

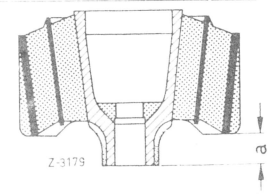
(Front axle installed)

107

Data

Distance "a"	under load
6 ± 1 mm	70 kp
10 ± 1 mm	135 kp

Fig. 1



Tightening Torques in kpm

Hex. bolts for rubber mounts of suspension on frame floor	M 10	4.5
Hex. nuts of lower shock absorber suspension	M 8	2
Hex. bolts of front engine mounting	M 12 x 1.5	3.5
Hex. nuts of track rod joints	M 10 x 1	3.5

Special Tools

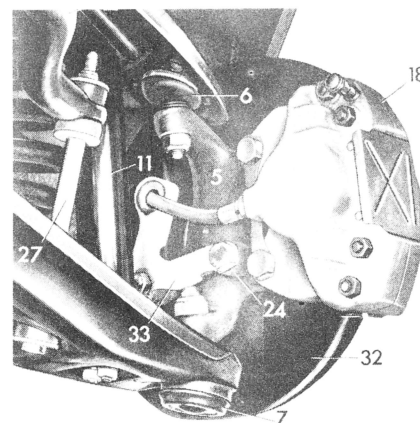
Suspension fixture for engine	107 589 00 61 00
Cradle for pit lift	115 589 06 63 00
Remover for track rod	136 589 12 33 00

Note

The front shock absorbers are simultaneously serving as a deflection stop for the front wheels. Therefore loosen shock absorber suspension only when the vehicle is on its wheels or when the lower control arm is supported.

Removal

- 1 Loosen lower shock absorber suspension right and left (Fig. 2).
- 2 Jack up vehicle at front and rear while making sure that all the four supporting stands are adjusted to the same height. Remove front wheels.
- 3 Attach suspension fixture (42) for engine (Fig. 3).



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Fig. 2

- | | |
|-------------------------|--------------------------------------|
| 5 Steering knuckle | 27 Torsion bar connecting linkage |
| 6 Guide joint | 32 Cover plate for front wheel brake |
| 7 Supporting joint | 33 Holder for brake hose |
| 11 Front shock absorber | |
| 18 Brake caliper | |
| 24 Steering knuckle arm | |

33.1 Removal, Installation and Inspection of Rubber Mounts for Front axle Suspension

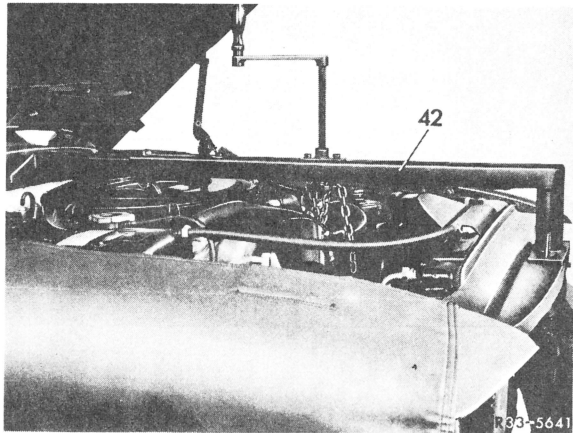


Fig. 3
42 Suspension fixture for engine 107 589 00 61 00

Caution! Use suspension fixture **115 589 10 61 00** for 4- and 6-cylinders only. Use suspension fixture **107 589 00 61 00** for 8-cylinder engines.

4 Completely remove lefthand shielding plate with engine shock absorber.

6 Loosen hex. bolts of front engine mounting right and left.

7 Separate brake line and brake hose from each other (Fig. 4). Close connections with rubber plugs.

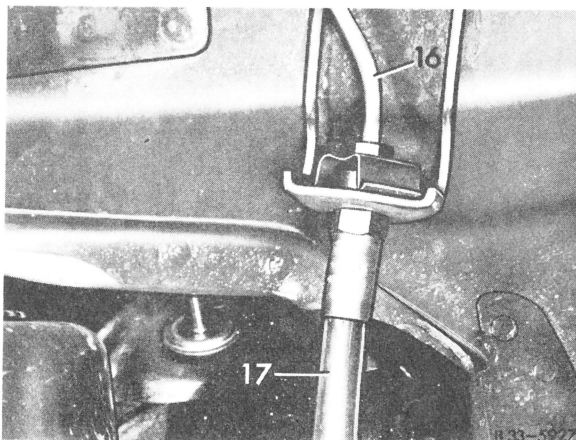


Fig. 4
16 Brake line 17 Brake hose

8 Remove track rods from both steering knuckle arms (Fig. 5).

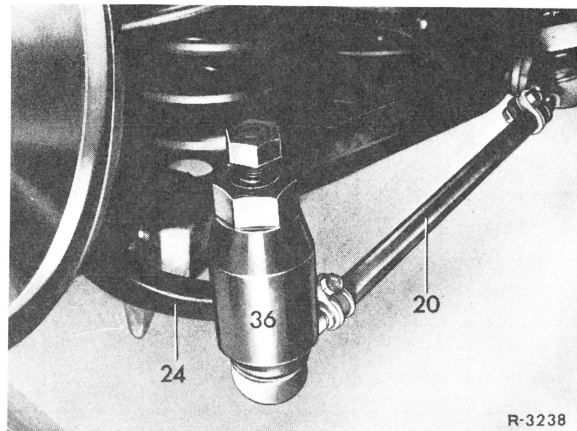


Fig. 5
20 Track rod 36 Remover 136 589 12 33 00
24 Steering knuckle arm

9 Loosen suspension of engine shock absorber on front axle carrier (Fig. 6).

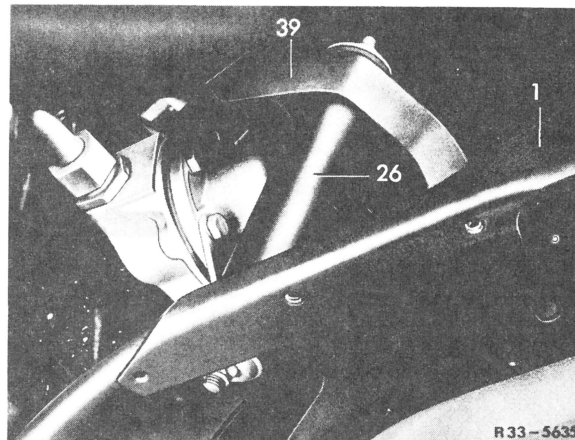


Fig. 6
1 Front axle carrier 39 Holder for engine shock absorber.
26 Engine shock absorber

10 Support front axle carrier with pit lift and cradle (43) together with supplementary member (43a) (Fig. 7).

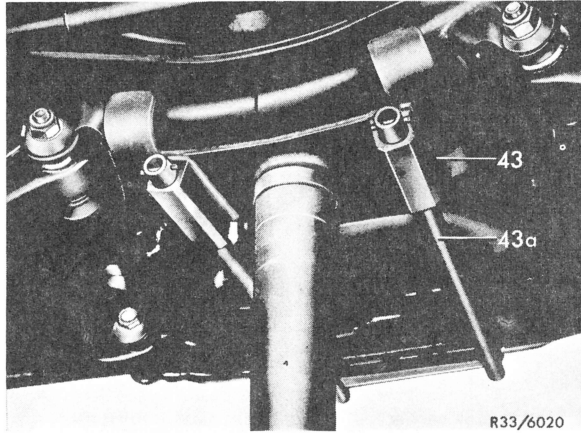


Fig. 7

- | | |
|--|--|
| 1 Front axle carrier | 43a Supplementary member
for removal and installation |
| 43 Cradle for front axle
carrier 115 589 06 63 00 | |

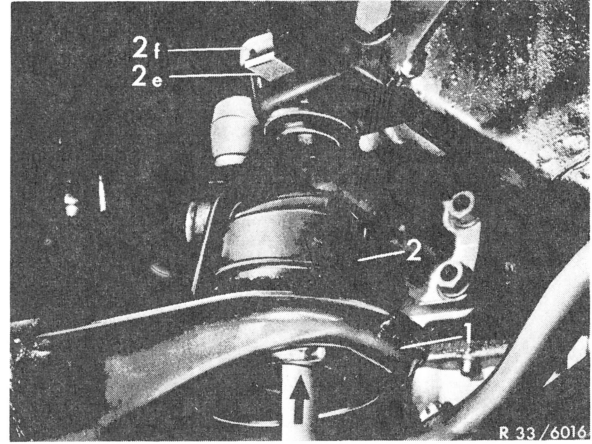


Fig. 9

- | | |
|--|-----------------------------|
| 1 Front axle carrier | 2e Fastening nut |
| 2 Rubber mount for
suspension of front axle | 2f Holder for fastening nut |

11 Loosen hex. bolts of four rubber mounts for suspending front axle to frame floor (Fig. 8).

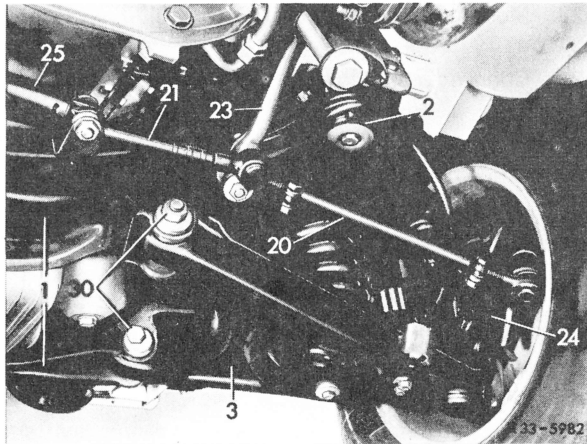


Fig. 8

- | | |
|----------------------|--------------------------------|
| 1 Front axle carrier | 23 Intermediate steering lever |
| 2 Rubber mounting | 24 Steering knuckle arm |
| 3 Lower control arm | 25 Steering damper |
| 20 Track rod | 30 Cam bolt |
| 21 Drag link | |

12 Lower pit lift for approx. 50 mm and knock rubber mount from below out of holding cups of front axle carrier (refer to arrow in Fig. 9).

13 Remove holder for fastening nut and take fastening nut from frame (Fig. 9).

Checking the Rubber Mounts

14 Check inner bushing for tight seat in rubber jacket (Fig. 10).

15 Check stop buffer for up and down deflections for cracks and damage (Fig. 10).

Installation

16 Slide stop buffer (2a) for deflections on rubber mount (Fig. 10).

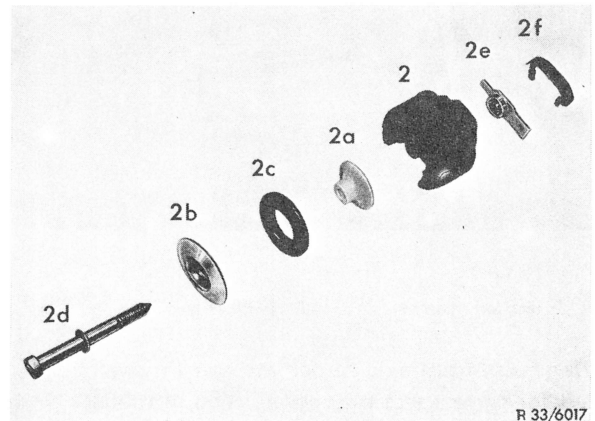


Fig. 10

- | | |
|----------------------------------|-----------------------------|
| 2 Rubber mount | 2d Hex. bolt with snap ring |
| 2a Stop buffer for deflection | 2e Fastening bolt |
| 2b Stop plate | 2f Holder for fastening nut |
| 2c Stop buffer for
deflection | |

33.1 Removal, Installation and Inspection of Rubber Mounts for Front axle Suspension

17 Introduce four fastening nuts into frame and insert holder (Fig. 11).

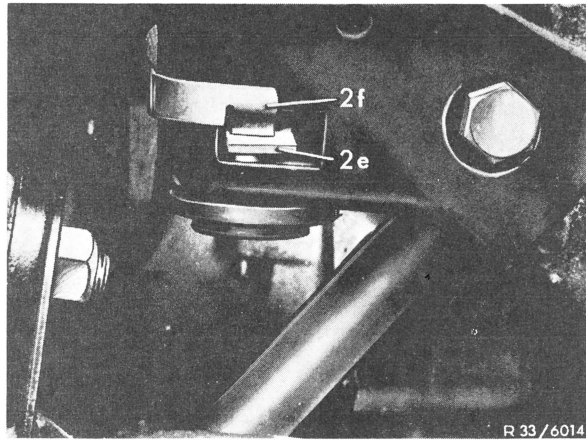


Fig. 11

2e Fastening nut 2f Holder for fastening nut

18 Coat rubber mount on circumference with slide fluid "Naphtolen" (Part No. 000 989 04 60). **Never use oil or grease!**

19 Push rubber mount into holding cups of front axle carrier (Fig. 12).

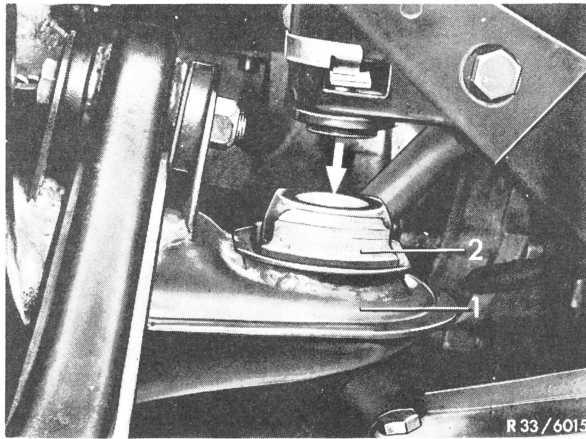


Fig. 12

1 Front axle carrier 2 Rubber mount

20 Raise front axle carrier with pit lift, watching out for correct seat of inner bushing of rubber mount in frame (Fig. 13).

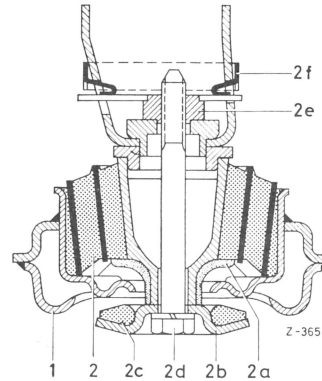


Fig. 13

1 Front axle carrier 2c Stop buffer for deflection
2 Rubber mount 2d Hex. bolt with snap ring
2a Stop buffer for deflection 2e Fastening nut
2b Stop plate 2f Holder for fastening nut

21 Mount front axle carrier with hex. bolts to frame floor.

22 Attach suspension of engine shock absorber to front axle carrier.

23 Mount track rod joints (46.1-530).

24 Connect brake hoses.

25 Remove engine suspension fixture. Attach hex. bolts of engine mounting.

26 Attach righthand shielding plate to exhaust manifold.

27 Install lefthand shielding plate together with engine shock absorber.

28 Screw lower shock absorber suspension right and left to lower control arm.

29 Lower vehicle.

30 Bleed brake system (42.0-010).

31 Adjust wheels on front axle (40.1-320).

32 Check adjustment of headlights (82.0-230).