

C. Removal, Installation, and Sealing of Transmission Case Front Cover

Removal:

34. Unscrew and remove the transmission case front cover, paying attention to the shims.
35. Drive the sealing ring out of the front cover.
36. Thoroughly clean the transmission case front cover.

Installation:

37. Coat the circumference of a new sealing ring with sealing compound and press it in, using Installing Arbor 198 589 00 61 (Fig. 26—4/15 and 26—4/16).

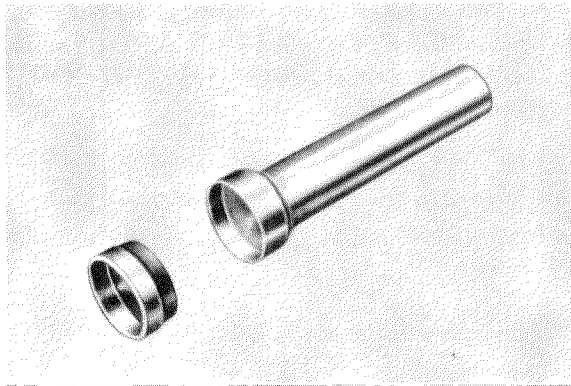


Fig. 26—4/15

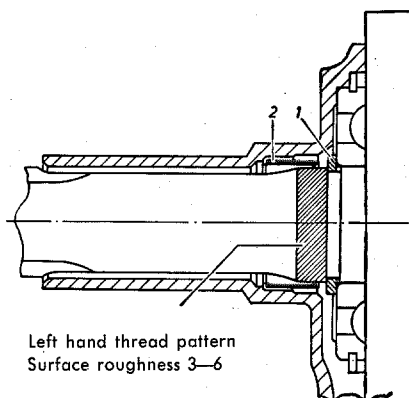


Fig. 26—4/16

- 1 Snap ring
2 Sealing ring

38. Determine the clearance between the transmission case front cover and the annular

grooved bearing. To do this, use a depth gage or a depth micrometer to measure the depth of the recess in the transmission case

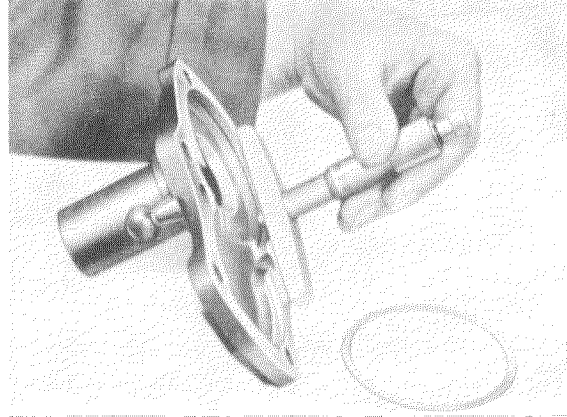


Fig. 26—4/17

front cover (Fig. 26—4/17) and the distance between the transmission case separating surface and the snap ring (Fig. 26—4/18). When these measurements are taken, the snap ring must fit snugly against the separating surface of the transmission case.

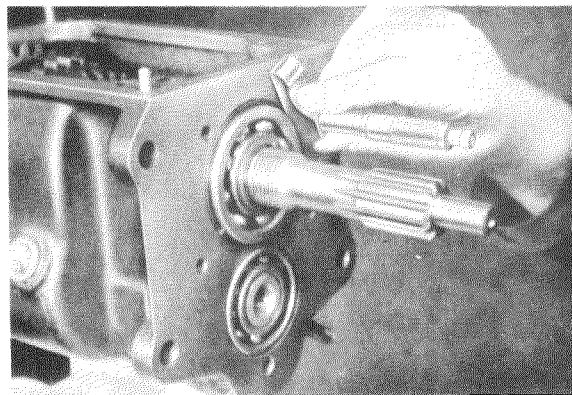


Fig. 26—4/18

The clearance between the annular grooved bearing and the transmission case front cover should be 0.00—0.05 mm; it can be adjusted by installing appropriate shims, which are available in the following thicknesses: 0.1, 0.2, and 0.3 mm.

39. Apply a thin coat of sealing compound to the separating surface of the transmission case front cover.

Slide Installing Sleeve 198 589 00 61 onto the drive shaft and insert the front cover together with the appropriate shim. Screw down the front cover and remove the installing sleeve.

On recent models, locking plates (part No. 180 994 00 15) are used for the fixing screws instead of lock washers.

Note: Before installing the front cover, check the contact surface of the sealing ring on the drive shaft. If the contact surface is badly worn, the drive shaft must be removed and the contact surface refinished. See E. Removal and Installation of Gear Train, including Disassembly and Reassembly, and Job No. 26—5, Checking and Repair of Transmission, Paragraph 6, Drive Shaft.

D. Removal, Installation, and Sealing of Transmission Case Rear Cover

Removal:

40. Perform the operations necessary to remove the transmission case top cover (see Paragraphs 1—3).

Note: The transmission case rear cover must only be removed or sealed with the transmission removed from the vehicle in order to prevent the key on the main shaft from slipping out of the groove in the thrust washer or the stop ring when the grooved nut is removed.

41. Slide Retaining Fixture 136 589 14 61 into the small gear section of the first and second speed gears in such a way that the two gears are pushed toward the synchronizing unit; this is necessary to prevent the key from slipping out of the groove of the stop ring or the thrust washer (see Fig. 26—4/19).

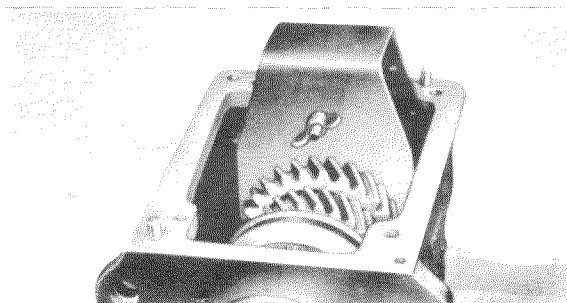


Fig. 26 — 4/19

42. Tap up the locking plate for the three-way flange at the main shaft. Engage reverse and fourth gear in order to block the transmission, or hold the three-way flange steady with Retaining Wrench 187 589 08 07. Then remove the grooved nut with Pin Wrench 186 589 11 07 and pull off the three-way flange by hand or, if necessary, by means of Bell-shaped Puller 136 589 03 33.
43. Unscrew transmission case rear cover and remove, together with speedometer drive gear, paying attention to the shims
44. Drive the sealing ring for the three-way flange out of the rear cover.
45. Use a screw driver to prize out the plug for the speedometer drive gear. Drive out the speedometer drive shaft and drive shaft sealing ring with a suitable drift and remove the small drive gear.
46. Thoroughly clean the transmission case rear cover and check the separating surface for evenness; if necessary, refinish by hand.

Installation

47. Slide the sealing ring onto the speedometer drive shaft. Install the small drive gear in the rear cover. Coat the circumference of the sealing ring with sealing compound and press the shaft, together with the sealing ring, into the transmission case rear cover (shaft and sealing ring must be flush).