

Removal and Installation of Clutch Pedal Shaft Ball and Clutch Pedal Shaft

Job-No.

29 - 5

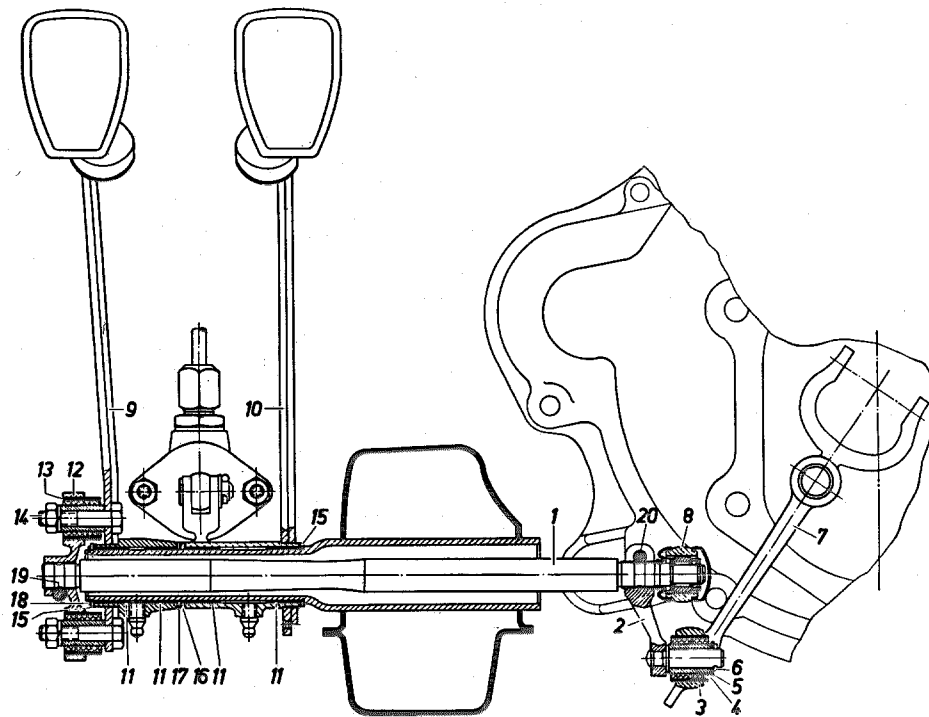


Fig. 29 — 5/1

- 1 Pedal shaft
- 2 Lever and bolt
- 3 Pull rod end
- 4 Buffer
- 5 Washer
- 6 Cotter pin
- 7 Throw-out fork
- 8 Swivel support
- 9 Clutch pedal
- 10 Brake pedal
- 11 Bushing
- 12 Flange
- 13 Buffer
- 14 Hexagon screw
- 15 Washer
- 16 Washer
- 17 Lock washer
- 18 Snap ring
- 19 Clamp screw
- 20 Clamp screw

Removal:

1. After loosening the threaded bolt (1) unhook the return spring for the throw-out fork and the turnbuckle of the clutch actuating mechanism.
Remove the two hexagon screws connecting the swivel support (10) and the spring plate (Fig. 29 — 5/2).
2. Remove the rubber cap (10) from the swivel support (7) and remove the snap ring (9) (see Fig. 29 — 5/3).
Then remove the spacer ring (8) and the swivel support (7) together with ball (6) and needle bearing (5) from the shaft (1) (Fig. 29 — 5/3).
3. Remove the fitted washer (4) (1 mm thick) as well as the rear rubber sleeve (3) from the shaft.
4. If necessary loosen the clamp screw for the lever (2) and drive out the lever (2) from the splines of the clutch pedal shaft (1) by means of a plastic hammer (Fig. 29 — 5/3).

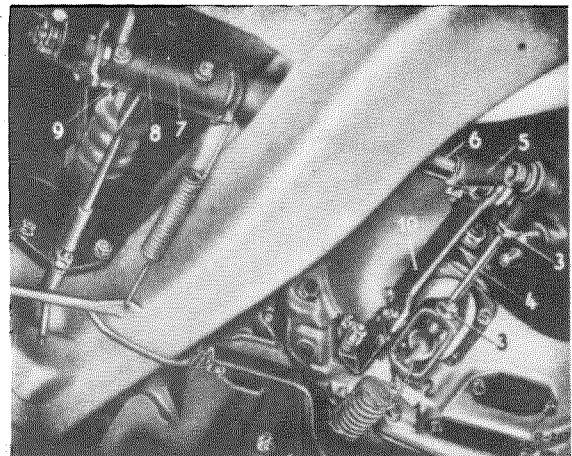


Fig. 29 — 5/2

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

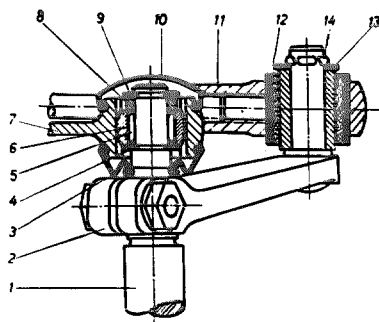


Fig. 29 — 5/3

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|----------------------|-----------------|
| 1 Clutch pedal shaft | 8 Spacer ring |
| 2 Lever and bolt | 9 Snap ring |
| 3 Rubber sleeve | 10 Rubber cap |
| 4 Fitted washer | 11 Pull rod end |
| 5 Needle bearing | 12 Buffer |
| 6 Ball | 13 Washer |
| 7 Swivel support | 14 Cotter pin |

Note: If in exceptional cases the pedal shaft has to be removed proceed as follows:

5. Remove the transmission (see Job. No. 26 — 1).
6. Unscrew the protective plate for the pedal system.
7. Unscrew the clamp screw (19) from the flange (12) (see Fig. 29 — 5/1) and remove the pedal shaft toward the inside.
8. Check all parts, and, if necessary, replace.

Installation:

9. If the clutch pedal shaft has been removed install the shaft from the inside into the splines of the flange (12) (see Fig. 29 — 5/1).
10. Install the clamp screw (19), the hexagon nut and lock washer, and tighten.
11. Install the protective plate for the pedal system.
12. Slide the lever (2) on the splines of the pedal shaft (see Fig. 29 — 5/1).
Check the position of the lever (2) on the clutch pedal shaft.

Note: The distance from the middle of the lever eye to the middle of the pedal shaft must be 45 ± 4 mm with the clutch pedal resting

against the top of the rubber stop (see Fig. 29 — 3/1). Correction is possible by changing the position of lever (2) on the splines of the clutch pedal shaft (1) (see Fig. 29 — 5/1).

13. Then clamp down the lever on the clutch pedal shaft by means of the clamp screw (20).
14. Install the rear rubber sleeve (3) and the fitted washer (4) on the clutch pedal shaft (see Fig. 29 — 5/3).
15. Install the ball (6) and needle bearing (5) in grease in the swivel support (7) and slide the swivel support onto the clutch pedal shaft (see Fig. 29 — 5/3).
16. Install the spacer ring (8) and the snap ring (9) (see Fig. 29 — 5/3).
Then press on the rubber cap (10).
17. After installing the transmission (see Job No. 26 — 1), screw the swivel support (12) to the spring plate (11) by means of the two hexagon screws (Fig. 29 — 5/4).

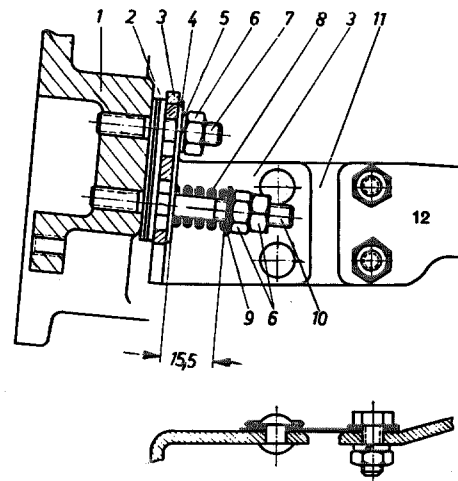


Fig. 29 — 5/4

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

18. Center the clutch pedal shaft in the mounting tube on the chassis base panel.

The shaft is centered horizontally by removing or adding shims (2) where the swivel support is fastened to the clutch housing (Fig. 29 — 5/4).

The shims are available in two thicknesses:

1 mm thick, part No. 120 293 01 88

2 mm thick, part No. 120 293 02 88

The shaft is centered vertically by moving the bracket (3) upward or downward.

Note: On later models different brackets are installed. Instead of the two slots these brackets have two standard bores, and the washer (4) is no longer required.

For the purpose of vertically adjusting the clutch pedal shaft the two bores in the swivel support (12) have been increased in diameter from 6.4 mm \varnothing to 7.0 mm. If a new bracket is installed, subsequently the two holes of the swivel support must be increased to a diameter of 7 mm.

19. Adjust the length of the damping spring (8) to 15.5 mm (spring pressure of approx. 40 kg) by turning the hexagon nut (6) in or out and by locking it with the second hexagon nut (6) while holding it with a second wrench.
20. Adjust clutch pedal free play (see Job No. 29 — 3).