Bearing Preload

Adjustment -

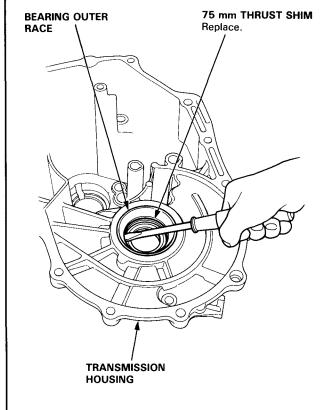
NOTE: If any of the items listed below are replaced, the bearing preload must be adjusted.

- TRANSMISSION HOUSING
- CLUTCHHOUSING
- DIFFERENTIAL
- TAPERED ROLLER BEARING and OUTER RACE
- 75 mm THRUST SHIM
- 90 mm WASHER
- OIL GUIDE RING
- Remove the bearing outer race and 75 mm thrust shim from the transmission housing by prying up on the bearing outer race or by heating the housing to about 212°F (100°C).

CAUTION: Do not reuse the thrust shim if the outer race was pried out.

NOTE:

- If the outer race was removed by heating the case, let the transmission cool to room temperature before adjusting the bearing preload.
- Do not heat the transmission housing in excess of 212°F (100°C).
- Replace the bearing with a new one whenever the outer race is replaced.
- · Repeat on the clutch side.



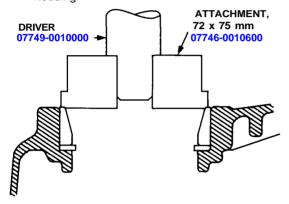


Install the standard shim and bearing outer race into the transmission housing using the special tools as shown.

CAUTION: Do not use more than one shim to adjust the bearing preload.

NOTF:

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



75 mm THRUST SHIM:

() Standard shim

	Part Number	Thickness
Α	41481-PR8-000	1.70 mm (0.0669 in)
В	41482-PR8-000	1.73 mm (0.0681 in)
С	41483-PR8-000	1.76 mm (0.0693 in)
D	41484-PR8-000	1.79 mm (0.0705 in)
Е	41485-PR8-000	1.82 mm (0.0723 in)
F	41486-PR8-000	1.85 mm (0.0728 in)
G	41487-PR8-000	1.88 mm (0.0740 in)
Н	41488-PR8-000	1.91 mm (0.0752 in)
П	41489-PR8-000	1.94 mm (0.0764 in)
①	41490-PR8-000	1.97 mm (0.0776 in)
K	41491-PR8-000	2.00 mm (0.0787 in)
L	41492-PR8-000	2.03 mm (0.0799 in)
М	41493-PR8-000	2.06 mm (0.0811 in)
N	41494-PR8-000	2.09 mm (0.0823 in)
0	41495-PR8-000	2.12 mm (0.0835 in)
Р	41496-PR8-000	2.15 mm (0.0846 in)
Q	41497-PR8-000	2.18 mm (0.0858 in)
R	41498-PR8-000	2.21 mm (0.0870 in)
S	41499-PR8-000	2.24 mm (0.0882 in)
T	41500-PR8-000	2.27 mm (0.0894 in)

- 3. Lubricate the tapered roller bearing with transmission oil, then install the differential.
- 4. Install the transmission housing.

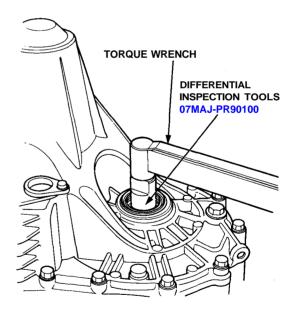
NOTE: Do not install the mainshaft, countershaft, and reverse idle gear shaft.

Torque: 45 N-m (4.5 kg-m, 33 lb-ft)

- Rotate the differential assembly in both directions to seat the bearings.
- Measure the starting torque of the differential assembly with a special tool and a torque wrench as shown.

NOTE: Measure the bearing preload at normal room temperature in both directions.

Standard: 2.0-3.0 N-m (20-30 kg-cm, 17-26 lb-in)



7. If the bearing preload is not within the standard, select the shim that will give you the correct preload, and recheck.

NOTE: Changing one of the shims to the next size will increase or decrease preload about 0.3-0.4 N-m (3-4 kg-cm, 2.60-3.47 lb-in).