

Removal and Installation of Shift Lever and Shift Tube on Model 190 SL

Job No.
26-6

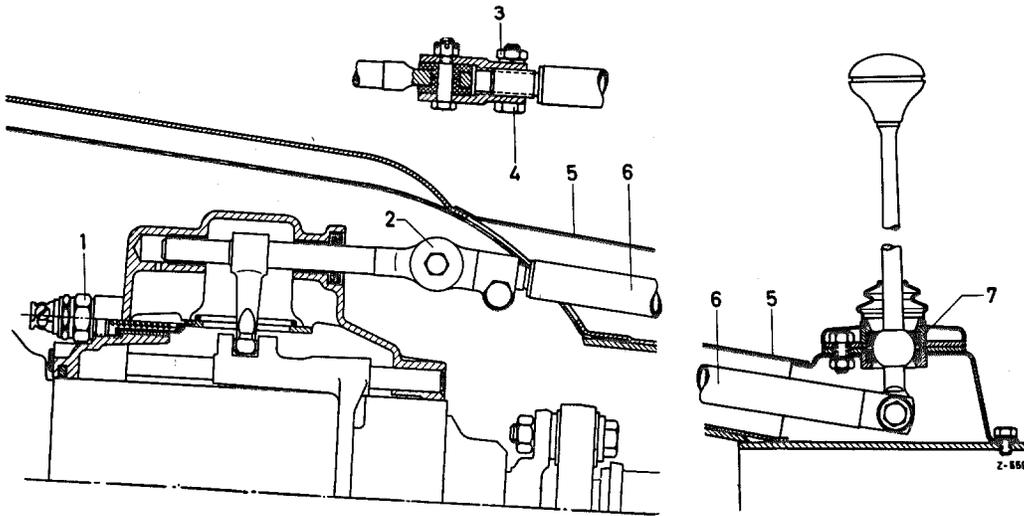


Fig. 26-6/1

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|--------------------------|-----------------------|
| 1 Reversing light switch | 5 Cover plate |
| 2 Yoke end | 6 Shift tube |
| 3 Hexagon nut | 7 Shift lever bearing |
| 4 Hexagon screw | |

Removal:

1. Roll the rubber mat on the transmission tunnel back to the left. After unscrewing the six hexagon screws, remove the cover plate (5) for the shift linkage from the transmission tunnel (Fig. 26-6/1).
2. Loosen the hexagon nut (3) on the yoke end of the shifting shaft and pull the shift tube (6) out of the splines on the yoke end toward the rear (Fig. 26-6/1).
3. Unscrew the three hexagon screws on the housing for the shift lever mounting and remove the shift lever together with mounting and shift tube.
4. In the case of the 1st version shift tube with rigid shift lever attachment pull out the bolt (5) and remove the shift tube (2) together with the pressure spring after unscrewing the castle nut and removing the washer (3) (Fig. 26-6/2).

the washers (3a), the bushings (4) and the shift tube (2) after unscrewing the castle nut and removing the hexagon screw (5a) (Fig. 26-6/2).

6. Unscrew the shift lever knob and pull off the sleeve (2) and the cover plate (3) (Fig. 26-6/3).

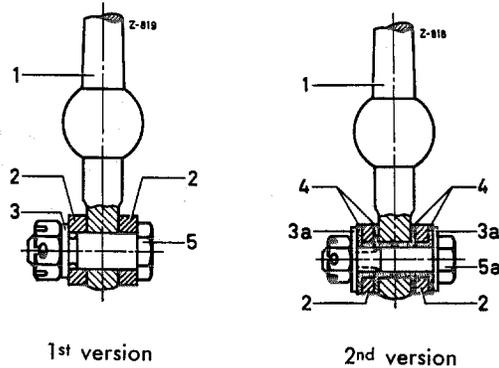


Fig. 26-6/2

5. In the case of the 2nd version shift tube with flexible shift lever attachment remove

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|---------------|------------------|
| 1 Shift lever | 4 Bushing |
| 2 Shift tube | 5 Bolt |
| 3 Washer | 5a Hexagon screw |
| 3a Washer | |

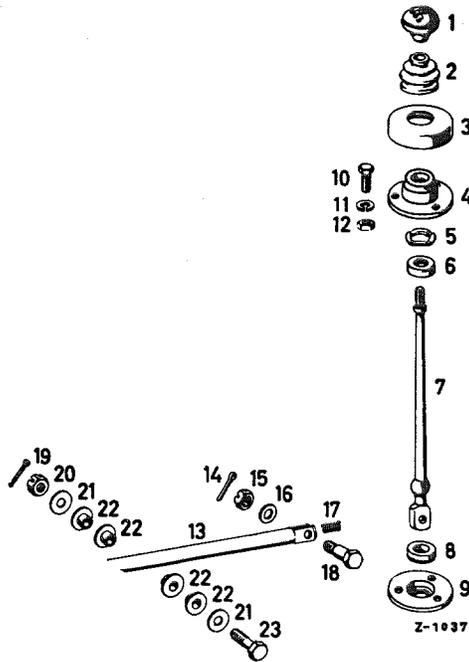


Fig. 26-6/3

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|-----------------------------|--------------------|
| 1 Shift lever knob | 1st Version |
| 2 Sleeve | 14 Cotter pin |
| 3 Cover plate | 15 Castle nut |
| 4 Upper shift lever bearing | 16 Washer |
| 5 Spring washer | 17 Pressure spring |
| 6 Ball socket ring | 18 Bolt |
| 7 Shift lever | 2nd Version |
| 8 Ball socket ring | 19 Cotter pin |
| 9 Lower shift lever bearing | 20 Castle nut |
| 10 Hexagon screw | 21 Washer |
| 11 Lock washer | 22 Bushing |
| 12 Hexagon nut | 23 Hexagon screw |
| 13 Shift tube | |

7. Loosen the three hexagon screws (10) on the shift lever mounting and remove them together with nuts and lock washers. Then remove the upper shift lever bearing (4), the shift lever and the lower shift lever bearing (9) (Fig. 26-6/3).
8. Press the ball socket rings (6 and 8) out of the shift lever bearings, paying attention to the spring washer (5) in the upper shift lever bearing (Fig. 26-6/3).

Installation:

9. Before reinstallation check all parts to see whether they are still serviceable and replace them if necessary. The ball socket rings and the bushings (22) require particular attention. The spring washer (5) must have sufficient tension to be able to exert the necessary contact pressure on the ball socket rings (see Fig. 26-6/3).
10. Insert the spring washer in the upper shift lever bearing and press the ball socket rings into the two shift lever bearings.
11. Grease the ball socket rings well and install the lower shift lever bearing on the ball socket of the shift lever from below and the upper shift lever bearing from the top. Install the shift lever with its bearing in the housing and fix it with the three hexagon screws.
12. Attach the shift tube to the shift lever.

In the case of the 1st version install the pressure spring and insert the bolt. Put on the washer, tighten and lock the castle nut. In the case of the 2nd version install the bushing and the washers, insert the hexagon screw, install the castle nut and tighten until the shift lever moves easily and snugly in the yoke end of the shift tube.

13. Screw in and tighten the three hexagon screws fastening the housing for the shift lever mounting.
14. Adjust the gear shift mechanism (Job No. 26-1).
15. Screw on the cover plate for the shift linkage and roll the rubber mat back into place.