

## 33-512 Removal, disassembly, assembly and installation of lower control arm

Tightening torques	Nm
Hex. nut of supporting joint	80
Eccentric bolt of lower control arm bearing	180
Twelve-point screws of lower shock absorber suspension	20
Hex. screws for attaching spring retainer to lower control arm	20
Hexagon fitted screw for fastening brake support to lower control arm	50

### Special tools

Remover for supporting joint		116 589 09 33 00
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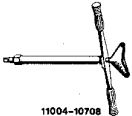
Spring tensioner for front spring		126 589 07 31 00
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Pipe socket wrench insert 32 mm 1/2" square 445 mm long for spring tensioner		201 589 01 09 00
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Wrench for upper shock absorber suspension		126 589 01 09 00
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### Self made tool

Spacing plate	refer to illustration item 17
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### Note

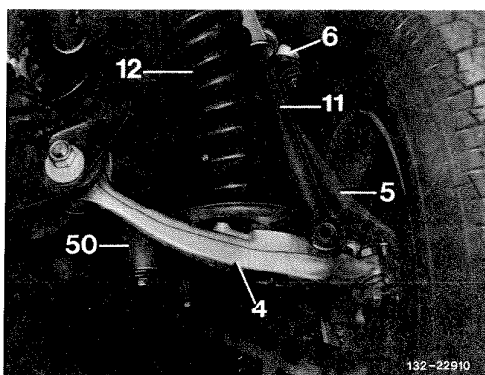
Tighten eccentric bolt of lower control arm bearing only when vehicle is resting on its wheels ready for driving. If this bearing is tightened without load on wheels, wrong values for control arm position would result.

The front shock absorber serves simultaneously as a deflection stop of front wheel. For this reason, release shock absorber suspension only when the vehicle is resting on its wheels or when the lower control arm is supported. With the shock absorber released, the upper control arm rests on end stop at front end. For assembly of upper suspension, either place vehicle on its wheels or lift axle half at lower control arm. Replace self-locking bolts and nuts on principle.

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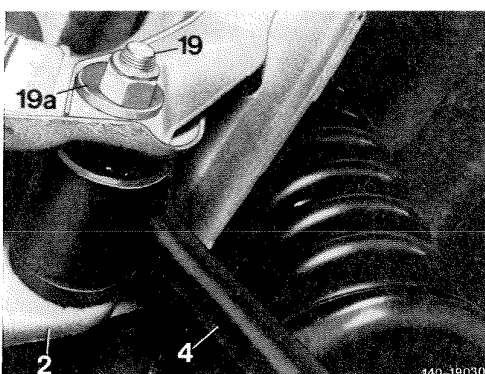
### Removal

- 1 Remove front shock absorber (11) (32-100).
- 2 Remove front spring (12) (32-200).



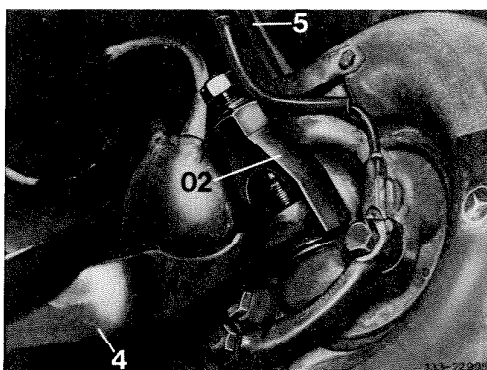
- 3 On bearing of lower control arm, mark position of eccentric bolt in relation to frame cross member.

- 4 Loosen eccentric bolt (19) on bearing of lower control arm and unscrew.



- 2 Front end
- 4 Lower control arm
- 19 Eccentric bolt
- 19a Eccentric disc

- 5 Push supporting joint from lower control arm.

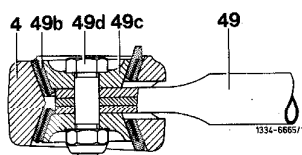


- 4 Lower control arm
- 5 Steering knuckle
- 02 Remover

- 6 Loosen hex. screws for fastening spring retainer and remove spring retainer.

- 7 Loosen hex. head fitted screw of brake support bearing and remove lower control arm from supporting tube.

- 4 Lower control arm
- 49 Supporting tube
- 49b Rubber bearing
- 49c Disc washer
- 49d Hex. head fitted screw



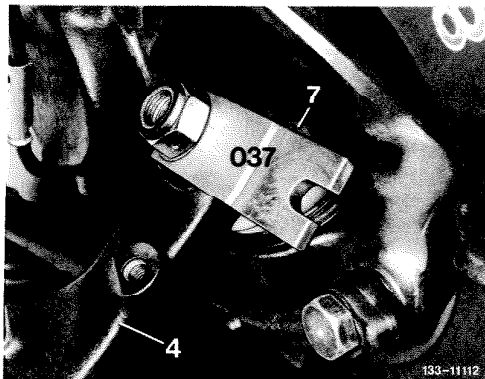
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### Installation

8 Mount control arm on supporting joint.

#### Attention!

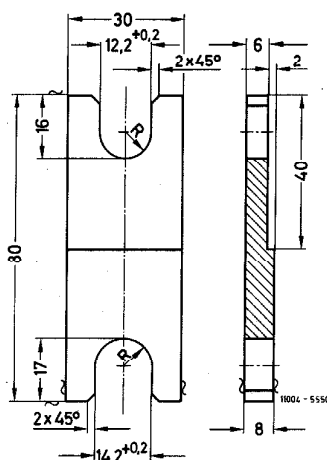
Use new self-locking hex. nut only.



9 If ball pin is turning along on supporting joint when tightening hex. nut, insert spacing plate (037) and pull cone of ball pin into control arm when tightening hex. nut.

Then tighten hex. nut to specified torque.

The spacing plate can be self-made.

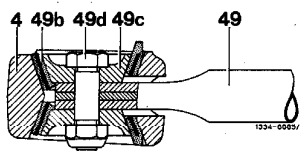


10 Mount supporting tube with new rubber bearings on lower control arm, making sure that supporting tube rests in cutouts of rubber bearings.

Do not yet tighten hex. head fitted screw.

11 Fasten spring retainer with new self-locking hex. screws.

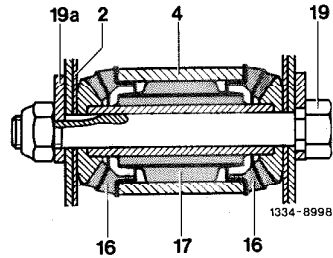
- 4 Lower control arm
- 49 Supporting tube
- 49b Rubber bearing
- 49c Disc washer
- 49d Hex. head fitted screw



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12 Mount bearing of lower control arm to frame cross member.

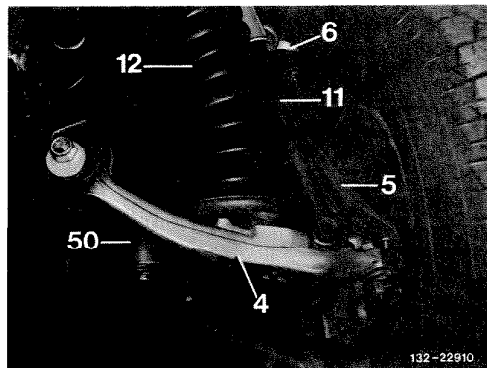
- 2 Frame cross member
- 4 Lower control arm
- 16 Rubber bearing
- 16a Clamping sleeve
- 19 Eccentric bolt
- 19a Eccentric disc



13 Tighten hex. head fitted screw of brake support bearing on lower control arm to specified torque.

14 Install front spring (12) (32-200).

15 Mount front shock absorber (11) (32-100).

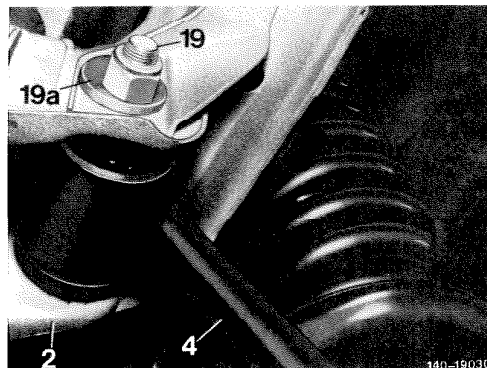


16 Set eccentric bolt of camber adjustment to previously applied mark and tighten.

### Attention!

If eccentric bolt has not been marked during removal, move eccentric bolt into center position for initial adjustment.

- 2 Front end
- 4 Lower control arm
- 19 Eccentric bolt
- 19a Eccentric disc



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- 17 Check vehicle level on front axle (40-300).
- 18 Check adjustment of front wheels (40-320).
- 19 Check adjustment of headlights.