P5D - 000	1.65 mm (0.065 in)
9	90419 - P5D - 000	1.70 mm (0.067 in)
10	90420 - P5D - 000	1.75 mm (0.069 in)
11	90421 - P5D - 000	1.80 mm (0.071 in)
12	90422 - P5D - 000	1.85 mm (0.073 in)
13	90423 - P5D - 000	1.90 mm (0.075 in)

11. After replacing the 45.5 x 60 mm thrust washer, make sure that the clearance is within tolerance.