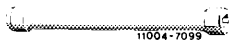
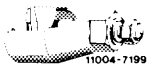
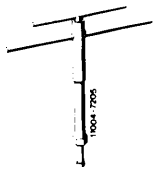
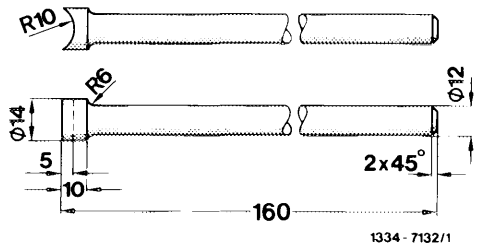
Tightening Torques	Nm
Hex. nut of supporting joint	80
Eccentric bolt of lower control arm bearing	180
Hex. nut of track rod ball joint	35
Double hex. screws of lower shock absorber suspension	20
Hex. head screws of control arm bearing on frame side member	140
Hex. head screws for fastening spring plate to lower control arm	20

Special Tools

Puller for ball joint of track rod		186 589 10 33 00
Spring tensioner for font spring		116 589 06 31 00
Tubular socket 24 mm 1/2" square for spring tensioner		116 589 01 09 00
Pressing-off device for supporting joint		116 589 09 33 00
Wrench for upper shock absorber suspension		107 589 00 09 00

Self-made Tools

Adjusting gauge for basic adjustment of caster		
Spacing plate		refer to Fig. item 17

Note

Tighten eccentric bolt of lower control arm bearing only if vehicle is resting on its wheels in ready-to-drive condition. If this bearing is tightened with the wheels free of respective load, wrong values of control arm position would result.

The front shock absorber serves simultaneously as a deflection stop of front wheel. For this reason, loosen shock absorber suspension only if the vehicle is resting on its wheels or 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. Renew self-locking screws and nuts on principle!

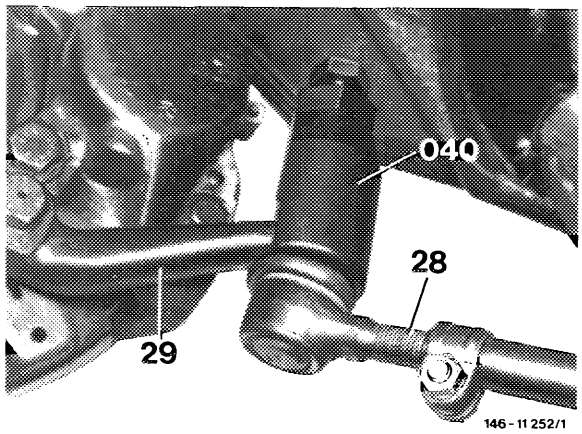
Removal

1 Remove front shock absorber (32–100), making sure that the upper shock absorber suspension is released first.

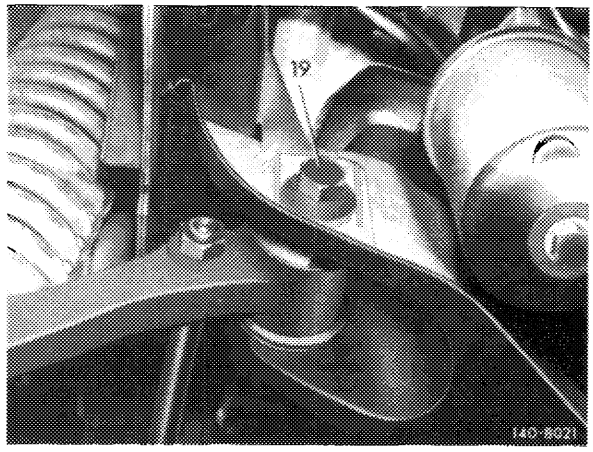
2 Jack-up vehicle at front, remove front wheel.

3 Remove front spring (32–200).

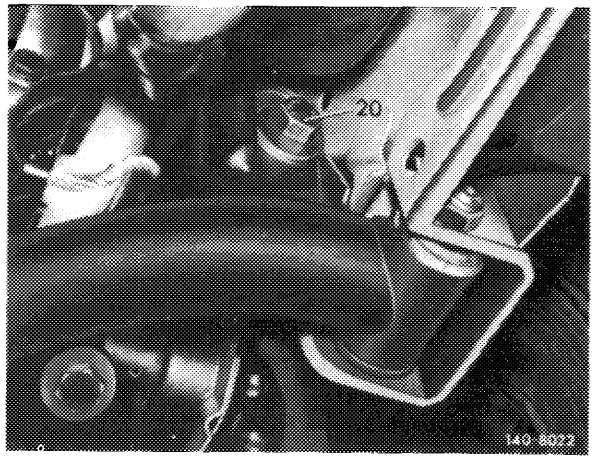
4 Loosen track rod on pitman arm and remove (46–540).



5 Mark position of both cam bolts on bearing of lower control arm in relation to frame cross member or cross yoke.



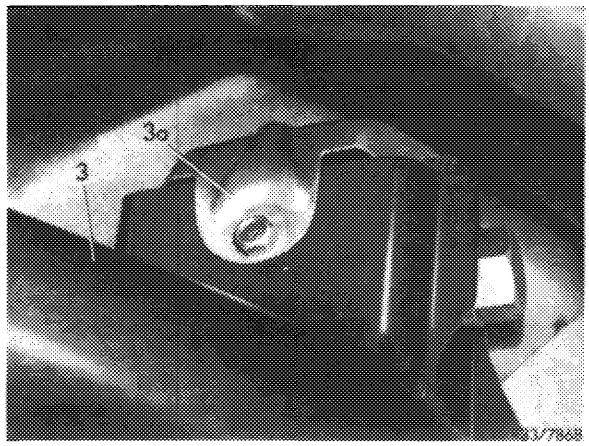
19 Front cam bolt (camber adjustment)



20 Rear cam bolt (caster adjustment)

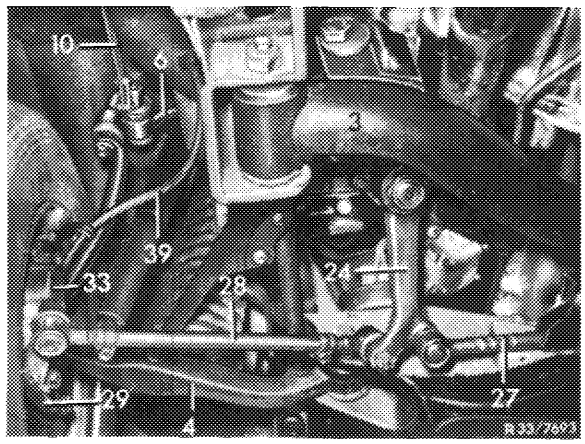
6 Unscrew cover on cross yoke.

7 Loosen cam bolt on front and rear bearing of lower control arm and knock out.



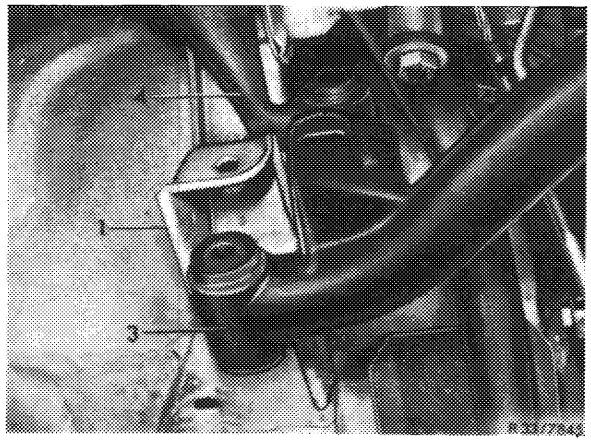
3 Cross yoke
3a Shielding plate

8 Loosen hex. screw of cross yoke bearing and remove; loosen screw at opposite end.



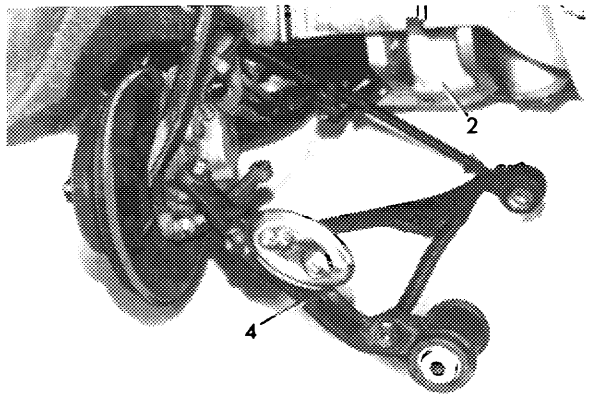
3 Cross yoke
4 Lower control arm
6 Upper control arm
10 Torsion bar
24 Pitman arm
27 Drag link
28 Track rod
29 Pitman arm
33 Brake caliper
39 Brake hose

9 Pull cross yoke slightly downwards.



1 Frame side member
3 Cross yoke
4 Lower control arm

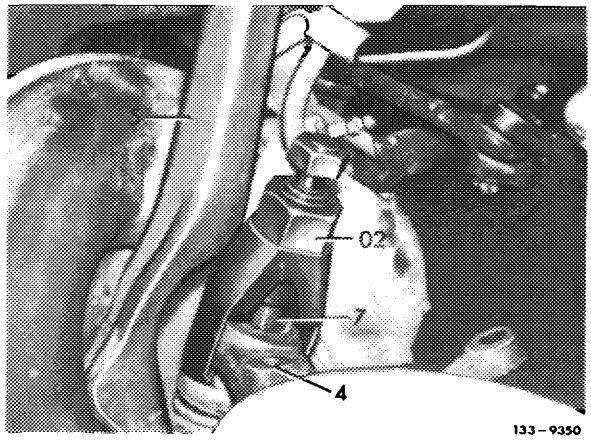
10 Remove cross yoke from frame cross member and swivel in forward direction.



2 Frame cross member
4 Lower control arm

133-9349

11 Force supporting joint from lower control arm.



4 Lower control arm
5 Steering knuckle
7 Supporting joint
02 Remover

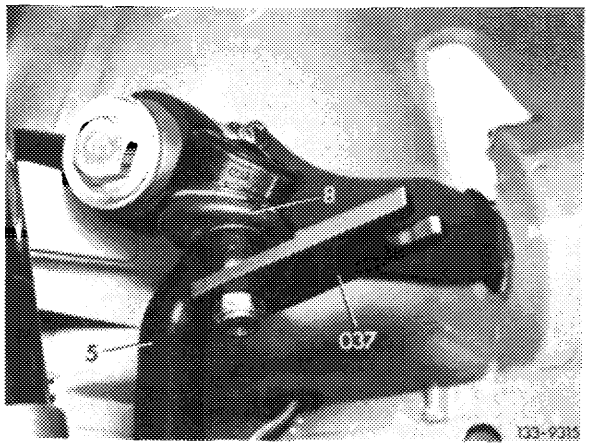
Installation

Note: Paint new control arm prior to installation.

12 Mount control arm to supporting joint.

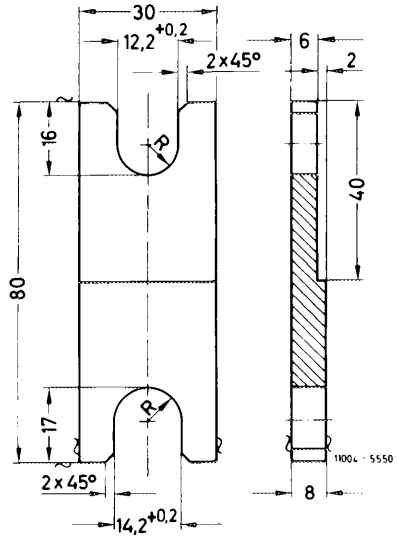
Attention!
Use self-locking hex. nut only.

13 If ball pin on supporting joint is also turning when tightening hex. nut, insert spacing plate and pull cone of ball pin into control arm by tightening hex. nut. Then loosen hex. nut, remove spacing plate and tighten hex. nut to specified torque.

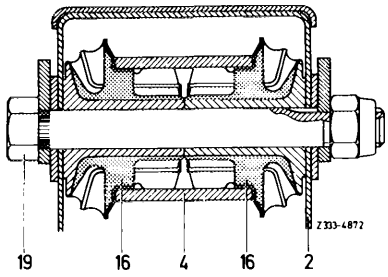


5 Steering knuckle
8 Guide joint
037 Spacing plate

Spacing plate can be self-made.

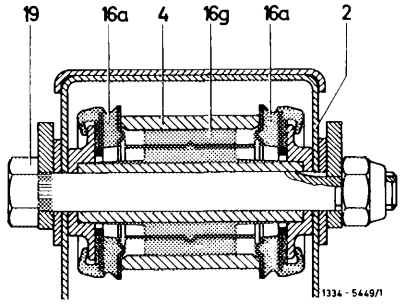


14 Mount front bearing of lower control arm to frame cross member.



Front bearing of lower control arm on frame cross member (1st version)

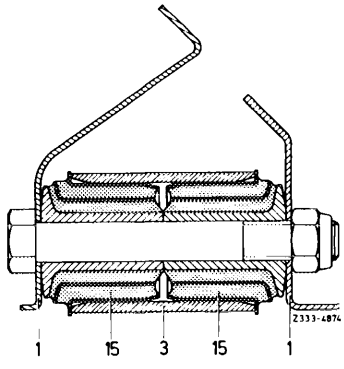
2 Frame cross member
4 Lower control arm
6 Rubber mount
19 Cam bolt



Front bearing of lower control arm on frame cross member (2nd version)

2 Frame cross member
4 Lower control arm
16a Axial slide bearing
16g Radial torsion bearing
19 Cam bolt

15 Attach cross yoke to frame side member.



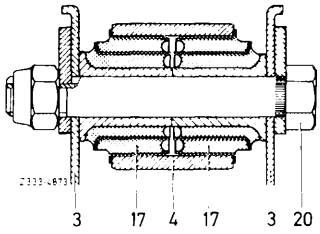
Bearing of cross yoke on frame side member

1 Frame side member
3 Cross yoke
15 Rubber mount

16 Mount rear bearing of lower control arm to cross yoke.

Rear bearing of lower control arm on cross yoke

3 Cross yoke
4 Lower control arm
17 Rubber mount
20 Cam bolt



Attention! Cam bolts of control arm bearing are of different length.
Front cam bolt: Total length 150 mm
Rear cam bolt: Total length 123 mm

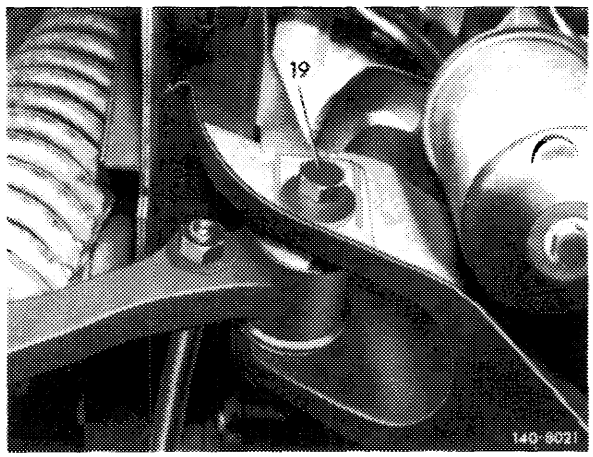
17 Install front spring (32–200).

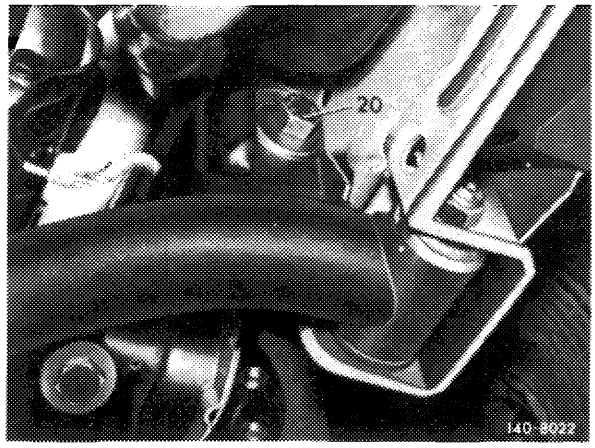
18 Mount front shock absorber (32–100).

19 Mount front wheel, lower vehicle.

20 Place cam bolt of camber and caster adjustment on previously made marks and tighten.

Attention!
If position of cam bolt has not been marked during removal, mount cam bolt into center position for initial adjustment.





21 Mount track rod to drag link (46–540).

22 Check vehicle level at front axle.

23 Check adjustment of front wheels and correct, if required (40–320).

24 Check adjustment of headlights.