

Center and Rear Brake Cables

Job No.

42—19

A. Replacement of Center Brake Cable

Removal:

1. Unscrew the wing nut (11) from the center brake cable (8) and remove together with the bracket (10) (see Fig. 42—18/1).
2. Pull the cotter pin (15) out of the cable guide plate of the brake lever (4). Pull the center brake cable (8) downward out of the brake lever (see Fig. 42—18/1).
3. Detach the return spring (14) from the brake cable guide (17) and from the bracket (20) at the chassis base panel (Fig. 42—19/1).

5. Pull out the cotter pin at the collar bolt (12) and remove the collar bolt (12) from the equalizer (16).

6. Pull the brake cable (8) out of the propeller shaft housing toward the rear.

Note: Before pulling out the old brake cable (8), attach a length of wire to it and pull out the cable through the propeller shaft housing together with the wire, in order to facilitate the installation of a new cable (8).

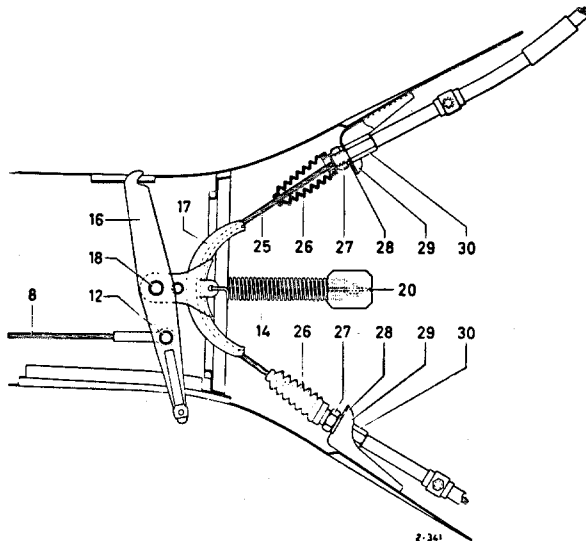


Fig. 42—19/1

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|--------------------------|----------------------|
| 8 Center brake cable | 25 Rear brake cable |
| 12 Bolt 8 × 18 × 15 | 26 Rubber sleeve |
| 14 Return spring | 27 Hexagon nut |
| 16 Equalizer | 28 Lock washer |
| 17 Brake cable guide | 29 Bracket |
| 18 Bolt 8 × 25 × 20 | 30 Brake cable guide |
| 20 Return spring bracket | |

4. Detach the equalizer (16) in the propeller shaft housing and pull it out toward the rear, together with the brake cable guide (17).

Installation:

7. Attach the new brake cable (8) to the wire in the propeller shaft housing and pull it through the housing by means of the wire (see Fig. 42—19/1).

8. Attach the brake cable (8) to the equalizer (16) by means of the collar bolt (12) and cotter the collar bolt (12).

9. Then attach the equalizer (16) in the shaft housing and attach the return spring (14) to the equalizer and the chassis base panel.

10. Insert the brake cable (8) with the guide lug and the threaded bolt in the brake lever (4). Then install the bracket (10) and screw in the wing nut (11) (see Fig. 42—18/1).

11. Install the cotter pin (15) in the cable guide plate of the brake lever (see Fig. 42—18/1).

12. Adjust the hand brake (see Job No. 42—19, Section C).

B. Replacement of the Rear Brake Cable

Removal:

1. Jack up the car at the rear and remove both rear wheels and both rear brake drums.
2. Remove the brake shoes on both sides and detach the rear brake cable from the brake levers (see Job No. 42 — 9).
3. Unscrew the pulley housing (8) from the brake anchor plate (4) and the support tube (7) and pull it out of the left and right brake anchor plates (Fig. 42 — 19/2).

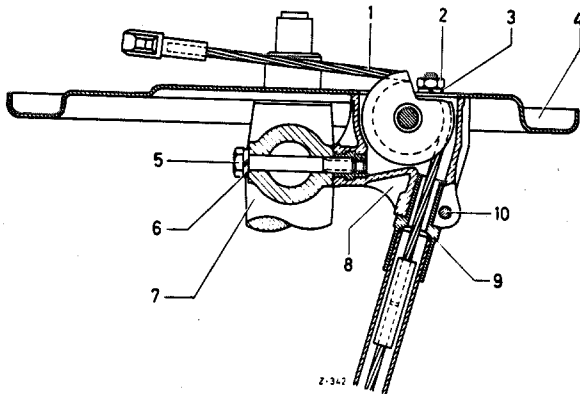


Fig. 42 — 19/2

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|----------------------|-------------------|
| 1 Rear brake cable | 6 Lock washer |
| 2 Hexagon nut | 7 Support tube |
| 3 Lock washer | 8 Pulley housing |
| 4 Brake anchor plate | 9 Cable guide |
| 5 Hexagon screw | 10 Clamping screw |

4. After loosening the hexagon nut together with the lock washer and pulling out the hexagon screw, remove the pulleys from the two pulley housings.
5. Loosen the clamping screw (10) and pull out the cable guide (9) from the two pulley housings (8).
6. Detach the return spring (14) from the brake cable guide (17) and from the bracket (20) at the chassis base panel (Fig. 42 — 19/3).
7. Detach the equalizer (16) at the propeller shaft housing and after releasing the hand brake pull it slightly toward the rear

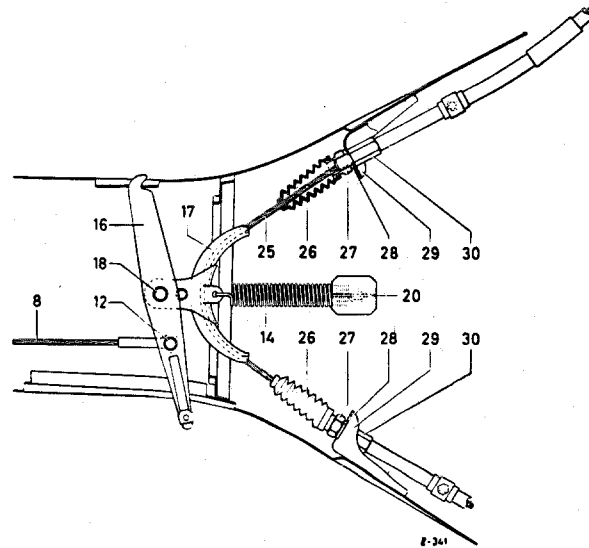


Fig. 42 — 19/3

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|--------------------------|----------------------|
| 8 Center brake cable | 25 Rear brake cable |
| 12 Bolt 8 × 18 × 15 | 26 Rubber sleeve |
| 14 Return spring | 27 Hexagon nut |
| 16 Equalizer | 28 Lock washer |
| 17 Brake cable guide | 29 Bracket |
| 18 Bolt 8 × 25 × 20 | 30 Brake cable guide |
| 20 Return spring bracket | |

together with the brake cable guide (17). If necessary, detach the center brake cable (8) from the equalizer (16).

8. Pull the cotter pin out of the collar bolt (18) and remove the collar bolt (18) from the equalizer (16).
9. Remove the brake cable guide (17) from the equalizer (16) and the rear brake cable (25) from the cable guide (17).
10. Loosen the hexagon nuts (27) fastening the cable guide (30) at the left and at the right and remove the cable from the two brackets (29).

Installation:

11. Attach the rear brake cable (25) to the cable guide (17) (see Fig. 42 — 19/3).

Note: The brake cable half with the two rubber sleeves must be at the right side and the bracket for the return spring at the cable guide must be at the top.

12. Attach the cable guide (17) to the equalizer (16) by means of the collar bolt (18).
13. Cotter the collar bolt (18) and attach the equalizer (16) in the propeller shaft housing.
14. Attach the center brake cable (8) to the equalizer by means of the collar bolt (12) and cotter the collar bolt.
15. Attach the return spring (14) to the cable guide (17) and to the bracket (20) at the chassis base panel.
16. Insert the rear brake cable in the left and right brackets (29) and tighten the hexagon nuts (27). Then slide the rubber sleeves (26) over the collars of the hexagon nuts.
17. Push the two ends of the brake cable through the pulley housings (8). Then fix the pulleys in the two pulley housings by means of the hexagon bolt and hexagon nut and lock washer (see Fig. 42—19/2).
18. Attach the two pulley housings at the left and right brake anchor plates by means of the two hexagon nuts (2) and lock washers and attach them to the support tube (7) by means of the hexagon screw (5) and lock washer (see Fig. 42—19/2).
19. Attach the two ends of the rear brake cable at the left and the right to the brake levers and install the brake shoes (see Job No. 42—9).
20. Clamp down the cable guide (9) in the pulley housing by means of the clamping screw (10) (see Fig. 42—19/2).
21. Grease the rear brake cable.
Do not grease excessively, since otherwise grease may get into the rear wheel brake.
22. Check the position of the rubber sleeves on the brake cable and adjust if necessary. The rubber sleeves must fit over the brake cable in the region of the support tubes and the cross strut (Arrows in Fig. 42—19/4).
23. Install the brake drums and the wheels, jack down the car and adjust the hand brake.

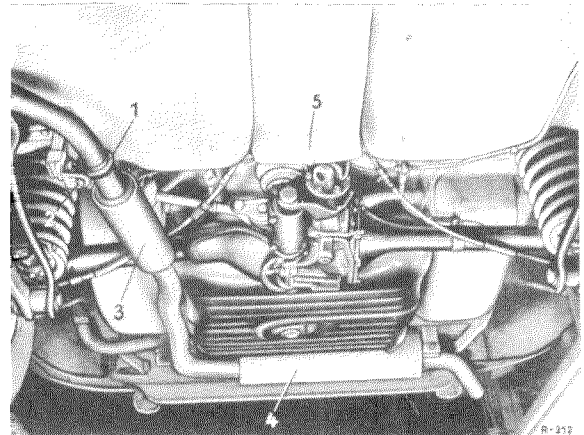


Fig. 42—19/4

- 1 Pipe clip
- 2 Hexagon screw
- 3 Pre-silencer
- 4 Main silencer
- 5 Check bore

C. Adjustment of the Hand Brake

1. Turn the wing nut at the hand brake lever to the right until the brake takes effect at the third or fourth notch of the ratchet.
 2. If the brake linings are so worn that the adjustment range of the wing nut is no longer sufficient to adjust the hand brake satisfactorily, the brake cable guide (17) at the equalizer (16) must be advanced by changing the position of the collar bolt (18) (see Fig. 42—19/3).
- Note:** When the hand brake is released, the rear wheel brakes must be free. The brake drums must not heat up noticeably when on a stretch of several miles the brakes are not actuated. The car must coast to a halt without any jerk.
- Note:** If the brake shoes are replaced, the brake cable guide must be returned to its original position.