

Tightening Torques

		Nm	(mkg)
Hex. nut for supporting joint	M 14 x 1.5	80	(8)
Hex. nut for guide joint	M 12 x 1.5	60	(6)
Hex. bolts of upper control arm bearing	M 12 x 1.5	60	(6)
Hex. bolts for steering knuckle arm	M 12 x 1.5	80	(8)

Special Tools

Spring tensioner for front spring	115 589 06 31 00
Remover for supporting and guide joint	115 589 02 33 00

Notes

When the work is done above the pit, do not mount supports for jacking-up the vehicle as usual on frame floor, but outside under lower control arms. The front shock absorbers should remain installed.

If, for example when working on the lifting platform, the lower control arm cannot be supported, secure by inserting spring tensioner (74) (Fig. 1 and 2).

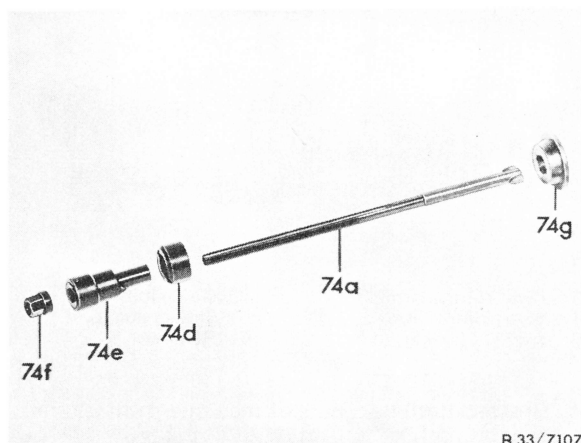


Fig. 1

74a Tensioning bolt
74d Lower thrust piece
74e Guide bushing
74f Collar nut
74g Clamp plate

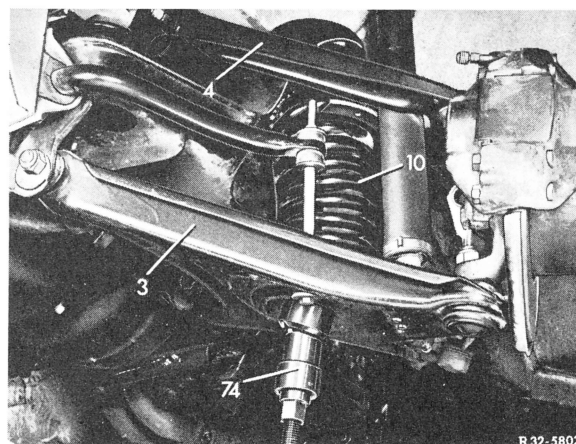


Fig. 2

3 Lower control arm
4 Upper control arm
10 Front spring
74 Spring tensioner

For this purpose, place the additional plate of spring tensioner against spring dome of front axle carrier (Fig. 3). In such a case, the shock absorber can also be removed.

33.1 Removal and Installation of Upper Control Arm

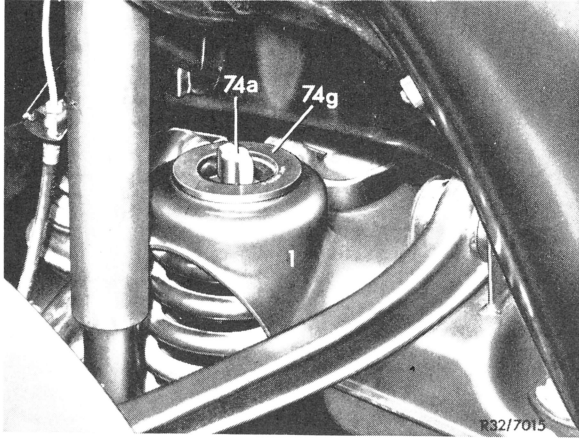


Fig. 3

1 Front axle carrier
74a Tensioning bolt
74g Clamping plate

Never loosen the hex. nuts of the guide joint and the supporting joint with the shock absorber removed without inserting the spring tensioner.

Removal

1 Unscrew steering knuckle arm from steering knuckle (Fig. 4).

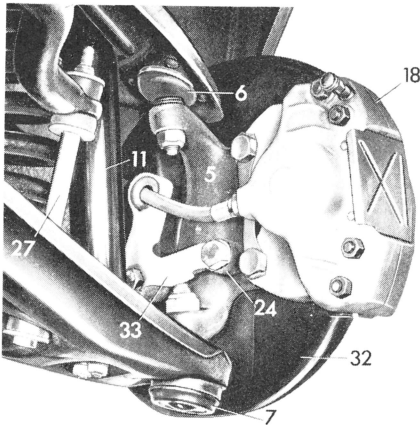


Fig. 4

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

2 Separate brake line and brake hose from each other, close connections with rubber plugs (Fig. 5). Pull holder from brake hose (Fig. 4).

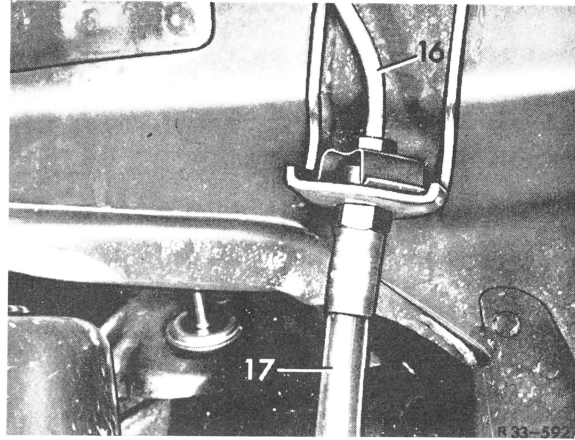


Fig. 5

16 Brake line
17 Brake hose

3 Unscrew hex. nut on guide joint (6) and on supporting joint (7). Remove guide joint from steering knuckle with remover (41) (Fig. 6).

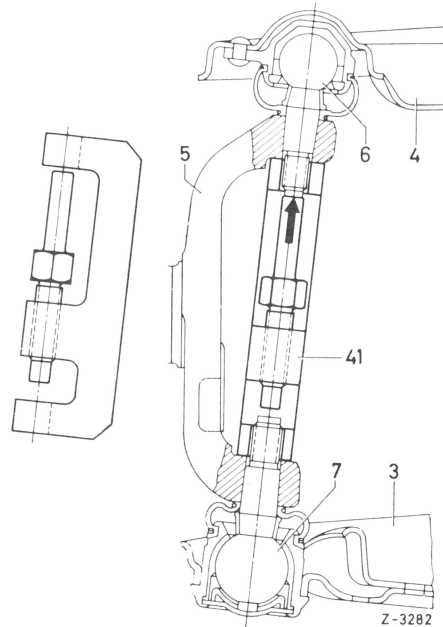


Fig. 6

3 Lower control arm
4 Upper control arm
5 Steering knuckle
6 Guide joint
7 Supporting joint
41 Remover

4 Unscrew both hex. nuts of the upper control arm mounting and remove control arm (Fig. 7).

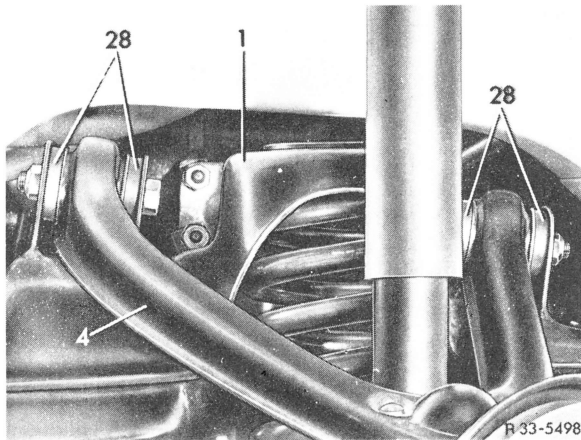


Fig. 7

- 1 Front axle carrier
28 Rubber slide bearing
4 Upper control arm

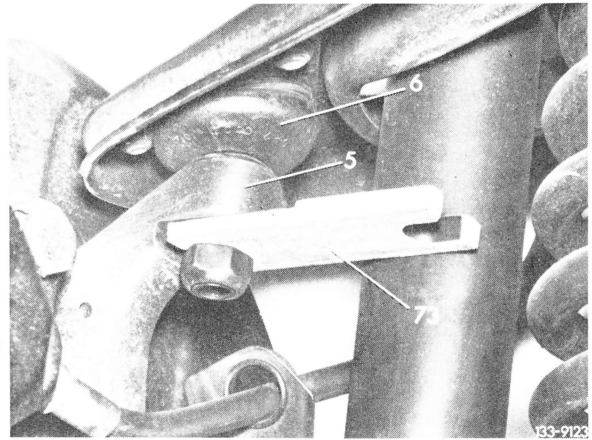


Fig. 8

- 5 Steering knuckle
6 Guide joint
73 Spacing piece

Installation

5 Attach upper control arm to front axle carrier. During insertion, make sure that the sealing lips of the rubber slide bearings are not damaged.

Caution! Mount the front bolt of the two hex. bolts always from the rear in forward direction, the rear bolt from the front in rearward direction.

6 Attach guide and supporting joint to steering knuckle. Make sure that the seats of the ball pin for the guide and supporting joint are free of grease.

7 If the ball pin on the guide or supporting joint keeps turning when the hex. nut is being tightened, insert a spacing piece and pull the ball pin cone into the steering knuckle by tightening the hex. nut (Fig. 8).

Then loosen hex. nut, remove spacing piece and tighten hex. nut to the prescribed torque.

The spacing piece can be self-made according to Fig. 9.

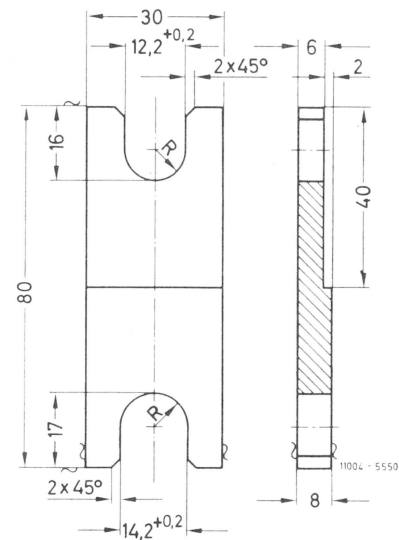


Fig. 9

8 Install steering knuckle arm using new holder for brake hose ("Brakes, Steering" 46.1-095 or 46.2-095, Fig. 4).

9 Connect brake pipe and brake hose to each other (Figs. 1 and 2).

10 Bleed braking system ("Brakes, Steering" 42.0-010).

11 Check and if necessary correct wheel adjustment at front axle (40.1-320).

12 Check headlight adjustment ("Electrical system" 82.1-230).