

## Removal and Installation of Shift Tube Guide Pin

Job No.

26-11

### I. Models 180, 180 a, 180 D, 190 D, 220 a, 219, 220 S, and 220 SE

On Models 180 to 220 SE the removal and installation procedures for the shift tube guide pin are the same as described for Model 190.

On older cars of Models 180, 180 D, and 220 a, 1<sup>st</sup> version guide pins were installed with a one-sided groove for the locking washer. If one of these guide pins has to be replaced, use a 2<sup>nd</sup> version guide pin with double-sided grooves and a corresponding locking washer.

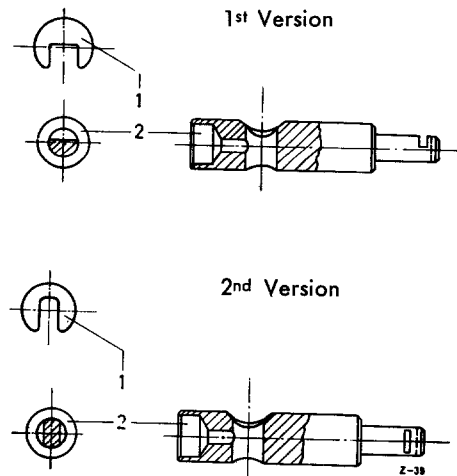


Fig. 26-11/1

### II. Models 180 b, 180 Db, and 190 Db

The guide pin can only be removed and installed if the steering tube has been removed first (see Job No. 46-7). Further procedures are as described for Model 190.

## Removal and Installation of Bearing Assembly for Steering Wheel Shift System

Job No.

26-12

Two versions of the bearing assembly are available. The 1<sup>st</sup> version, which was only installed in Models 180, 180 D, and 220 a was attached to the support plate of the steering column jacket by four screws (see Fig. 26-12/1). The 2<sup>nd</sup> version which has been installed on Model 180 D as from Chassis End No. 55 19057, on Model 220 a as from Chassis End No. 55 18045, and on all cars of Models 180 a, 190 D, 219, 220 S, and 220 SE is clamped to the steering column jacket by means of a bearing cover (Fig. 26-12/2).

### I. Models 180, 180 D, and 220 a with 1<sup>st</sup> Version Bearing Assembly

The removal and installation procedure is essentially the same as described for Model 190, but the following details need attention:

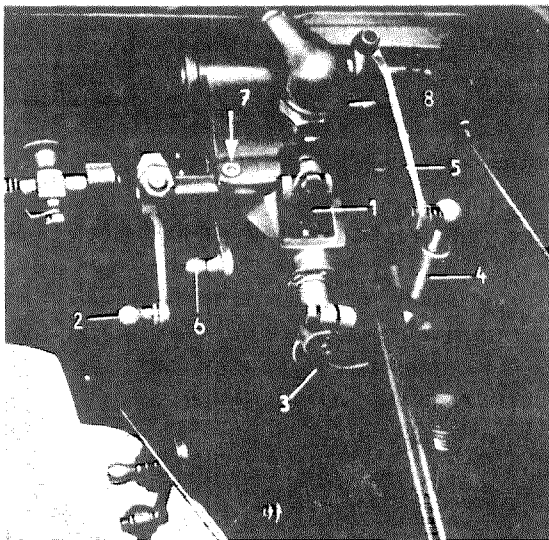


Fig. 26-12/1

1st Version

- |                            |                                  |
|----------------------------|----------------------------------|
| 1 Selector lever with claw | 5 Relay lever                    |
| 2 Selector lever           | 6 Relay shaft                    |
| 3 Lever                    | 7 Bearing assembly               |
| 4 Connector                | 8 Steering column jacket support |

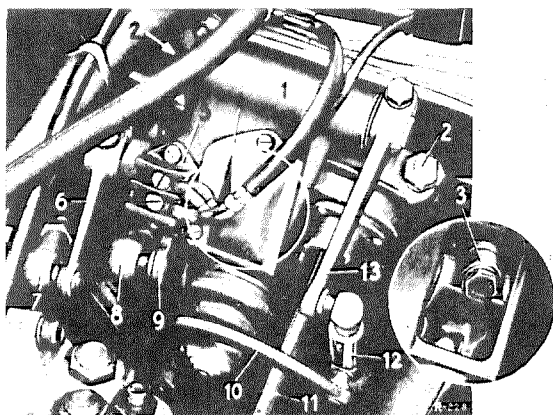


Fig. 26-12/2

2nd Version

- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| 1 Bearing assembly                   | 8 Ball cup connector of shift rod   |
| 2 Hexagon screw                      | 9 Relay shaft lever                 |
| 3 Selector lever on shift tube       | 10 Lever on shift tube              |
| 4 Dust cover                         | 11 Steering tube                    |
| 5 Cable connector                    | 12 Spring-loaded ball cup connector |
| 6 Selector lever                     | 13 Relay lever                      |
| 7 Ball cup connector of selector rod |                                     |

### Removal:

1. Disconnect the cable at the reversing light switch and unscrew the switch. Remove the pressure pin, the stop sleeve and the bushing from the bearing assembly. The reversing light switch must be removed because the stop sleeve projects into the recess of the shift tube which would make it very difficult to pull the bearing assembly out over the shift tube.
2. Unscrew the four hexagon screws fixing the bearing assembly to the support plate of the steering column jacket.

### Installation:

3. Attach the bearing assembly to the support plate of the steering column jacket by means of the four hexagon screws. Use only hexagon screws M 6 x 25 S with castle nuts M 6 and cotter pins 2 x 15 in order to prevent the bearing assembly from working loose, as this would make gear shifting difficult. Install the castle nuts on the bearing assembly side.
4. Install the reversing light switch in the bearing assembly. Before screwing in the switch, oil the bushing, the stop sleeve and the pressure pin and install them in the bearing assembly. Both pressure pin and stop sleeve must slide easily. Connect the cable to the reversing light switch.

## II. Models 180 a, 180 b, 180 D, 180 Db, 190 D, 190Db, 219, 220 a, 220S, and 220SE with 2<sup>nd</sup> Version Bearing Assembly

For these models, installation and removal procedures of the bearing assembly are the same as for Model 190.