

**Upper shock absorber suspension (Fig. 4)**

		Part No.	Height	Outer dia.	Rubber hardness ° Shore
Rubber ring	Upper	115 326 16 68	19	40	60 ± 5
	Lower	115 326 17 68	25		
Initial tension of the rubber rings		approx. 11.5 mm (limited by the thread on the piston rod or housing)			

**Tightening torque**

		Nm	(kpm)
Hexagonal nuts on the lower shock absorber suspension	M 10	45	(4.5)

**Special tools**

Hexagonal ratchet wrench SW 17	000 589 32 16 00
Retaining wrench	116 589 04 09 00

**Note:**

The rear shock absorbers simultaneously serve as a deflection stop for the rear wheels. For this reason only loosen the shock absorber suspension when the vehicle is standing on its own wheels or the semi-trailing control arm is supported.

Should the shock absorber have to be removed because of rumbling noises or premature leaking of the piston rod seal, the alignment of the suspension points inside the vehicle must be checked and if necessary corrected (32.1–120).

**Removal – Upper Suspension****Type 107.02**

- 1 Remove rear seat and seat back.
- 2 Remove cover plate (Fig. 1).
- 3 Unscrew hexagonal nuts on the upper suspension (5) and remove rubber ring (Figs. 2 and 6).

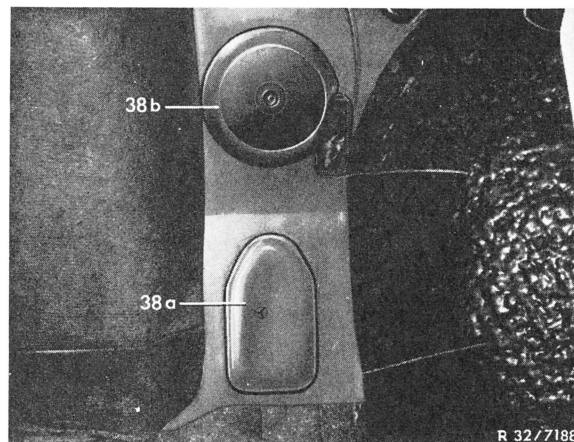


Fig. 1

- 38a Cover plate for spring strut connection  
38b Cover plate for shock absorber suspension

# 32.1 Removal and Installation of Rear Shock Absorber

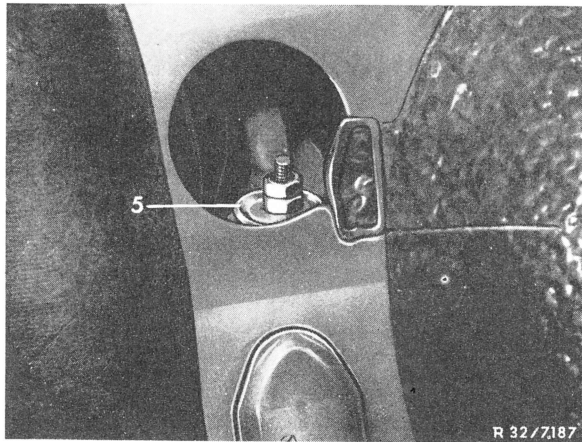


Fig. 2

5 Upper shock absorber suspension

## Type 107.04

4 On vehicles with removable hardtop, remove top and open cover flap for softtop.

5 Remove rear seat, unscrew and remove seat back.

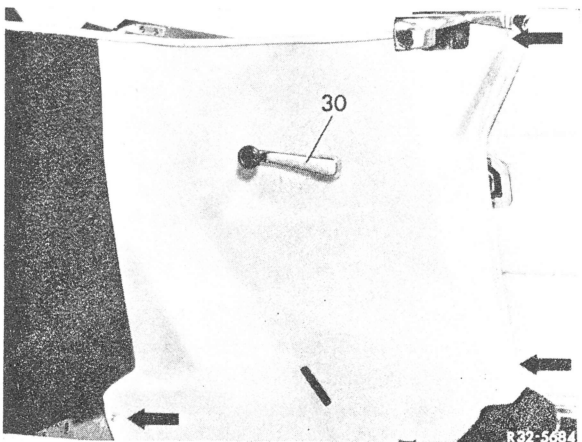


Fig. 3

30 Lever for locking cover flap for softtop

6 Remove softtop cover flap locking lever (30) and unscrew trim panel (see arrows in Fig. 3).

7 Unscrew hexagonal nuts on the upper suspension (5) and remove rubber ring (Figs. 4 and 6).

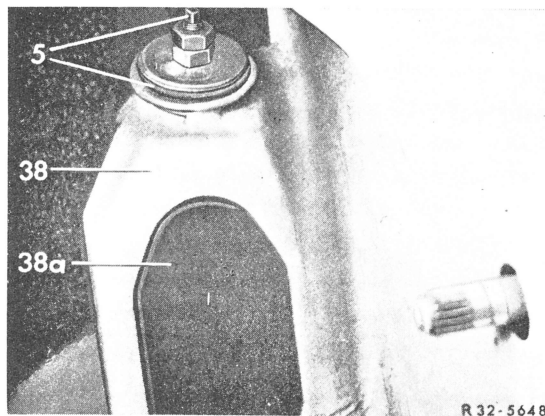


Fig. 4

5 Shock absorber  
38 Dome on frame floor

38a Cover plate

## Type 114, 115

8 From the trunk, unscrew the hexagonal nuts on the upper suspension, remove disc and rubber ring (Figs. 5 and 6).

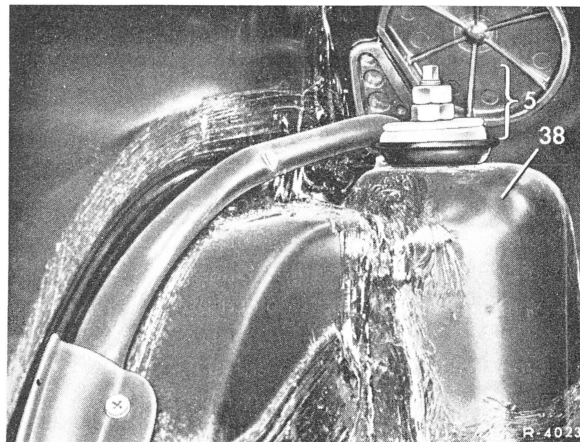


Fig. 5

5 Upper shock absorber suspension 38 Dome on frame floor

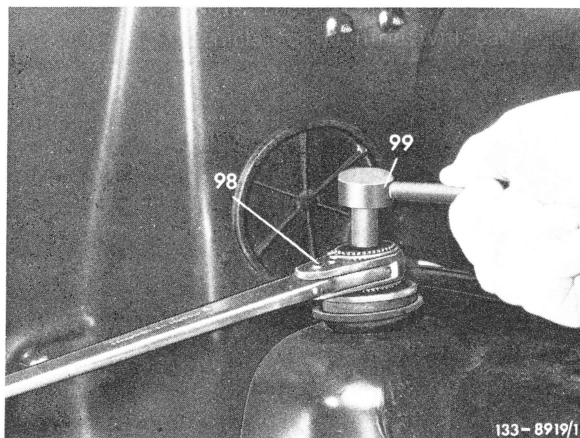


Fig. 6

98 Hexagonal ratchet wrench

99 Retaining wrench

**Removal — Lower Suspension**

**9** Unscrew hexagonal lower suspension nuts on the semi-trailing control arm and pull shock absorber down to remove (Fig. 7).

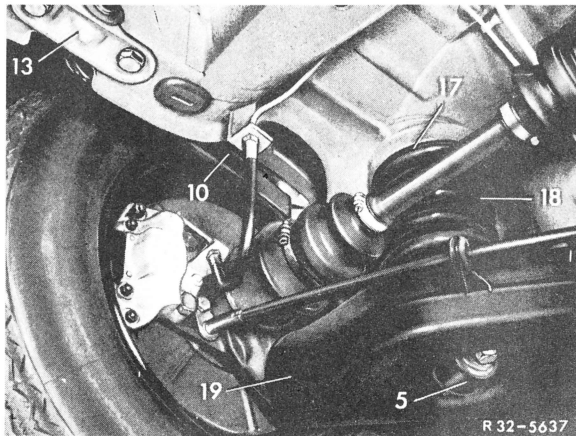


Fig. 7

- |                                    |                                 |
|------------------------------------|---------------------------------|
| 5 Shock absorber                   | 17 Rubber mount for rear spring |
| 10 Torsion bar                     | 18 Rear spring                  |
| 13 Fastening plate for torsion bar | 19 Semi-trailing control arm    |

**Installation**

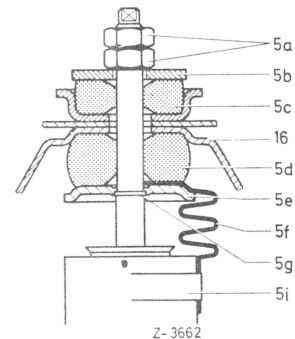
**10** Check suspension components. The fastening of the lower shock absorber suspension must be tightly seated in the rubber mount, which must not be turnable within the suspension eye.

**11** Insert shock absorber and mount upper suspension, making sure that the parts are correctly seated. Tighten the lower of the two hexagonal nuts to the end of the thread, then counterlock with the upper nut (Figs. 6 and 8).

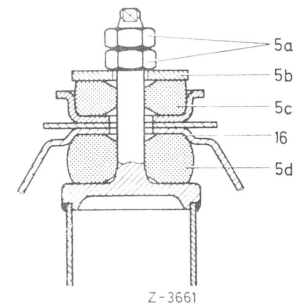
**Note:** The dust protection (5f) is installed only on vehicles for countries with bad road conditions.

**12** Mount lower suspension to the semi-trailing control arm (Figs. 7, 9 or 10). If vehicle is standing on its own wheels, jack the vehicle up at the rear until the semi-trailing control arm descends to the height of the fastening bracket on the shock absorber.

**13** On vehicles of 107 model series install trim panels, seat back and rear seat and if appropriate, the hardtop.



Bilstein shock absorber



F &amp; S shock absorber

Fig. 8

Upper suspension

- |                      |                        |
|----------------------|------------------------|
| 5a Hexagonal nut     | 5f Dust protection     |
| 5b Disc              | 5g Locking ring        |
| 5c Upper rubber-ring | 5i Tension band        |
| 5d Lower rubber ring | 16 Dome on frame floor |
| 5e Plate             |                        |

Fig. 9

Lower suspension on diagonal swing axle

- 5f Dust protection
- 5k Suspension eye
- 5l Rubber mount
- 5m Fastening bracket
- 19 Semi-trailing control arm

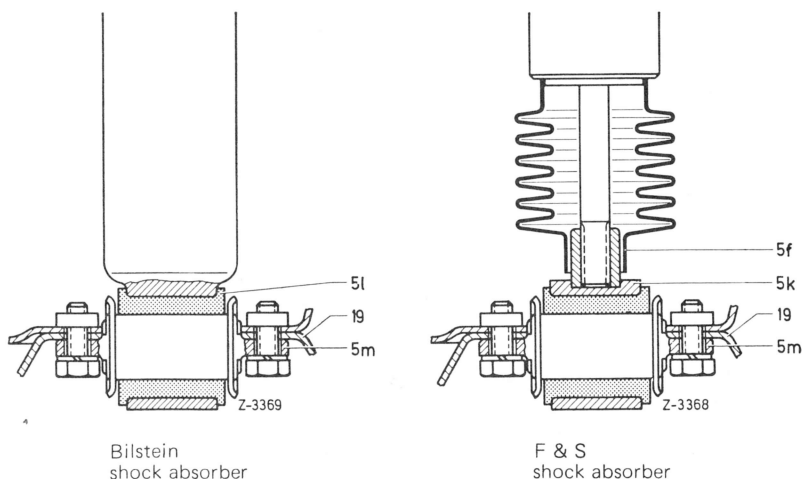
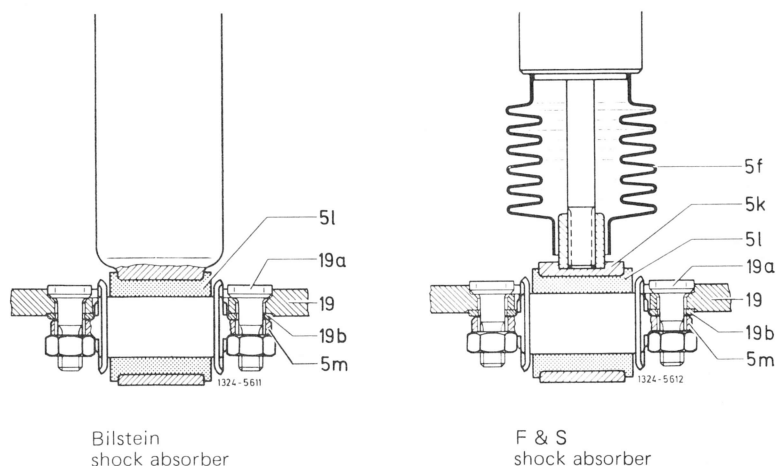


Fig. 10

Lower suspension on diagonal swing axle with anti-squat device

- 5f Dust protection
- 5k Suspension eye
- 5l Rubber mount
- 5m Fastening bracket
- 19 Semi-trailing control arm
- 19a Special bolt
- 19b Retaining disc



**Note:** On the lower shock absorber suspension, two hexagonal bolts are screwed into the semi-trailing control arm of the diagonal swing axle. (Fig. 9)

On the diagonal swing axle with anti-squat device, two special bolts are inserted into the semi-trailing control arm from above and retained by a pressed-on retaining disc (Fig. 10).

If necessary: Renew the special bolts on the lower shock absorber suspension in the semi-trailing control arm. With the shock absorber removed, knock the bolts out from below using a suitable punch.

After inserting new special bolts into the bores in the semi-trailing control arm, press retaining discs onto the shanks of the special bolts. Add approx. 5 washers with an inner diameter of 10.5 mm to the retaining disc and press the retaining disc down onto the shank of the special bolt by tightening the hexagonal nut (Fig. 11).

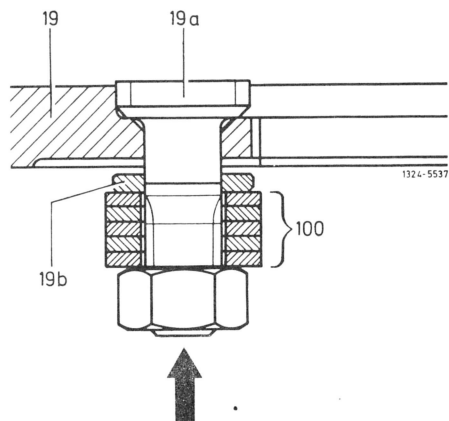


Fig. 11

- 19 Semi-trailing control arm
- 19a Special bolt
- 19b Retaining disc

100 Washers, inner dia. 10.5