Bearing Preload

- Adjustment -

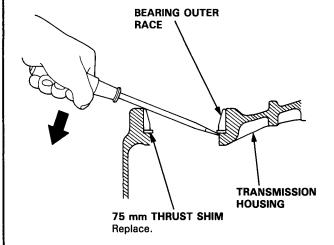
NOTE: If any of the items listed below are replaced, the bearing preload must be adjusted.

- TRANSMISSION HOUSING
- TORQUE CONVERTER HOUSING
- 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 torque converter side.



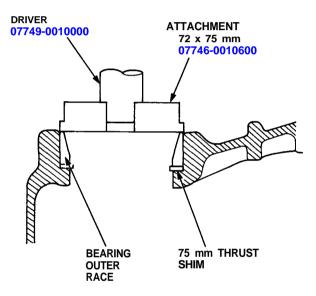


Install the standard shim and bearing outer race into the transmission housing using the special tools as shown.

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

NOTE:

- · 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:

O Standard shim

| | | O Standard shifti |
|-----|---------------|---------------------|
| | Part Number | Thickness |
| Α | 41481-PR8-000 | 1.70 mm (0.0669 in) |
| В | 41482-PR8-000 | 1.73 mm (0.0681 in) |
| C | 41483-PR8-000 | 1.76 mm (0.0693 in) |
| D | 41484-PR8-000 | 1.79 mm (0.0705 in) |
| E | 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) |
| ı | 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) |
| a | 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) |
| Т | 41500-PR8-000 | 2.27 mm (0.0894 in) |
| U | 41501-PR9-000 | 2.30 mm (0.0906 in) |
| V | 41502-PR9-000 | 2.33 mm (0.0917 in) |
| w | 41503-PR9-000 | 2.36 mm (0.0929 in) |
| X | 41504-PR9-000 | 2.39 mm (0.0941 in) |
| Υ | 41505-PR9-000 | 2.42 mm (0.0953 in) |

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

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

Torque: 55 N-m (5.5 kg-m, 40 lb-ft)

5. Rotate the differential assembly in both directions to seat the bearings.

(cont'd)

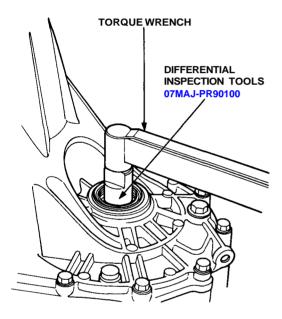
Bearing Preload

Adjustment (cont'd)

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: 3.3-4.5 N-m (33-45 kg-cm, 29-39 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).