

Secondary Driven Gear Shaft

Tapered Roller Bearing Preload Adjustment

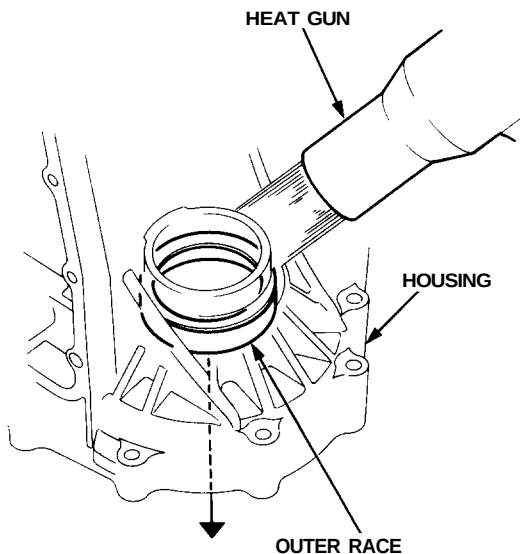
NOTE: If the transmission housing, torque converter housing, secondary driven gear shaft, tapered roller bearing, outer race, thrust shim, or thrust washer were replaced, the bearing preload must be adjusted.

1. Remove the oil seals from both housings.
2. Remove the bearing outer race and thrust shim from the transmission housing by heating the housing to about 212°F (100°C) with a heat gun.

CAUTION:

- Do not heat the housing in excess of 212 F (100°C).
- Replace the tapered roller bearing whenever the outer race is removed.

NOTE: Let the transmission housing cool to room temperature before adjusting the bearing preload.



3. Select the 1.98 mm (0.078 in) thrust shim from the middle of the table below.

THRUST SHIM, 75 mm

No.	Part Number	Thickness mm (in)
A	23941 - P5D - 000	1.56 (0.061)
B	23942 - P5D - 000	1.59 (0.063)
C	23943 - P5D - 000	1.62 (0.064)
D	23944 - P5D - 000	1.65 (0.065)
E	23945 - P5D - 000	1.68 (0.066)
F	23946 - P5D - 000	1.71 (0.067)
G	23947 - P5D - 000	1.74 (0.069)
H	23948 - P5D - 000	1.77 (0.070)
I	23949 - P5D - 000	1.80 (0.071)
J	23950 - P5D - 000	1.83 (0.072)
K	23951 - P5D - 000	1.86 (0.073)
L	23952 - P5D - 000	1.89 (0.074)
M	23953 - P5D - 000	1.92 (0.076)
N	23954 - P5D - 000	1.95 (0.077)
O	23955 - P5D - 000	1.98 (0.078)
P	23956 - P5D - 000	2.01 (0.079)
Q	23957 - P5D - 000	2.04 (0.080)
R	23958 - P5D - 000	2.07 (0.081)
S	23959 - P5D - 000	2.10 (0.083)
T	23960 - P5D - 000	2.13 (0.084)
U	23961 - P5D - 000	2.16 (0.085)
V	23962 - P5D - 000	2.19 (0.086)
W	23963 - P5D - 000	2.22 (0.087)
X	23964 - P5D - 000	2.25 (0.089)
Y	23965 - P5D - 000	2.28 (0.090)
Z	23966 - P5D - 000	2.31 (0.091)
AA	23967 - P5D - 000	2.34 (0.092)
AB	23968 - P5D - 000	2.37 (0.093)
AC	23969 - P5D - 000	2.40 (0.094)
AD	23970 - P5D - 000	2.43 (0.096)

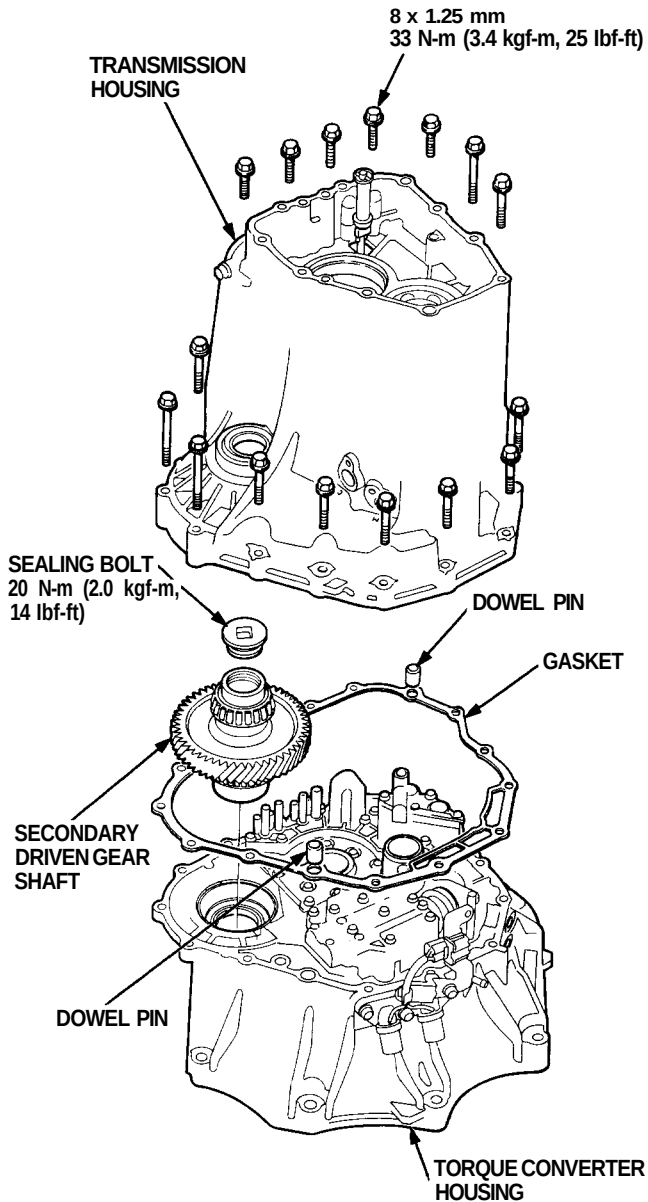
4. After installing the thrust shim, install the outer race in the transmission housing using the special tools (see page 14-172).

NOTE:

- Install the outer race squarely in the transmission housing.
- Check that there is no clearance between the outer race, shim, and transmission housing.



5. Install the sealing bolt to the secondary driven gear shaft, and torque it to 20 N-m (2.0 kgf-m, 14 lbf-ft).



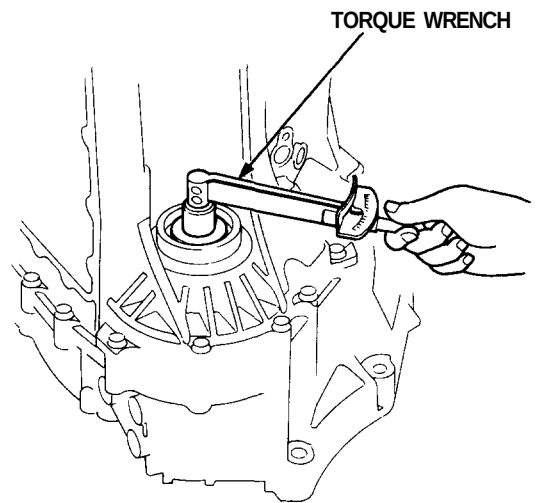
6. With the mainshaft and countershaft removed, install the secondary driven gear shaft, and torque the transmission housing.

NOTE: Install the gasket when checking starting torque.

7. Rotate the secondary driven gear shaft in both directions to seat the bearing.

8. Measure the starting torque of the secondary driven gear shaft with a torque wrench.

STANDARD: 3.4 - 4.4 N-m
(35 - 45 kgf-cm, 30 - 39 lbf-in)



NOTE:

- Measure the starting torque at normal room temperature in both directions.
- Changing the shim to the next size will increase or decrease starting torque about 0.3 - 0.4 N-m (3-4 kgf-cm, 3-4 lbf-in).
- To increase the starting torque, increase the thickness of the shim. To decrease the starting torque, decrease the thickness of the shim.