

Check the mainshaft and countershaft for abnormal wear or damage.

Measure the mainshaft O.D. at the M5 gear.

**SERVICE LIMIT: 24.96 mm (0.983 in)**

Measure the countershaft O.D. at the C2 gear.

**SERVICE LIMIT: 27.96 mm (1.101 in)**

Calculate the gear bushing-to-shaft clearance.

**SERVICE LIMITS:**

**M5: 0.08 mm (0.003 in)**

**C2: 0.08 mm (0.003 in)**

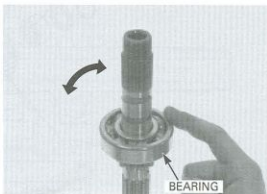
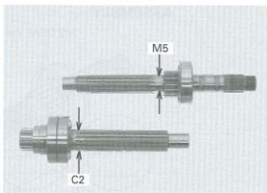
Turn the outer race of each bearing with your finger.

The bearings should turn smoothly and quietly.

Also check that the bearing inner race fits tightly on the shaft.

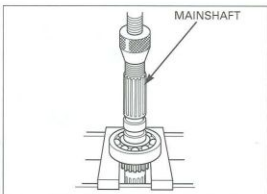
Remove and discard the mainshaft bearing if the race does not turn smoothly, quietly, or fits loosely on the mainshaft.

Replace the countershaft, collar, and bearing as an assembly if the race does not turn smoothly, quietly, or fits loosely on the countershaft.



**MAINSHAFT BEARING REPLACEMENT**

Press out the mainshaft from the bearing using a hydraulic press.



*Install with  
the groove side  
facing up.*

Install a new mainshaft bearing onto the mainshaft by pressing the mainshaft bearing inner race using the special tools.

**TOOLS:**

**Inner driver C**

**Attachment, 25 mm I.D.**

**07746-0030100**

**07746-0030200**

