Removal and Installation of Torsion Bar on Rear Axle (Diagonal Swing Axle)

Data

Model	Torsion Bar		Rubber mount on torsion bar mounting	
	Part No.	Diameter	Part No.	Bore dia.
107.024 (USA)	107 326 20 65 1)	19	107 326 14 81	17.5–0.5
107.044 (USA)	107 326 23 65 2)	18	116 326 08 81	16.5–0.5

1) Previous version 2) Present version

Tightening torques		Nm	(kpm)
Hexagonal bolts of torsion bar mounting	M 12 x 1.5	65	(6.5)
Ball joints for torsion bar connecting rods	M 10	45	(4.5)

Removal

1 Jack vehicle up at rear.

2 On vehicles with level control, separate connecting rod (7) for level control (3) from the lever (6) on the torsion bar (Fig. 1).

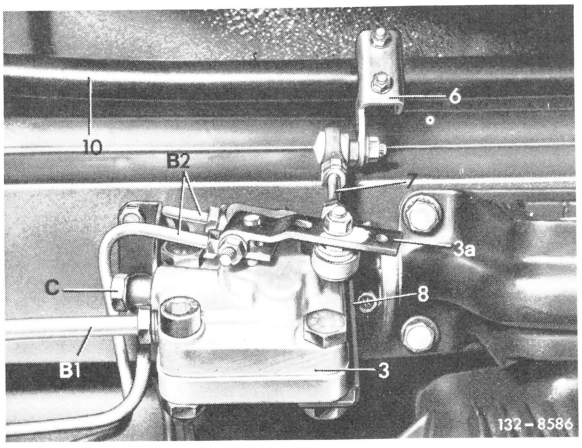

Fig. 1

B1 Pressure line oil pump – level control
B2 Pressure line level control – spring-loaded brake unit
C Return line level control – oil reservoir

3 Level control
3a Level control lever
6 Lever on torsion bar
7 Connecting rod
8 Level control holder
10 Torsion bar

3 Disconnect connecting rod (15) on right and left of torsion bar (Fig. 2).

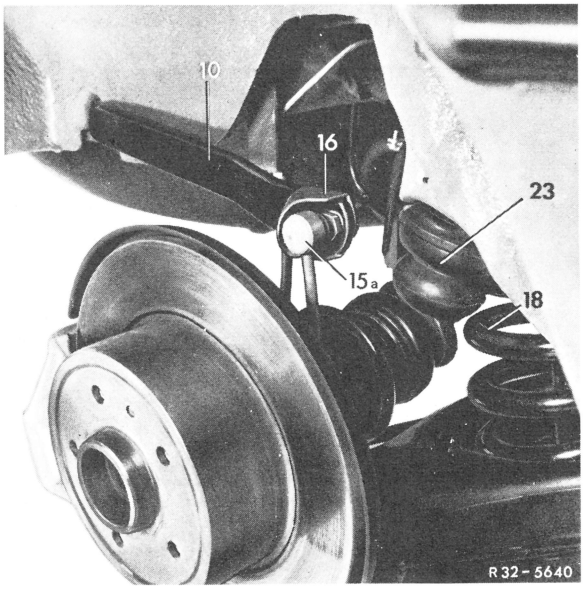

Fig. 2

10 Torsion bar
15a Ball joint of connecting rod
16 Deflection plate
18 Rear spring
23 Supplementary rubber spring (buffer stop)

4 Unscrew retaining clamp (13) on right and left of torsion bar mounting (Fig. 3).

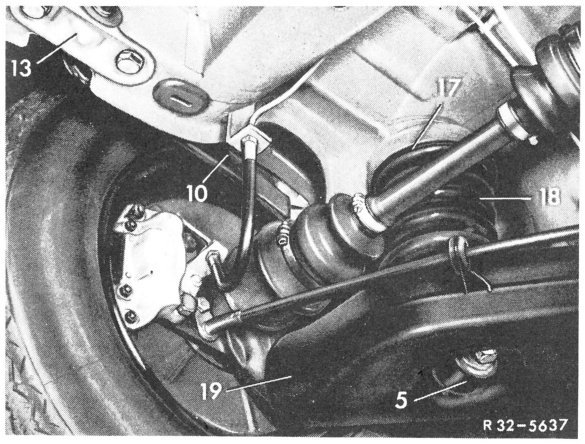

Fig. 3

5 Shock absorber
10 Torsion bar
13 Retaining clamp for torsion bar
17 Rubber mount for rear spring
18 Rear spring
19 Control arm

5 On types 114, 115, disconnect the breather pipes from the fuel tank. Unscrew the fuel supply and return line clamp from the frame floor in front of the fuel tank.

Detach the front fuel tank fastening, lower fuel tank slightly and support with a suitable prop (46) (Fig.4).

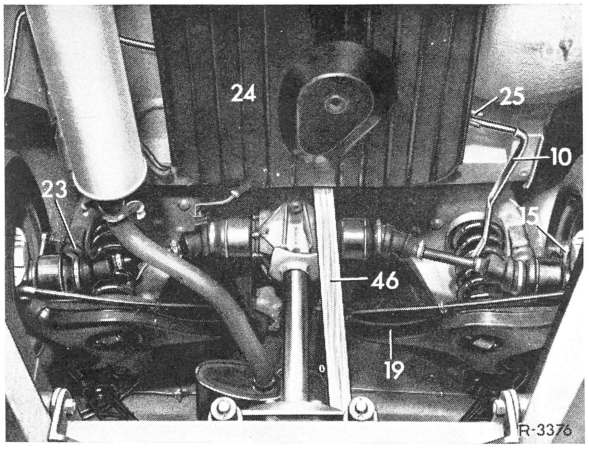

Fig. 4

10 Torsion bar
15 Connecting rod
19 Control arm
23 Supplementary rubber spring (buffer stop)
24 Fuel tank
25 Breather pipes for fuel tank
46 Prop

6 Detach the rubber rings of rear exhaust system attachment, lower exhaust pipe slightly and support.

7 Remove torsion bar downwards on type 107 and to the left vehicle side on types 114, 115.

Installation

8 Check the rubber mount (12) of the torsion bar mounting and the connecting rods (15) (Figs. 5 and 6).

9 If applicable, mount the lever for activating the level control on the torsion bar (32.3–660).

10 Insert torsion bar. Push the rubber mount onto the torsion bar with the slit uppermost. On types 114, 115, put the upper retaining clamp on top (Figs. 5 and 6).

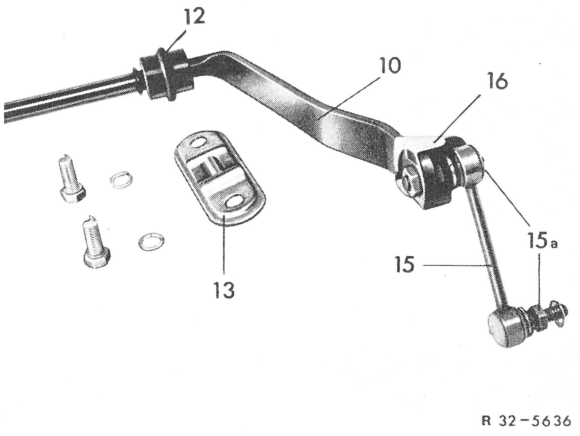

Fig. 5

Type 107

10 Torsion bar
12 Rubber mount
13 Retaining clamp
15 Connecting rod
15a Ball joints of connecting rod with spring washers
16 Deflection plate

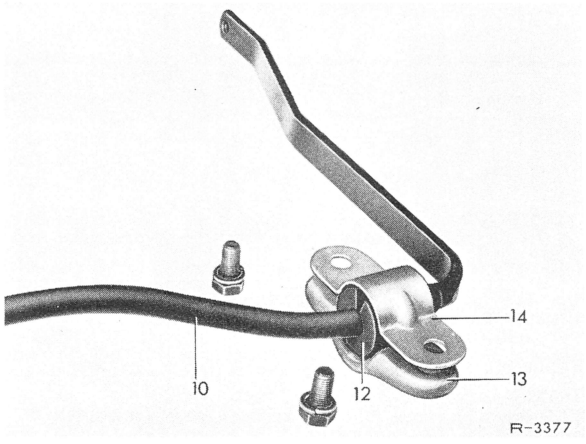

Fig. 6

Types 114, 115

10 Torsion bar
12 Rubber mount
13 Lower retaining clamp
14 Upper retaining clamp

11 Install torsion bar mounting on frame floor (Figs. 7 and 8).

12 Attach connecting rods to right and left of torsion bar (Figs. 7 and 8). If applicable, renew deflection plates.

13 On types 114, 115, connect breather pipes (25) to the fuel tank. Attach fuel supply and return line clamp on the frame floor in front of the fuel tank. Retighten fuel tank.

14 Mount rear exhaust pipe.

15 Lower vehicle.

16 Additionally on vehicles with level control:

a) Hook connecting rod (7) to the lever (6) on the torsion bar (Fig. 1).

b) Check vehicle level and correct if necessary (40.1–310).

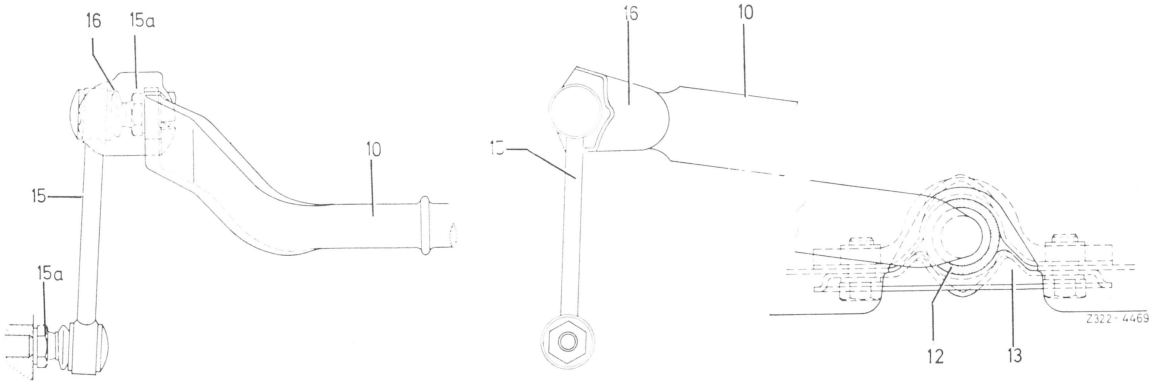

Fig. 7
Type 107

10 Torsion bar
12 Rubber mount
13 Retaining clamp
15 Connecting rod
15a Ball joints of connecting rod with spring washers
16 Deflection plate

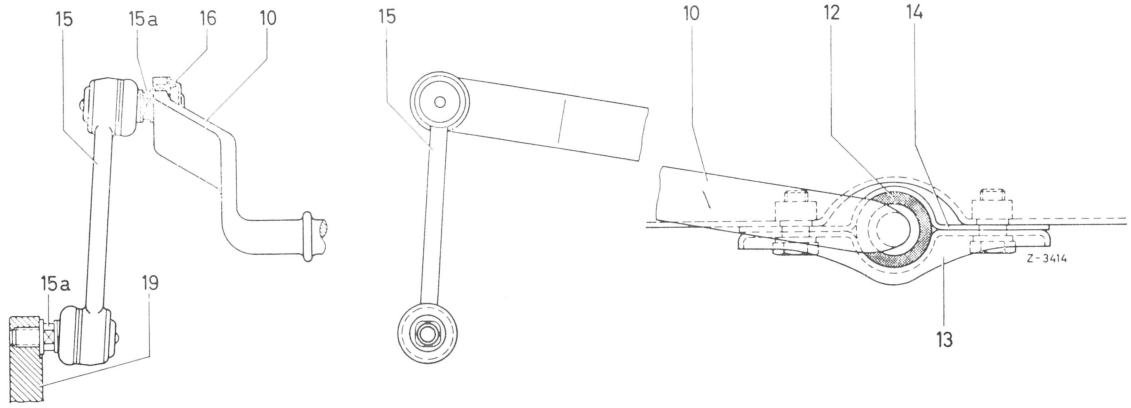

Fig. 8
Types 114, 115

10 Torsion bar
12 Rubber mount
13 Lower retaining clamp
14 Upper retaining clamp
15 Connecting rod
15a Ball pin with spring disc
16 Deflection plate
19 Control arm