

B. Mounting of Clutch Pedal Shaft and Clutch Actuating Linkage

1st Version

Model 180

On the 1st version without end-plate and without swivel support detach the return spring for the clutch linkage (5). Unscrew the stay rod (6) from the clutch housing and the chassis base panel. After reinstallation adjust the stay rod in such a way that the engine can settle in its mountings without strain (see Fig. 29-1/2).

2nd Version

Models 180, 180 D, 220 a, and 190 SL

In the case of the 2nd version the clutch pedal shaft is mounted in an end-plate on the transmission on the right-hand side. The compensating spring for the clutch actuating mechanism is located at the outside of the clutch pedal (Fig. 26-1/3).

Removal:

1. Detach the return spring for the clutch throw-out fork. Remove the shackle and pull rod from the clutch throw-out fork after loosening the threaded bolt. The pull rod need not be removed from the relay lever of the clutch pedal shaft (see Fig. 26-1/3).
2. Unscrew the two lock nuts and hexagon nuts from the jointing plate for the clutch actuating mechanism. Remove the rubber cuff from the end-plate and push the clutch pedal shaft together with the flange and the jointing plate toward the outside (Fig. 26-1/3).

Installation:

3. Fill the end-plate with grease, install the rubber cuff and insert the clutch pedal shaft in the end-plate.

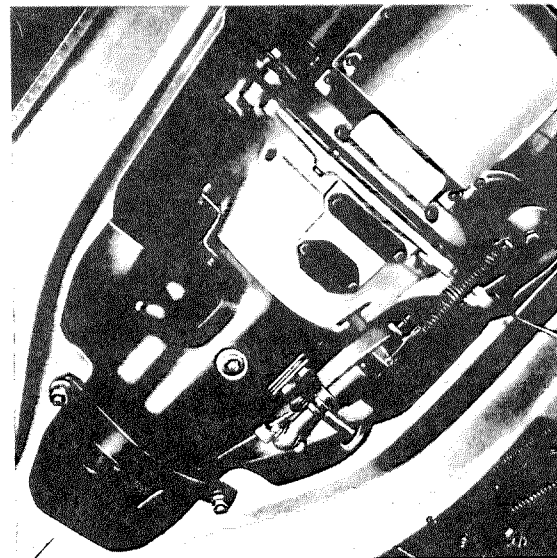


Fig. 26-1/2

4. Attach the jointing plate to the clutch pedal.
5. Check the position of the clutch pedal shaft in the mounting tube on the chassis base panel; it should be exactly in the center of the mounting tube. If the position has to be corrected, loosen the two hexagon nuts on the end-plate and change the position of the end-plate as required. Tighten the two hexagon nuts and lock them by tapping down the locking plate.
6. Attach the shackle together with the pull rod to the clutch throw-out fork and attach the return spring. Adjust the clutch pedal free play (see Job No. 29-3).

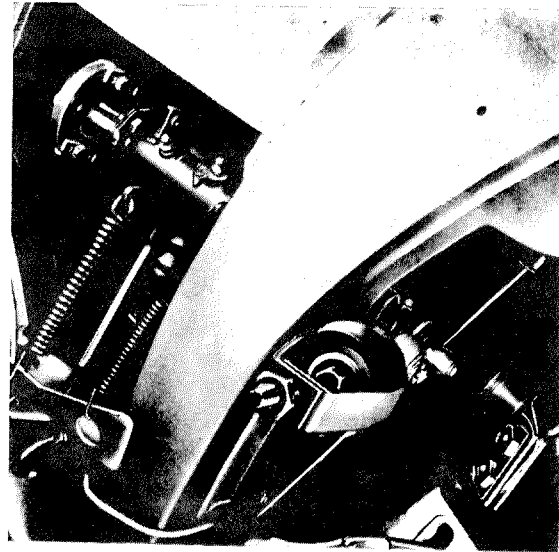


Fig. 26-1/3

3rd Version

Models 180, 180 D, 190 SL, and 220 a

The clutch pedal shaft is mounted in the same way as the 2nd version shaft but the compensating spring (2) is attached to the relay lever (1) and the clutch housing (6) (Fig. 26-1/4). On later models the shackle position was reversed in order to prevent the hand brake cable from fouling the relay lever shackle. If necessary, the relay lever with top shackle can always be replaced by a lever with reversed shackle (Fig. 26-1/4).

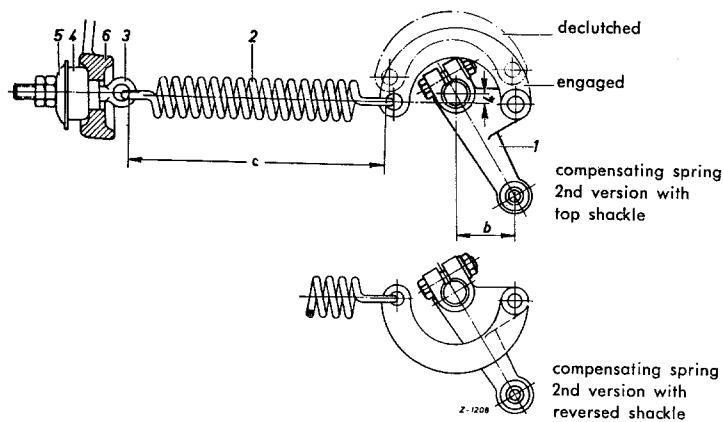


Fig. 26-1/4

- | | |
|----------------------------|------------------|
| 1 Relay lever with shackle | 4 Rubber buffer |
| 2 Compensating spring | 5 Cup washer |
| 3 Pull rod | 6 Clutch housing |

c = Adjusting dimension
for compensating
spring

Models 180, 180 D, 190 SL
c = 137 mm

Model 220 a
c = 155 mm

Distance b
see Job No. 29-3

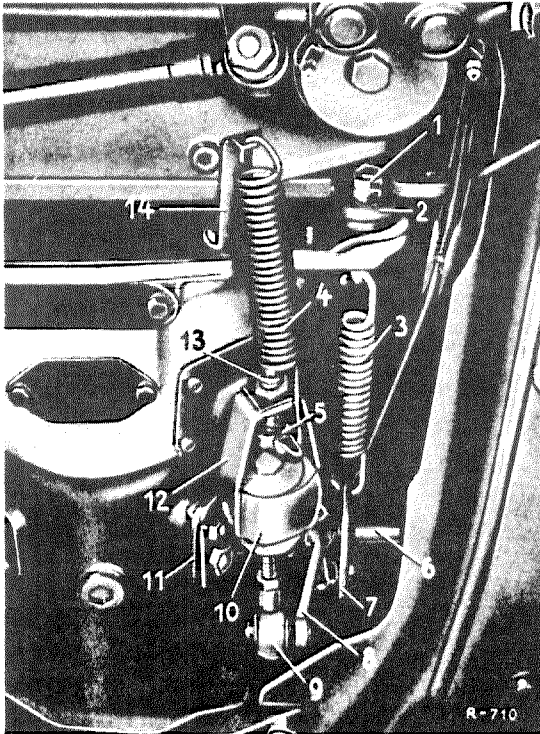


Fig. 26-1/5

- 1 Hexagon nut
- 2 Cup washer with rubber buffer
- 3 Compensating spring with pull rod
- 4 Return spring for clutch actuating mechanism
- 5 Clutch throw-out fork
- 6 Clutch pedal shaft
- 7 Shackle for compensating spring
- 8 Relay lever
- 9 Red head
- 10 Rubber buffer
- 11 End plate
- 12 Shackle
- 13 Threaded bolt
- 14 Bracket for return spring

Removal:

1. Unscrew the hexagon nuts (1) and detach the compensating spring with pull rod (3), the cup washer (2) and the rubber buffer (Fig. 26-1/5).

The other procedures are the same as described for the 2nd version.

Installation:

2. After installing the clutch pedal shaft, attach the compensating spring, and adjust the pull rod of the compensating spring (3) by means of the two hexagon nuts in such a way that the compensating spring has a length "c" as shown in Fig. 26-1/4. Further installation procedures are identical with those described for the 2nd version.

4th Version

Models 180, 180 a, 180 b, 180 D, 180 Db, 190 D, 190 Db, 190 SL, 219, 220 S, and 220 SE

The 4th version of the clutch pedal shaft is mounted on a swivel support which is attached to the clutch housing by means of a spring plate. This version has no compensating spring. In the case of Models 180 a, 180 b, 190 D, and 190 Db the sprung bracket for the swivel support is attached to the clutch housing as on Model 190 (Fig. 26-1/6).

On all other models the bracket is screwed rigidly to the clutch housing (Fig. 26-1/7).

Removal:

1. Detach the pull rod of the clutch actuating mechanism as in the case of the 2nd and 3rd versions.
2. Detach the swivel support (9) from the spring plate (8) by removing the two hexagon screws (Fig. 26-1/7).
3. Further removal procedures correspond to those described for Model 190.

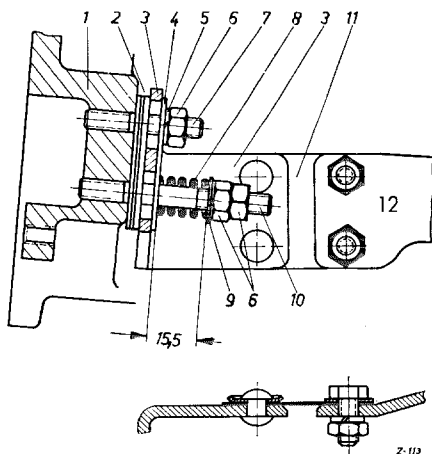


Fig. 26-1/6

- | | |
|------------------|-------------------|
| 1 Clutch housing | 7 Stud screw |
| 2 Shims | 8 Damping spring |
| 3 Bracket | 9 Washer |
| 4 Spacer | 10 Stud screw |
| 5 Lock washer | 11 Spring plate |
| 6 Hexagon nut | 12 Swivel support |

Installation:

- After installing the transmission screw the swivel support (9) to the spring plate (8) by means of the two hexagon screws (Fig. 26-1/7).
- Center the clutch pedal shaft in the mounting tube on the chassis base panel. The shaft is centered horizontally by adding or removing shims (2) where the swivel support is fastened to the clutch housing (Figs. 26-1/6 and 26-1/7).

The shims are available in two sizes:

1 mm thick Part No. 120 293 01 88

2 mm thick Part No. 120 293 02 88

The shaft is centered vertically by shifting the bracket (3) (Fig. 26-1/6).

Note: On recent models the brackets (3) have two standard bores instead of the two slots. The spacer (4) is no longer required (Fig. 26-1/6).

In order to facilitate vertical centering of the clutch pedal shaft, the two bores in the swivel support (9) have been enlarged in diameter from 6.4 to 7.0 mm. If a new bracket (3) is installed subsequently, the two bores in the swivel support must be bored to a diameter of 7 mm (Fig. 26-1/7).

- In the case of Models 180 a, 180 b, 190 D, and 190 Db adjust the length of the damping spring (8) to 15.5 mm by screwing in

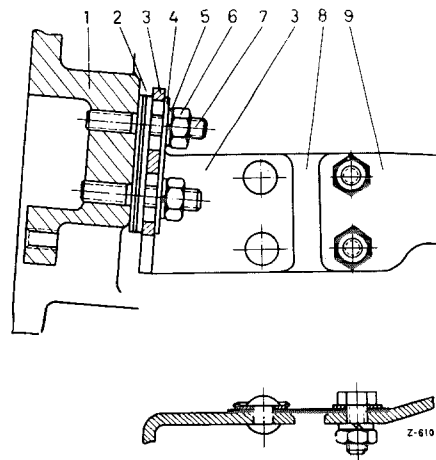


Fig. 26-1/7

- | | |
|------------------|------------------|
| 1 Clutch housing | 6 Hexagon nut |
| 2 Shims | 7 Stud screw |
| 3 Bracket | 8 Spring plate |
| 4 Spacer | 9 Swivel support |
| 5 Lock washer | |

or backing out the hexagon nut (6) (spring pressure approx. 40 kg) and by locking it in position by means of the second hexagon nut (6) (Fig. 26-1/6).

- Adjust the clutch pedal free play (see Job No. 29-3).

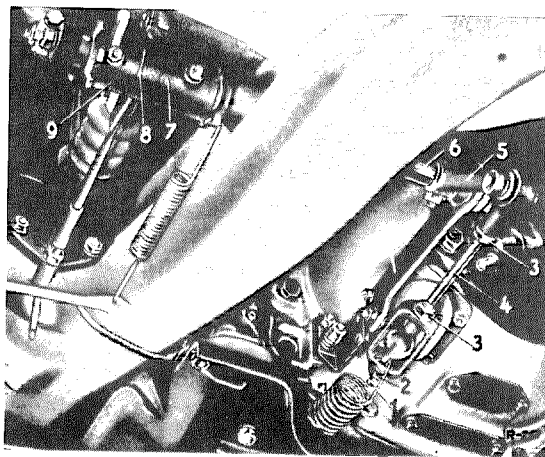


Fig. 26-1/8

4th version of clutch actuating mechanism

- | |
|---|
| 1 Threaded bolt for clutch pedal free play adjustment |
| 2 Lock nut for threaded bolt |
| 3 Lock nut for pull rod |
| 4 Pull rod |
| 5 Lever and bolt |
| 6 Clutch pedal shaft |
| 7 Brake pedal |
| 8 Lock washer |
| 9 Clutch pedal |
| 10 Swivel support |