

## 33-510 Removal and installation of lower control arm

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Tightening torques	Nm
Hex. nut for guide joint	60
Hex. nut for supporting joint	80
Hex. bolts for steering knuckle arm	80
Hex. nuts of cam bolts for lower control arm bearing	120
Hex. nut of lower shock absorber suspension	20

### 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

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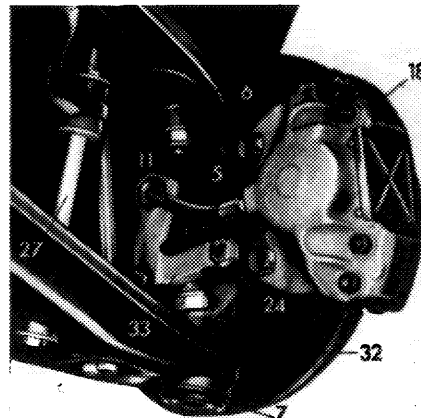
The front shock absorbers are serving simultaneously as deflection stop for the front wheels. Therefore loosen shock absorber suspension only when the vehicle is on its wheels or when the lower control arm is supported. There is a safety stop between the upper control arm and the front axle carrier.

### Removal

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- 1 Loosen lower shock absorber suspension.
- 2 Jack-up vehicle, remove front wheel.
- 3 Unscrew steering knuckle arm from steering knuckle.

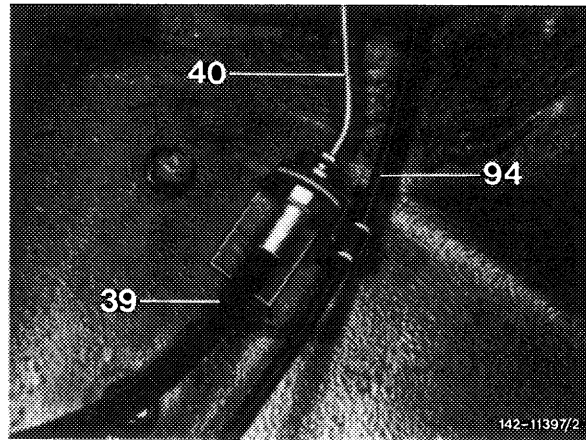
- |                         |   |
|-------------------------|---|
| 5 Steering knuckle      | 27 Torsion bar connection linkage       |
| 6 Guide joint           | 32 Cover plate for front wheel<br>brake |
| 7 Supporting joint      | 33 Holder for brake hose                |
| 11 Front shock absorber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



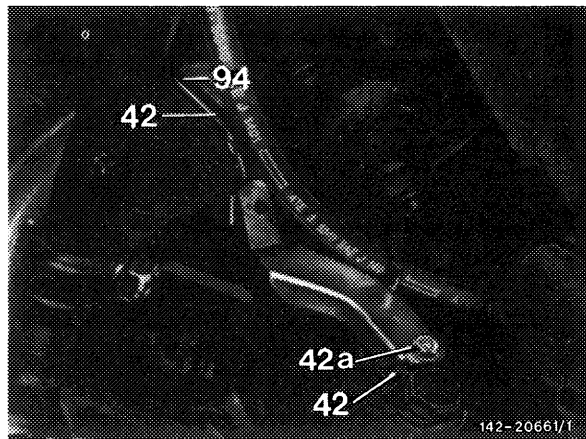
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4 Separate brake line (40) and brake hose (39) from each other. Close connections with rubber plugs.

**Note:** On model 107 with brake lining wear indicator, pull cables of clip sensors from plug connection on fixed caliper.

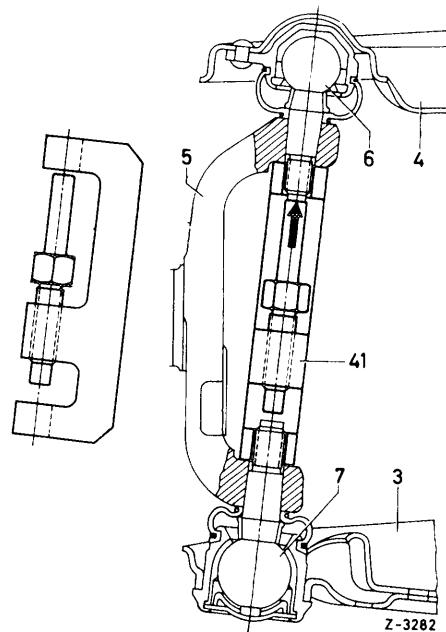


**Note:** On vehicles model 107 with ABS, remove rpm sensor (42) from steering knuckle by loosening hex. head screw (42a) (42-712).



5 Remove front spring (32-200).

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



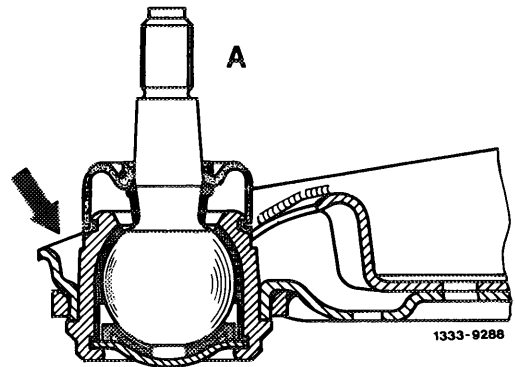
- 3 Lower control arm
- 4 Upper control arm
- 5 Steering knuckle
- 6 Guide joint
- 7 Supporting joint
- 11 Remover

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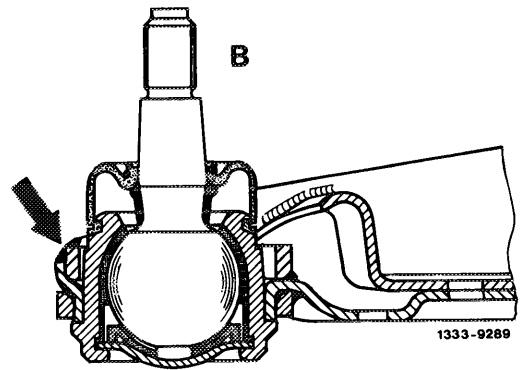
## Installation

**Note:** Starting March 1980 the lower control arms in range of supporting joint were reinforced by a welded-in ring (arrows). These changed control arms may also be used instead of the version installed up to now.

1st version up to February 1980  
A Lower control arm



2nd version starting March 1980  
B Lower control arm

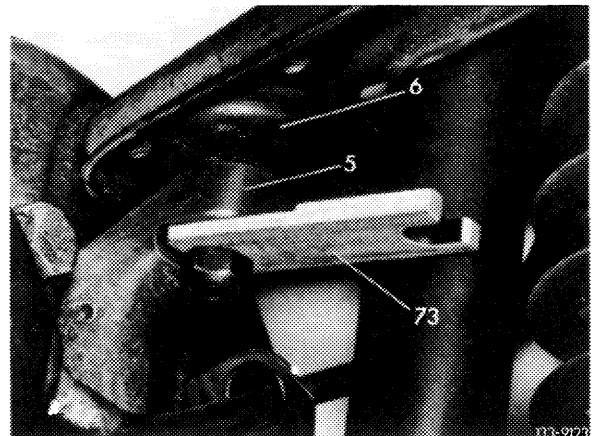


7 Attach supporting and guide joint with new, self-locking hex. nuts to steering knuckle. Make sure that the seats of the ball pins for the supporting and guide joint are free of grease.

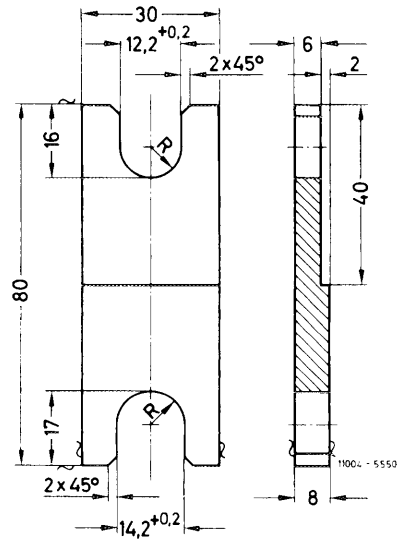
8 If the ball pin on the guide or supporting joint keeps turning when the hex. nut is being tightened, insert a spacing piece and pull the ball pin into the steering knuckle by tightening the hex. nut.

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

5 Steering knuckle  
6 Guide joint  
73 Spacing piece



The spacing piece can be self-made.



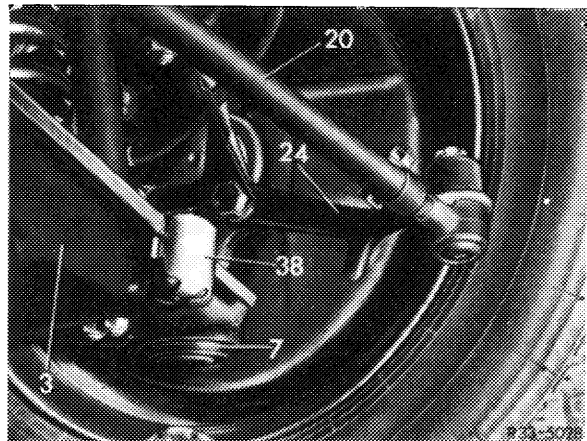
9 Install front spring (32–200).

10 Attach the lower shock absorber suspension to the control arm.

**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.**

11 Install steering knuckle arm using new holder for brake hose (46–095).

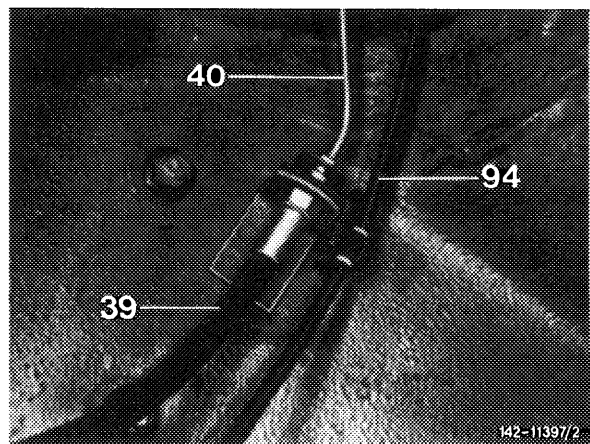


- 3 Lower control arm
- 7 Supporting joint
- 20 Track rod
- 24 Steering knuckle arm
- 38 Protective cap

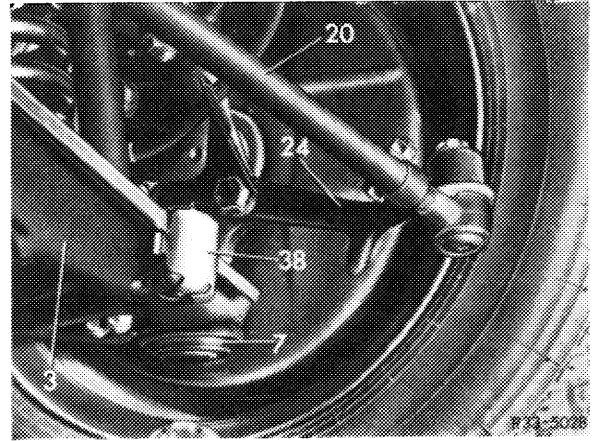
12 Connect brake pipe and break hose to each other.

On model 107, mount brake lining wear indicator and rpm sensor for ABS.

13 Bleed braking system (42–010).



14 Check protective cap (38) for steering lock on lower control arm (3). Mount new protective cap, if required.



15 Check control arm position of front axle.

16 Check wheel adjusting values on front axle (40–320).

17 Check headlight adjustment.