

**TRANSMISSION**

|                       |                       | STANDARD                            | SERVICE LIMIT       |
|-----------------------|-----------------------|-------------------------------------|---------------------|
| Gearshift fork        | Claw thickness        | 6.43–6.50 mm (0.253–0.256 in)       | 6.1 mm (0.24 in)    |
|                       | I.D. (right and left) | 14.000–14.021 mm (0.5512–0.5520 in) | 14.04 mm (0.553 in) |
| Shift fork shaft O.D. |                       | 13.966–13.984 mm (0.5498–0.5506 in) | 13.90 mm (0.547 in) |

**TORQUE VALUES**

|                               |       |   |                                      |
|-------------------------------|-------|---|--------------------------------------|
| Output gear case              |       | 30–34 N·m (3.0–3.4 kg-m, 22–25 ft-lb)   |                                      |
| Driven gear bearing holder    |       | 30–34 N·m (3.0–3.4 kg-m, 22–25 ft-lb)   | Apply engine oil to the bolt threads |
| Countershaft bearing holder   |       | 30–34 N·m (3.0–3.4 kg-m, 22–25 ft-lb)   |                                      |
| Countershaft bearing lock nut | outer | 90–110 N·m (9.0–11.0 kg-m, 65–80 ft-lb) | Apply engine oil to the threads      |
|                               | inner | 70–80 N·m (7.0–8.0 kg-m, 51–58 ft-lb)   |                                      |
| Driven gear bearing lock nut  | outer | 90–110 N·m (9.0–11.0 kg-m, 65–80 ft-lb) |                                      |
|                               | inner | 70–80 N·m (7.0–8.0 kg-m, 51–58 ft-lb)   |                                      |

**TOOLS****Special**

|                           |                                |
|---------------------------|--------------------------------|
| Lock nut wrench, 30/64 mm | 07916–MB00000                  |
| Shaft holder              | 07923–6890101                  |
| Attachment                | 07945–3330300                  |
| Bearing remover, 17 mm    | 07936–3710300                  |
| Remover handle            | 07936–3710100                  |
| Remover weight            | 07936–3710200 or 07741–0010201 |

**Common**

|                        |               |
|------------------------|---------------|
| Driver                 | 07749–0010000 |
| Attachment, 52 x 55 mm | 07746–0010400 |
| Pilot, 17 mm           | 07746–0040400 |
| Driver                 | 07746–0030100 |
| Attachment, 30 mm I.D. | 07746–0030300 |
| Pilot, 30 mm           | 07746–0040700 |

**TROUBLESHOOTING****Hard to shift**

1. Clutch slave cylinder sticking
2. Shift fork bent
3. Shift shaft bent
4. Shift claw bent
5. Shift drum cam grooves damaged

**Transmission jumps out of gear**

1. Gear dogs worn
2. Shift shaft bent
3. Shift drum stopper broken
4. Shift forks bent