

**Tightening Torques**

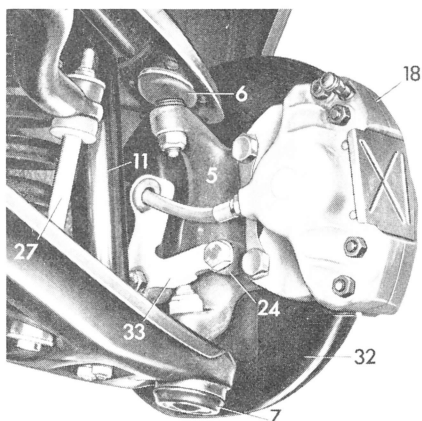
		Nm	(kpm)
Hex. nut for guide joint	M 12 x 1.5	60	(6)
Hex. nut for supporting joint	M 14 x 1.5	80	(8)
Hex. bolts for steering knuckle arm	M 12 x 1.5	80	(8)
Hex. bolts of cam bolts for lower control arm bearing	M 14 x 1.5	120	(12)
Hex. nuts of lower shock absorber suspension	M 8	20	(2)

**Special Tools**

Cradle for pit lift	115 589 03 63 00
Intermediate angle piece for pit lift	115 589 02 63 00
Remover for supporting and guide joint	115 589 02 33 00

**Note**

The front shock absorbers are serving simultaneously as 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. There is a safety stop between the upper control arm and the front axle carrier.



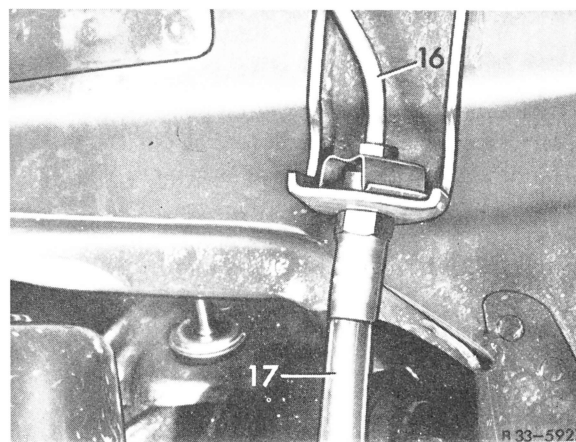
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Fig. 1

- |                         |                                      |
|-------------------------|--------------------------------------|
| 5 Steering knuckle      | 27 Torsion bar connection 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 |                                      |

**Removal**

- 1 Loosen lower shock absorber suspension (Fig. 1).
- 2 Jack-up vehicle, remove front wheel.
- 3 Unscrew steering knuckle arm from steering knuckle (Fig. 1).
- 4 Separate brake line and brake hose from each other (Fig. 2). Close connections with rubber plugs. Pull holder from brake hose (Fig. 1).



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Fig. 2

16 Brake line

17 Brake hose

# 33.1 Removal and Installation of Lower Control Arm

5 Remove front spring (32.1–200).

6 Unscrew hex. nuts on supporting and guide joint. Remove supporting joint from steering knuckle with pertinent fixture, remove lower control arm (Fig. 3).

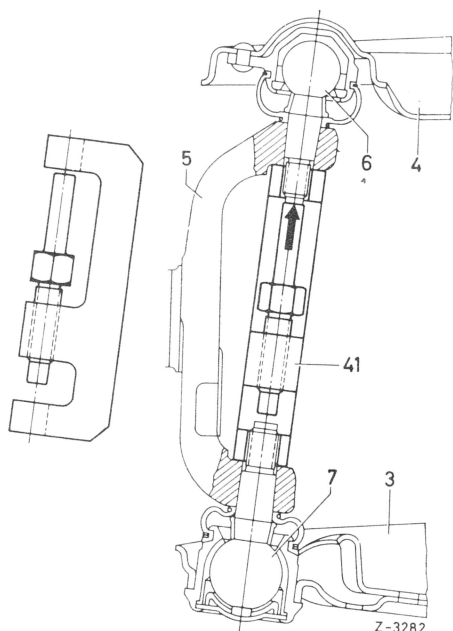


Fig. 3

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

## Installation

7 Attach supporting and guide joint with new, self-locking hex. nuts to steering knuckle. Make sure that the seats of the ball pins for the supporting and guide joint are free of grease.

8 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 into the steering knuckle by tightening the hex. nut (Fig. 4)

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. 5.

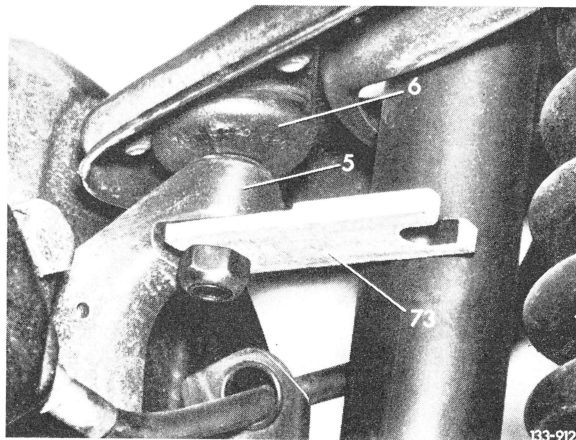


Fig. 4

5 Steering knuckle  
6 Guide joint

73 Spacing piece

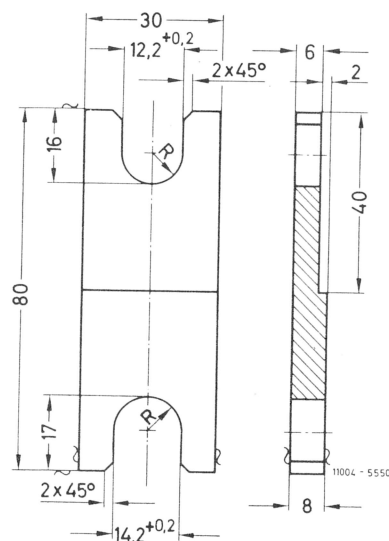


Fig. 5

9 Install front spring (32.1–200).

10 Attach the lower shock absorber suspension to the control arm (32.1–100).

**Attention!** Only tighten the hex. nuts of the eccentric bolt for the lower control arm **if the vehicle is in driving condition and standing on its own wheels.**

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3 Lower control arm	24 Steering knuckle arm
7 Supporting joint	38 Protective cap
20 Track rod	