

11. Install the shift forks and the shift rails (see Workshop Manual Model 190, Job No. 26-4).

Installation:

12. Install the transmission case cover (see Workshop Manual Model 190, Job No. 26-4).
13. Check the reversing light switch. To do this shift the shifting shaft to neutral and

connect the reversing light switch to a battery and a testing light. In the neutral position the testing light must not light up. Then engage reverse gear. In this position the testing light must light up. If the testing light does not light up, install a longer pressure pin. If the testing light lights up also in the neutral position, install a shorter pressure pin. Pressure pins are available in the following sizes:

40 mm, 40.5 mm, 41 mm

B. Removal and Installation of Clutch Housing

On Models 180, 180 a, 180 b, 180 D, 180 Db, 190 D, 190 Db, 190 SL, 219, 220 a, 220 S, and 220 SE with mechanical clutch the removal and installation procedures for the clutch housing are the same as described for Model 190.

For Models 219, 220 S, and 220 SE with hydraulic automatic clutch the removal and installation of the clutch housing was described in Workshop Manual Passenger Car Models as from August 1959, under Job No. 25-18.

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

I. Models 180 and 180 D (1st Version)

Use Pliers 136 589 00 37 to remove the snap ring from the groove in the transmission case cover before the transmission case front cover itself is removed. When this has been done the cover can be removed as described for Model 190.

II. Models 180 a, 180 b, 180 D (2nd Version), 180 Db, 190 D, 190 Db, 190 SL, and 220 a as well as 219, 220 S, and 220 SE with Mechanical Clutch

Removal and installation procedures are the same as for Model 190.

III. Models 219, 220 S, and 220 SE with Hydraulic Automatic Clutch

The transmission case cover has no socket for the clutch throw-out bearing. On Model 220 SE and on Models 219 and 220 S 2nd version a seal is provided between the cover and the case by a round cord ring located in a groove of the transmission case cover. Removal and installation procedures are the same as for Model 190.

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

On Models 180 to 220 SE the removal and installation procedures for the transmission case rear cover are the same as described for Model 190. Please note that on models with three-point engine suspension the rear rubber mounting must be removed first (see Job No. 24-1 and Job No. 26-1, Section A).

When replacing the transmission case rear cover or the speedometer drive gear, make sure that the proper drive gear and helical gear are installed. The gear ratio of the gears differs on the various models and furthermore on Models 220 a, 220 S, and 220 SE the drive gears rotate anti-clockwise, whereas on the other models they rotate clockwise.

E. Removal and Installation of Gear Train including Disassembly and Reassembly

On Models 180 to 220 SE the removal and installation procedures as well as the disassembly and reassembly procedures for the gear train are the same as on Model 190.

On the 3rd version transmission the third speed helical gear is carried in needle bearings and, as a result, the diameter of the main shaft is smaller at the bearing surface for the third speed gear (see Job No. 26-5). However, the disassembly and reassembly procedures for the gear train are the same as for the 1st and 2nd version transmission.