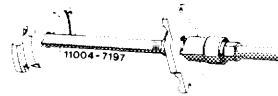


32–200 Removal and installation of front spring

Tightening torques	Nm	(kpm)
Hex. socket screws (1st version) or double hex. screws (2nd version) of lower shock absorber suspension	20	(2)
Hex nuts of upper shock absorber suspension	tighten up to runout of thread	

Special tools

Spring tensioner for front spring



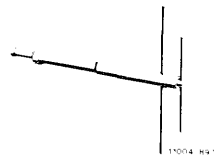
116 589 06 31 00

Socket 24 mm 1/2" square
450 mm long for spring tensioner



116 589 01 09 00

Socket wrench 5 mm for upper shock absorber suspension



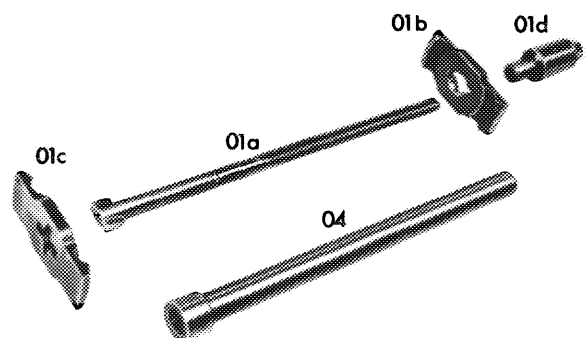
107 589 00 09 00

Note

The front shock absorbers are serving simultaneously as a deflection stop for the front wheels. For this reason, loosen shock absorber suspension only when the vehicle is on its wheels or when the control arm is supported. With the shock absorber released, the upper control arm rests on limit stop at front end. For assembly of upper suspension, either place vehicle on its wheels or lift axle half at lower control arm.

Attention!

When removing gas pressure shock absorbers with separating piston or with piston rod mounted at top, with vehicle jacked up and axle half relieved, make sure that the piston rod is not turning along when loosening upper suspension. Since in this condition the resilience stop in shock absorber rests against operating piston, the attachment of operating piston to piston rod may become loose. The gas pressure would then suddenly extend piston rod and the oil in shock absorber would flow out (risk of an accident).



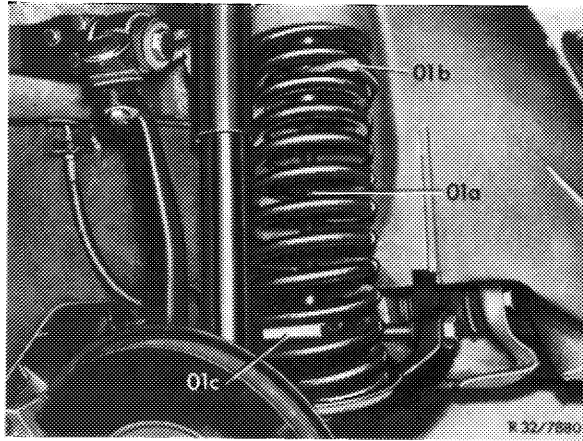
Spring tensioner for front spring

01a Tensioning screw 01d Guide sleeve with nut
01b Upper tensioning plate 04 Socket
01c Lower tensioning plate

R 32/7927

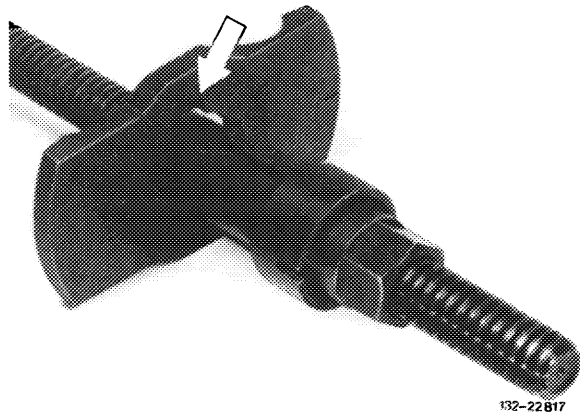
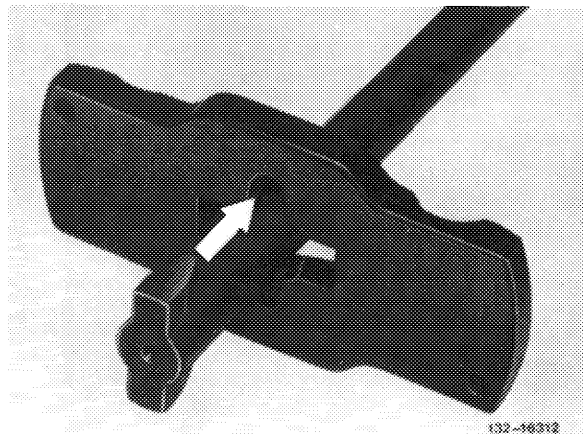
Removal

- 1 Release upper shock absorber suspension (32-100).
- 2 Lift vehicle at the front, remove front wheel.
- 3 Insert clamping plates (01b, 01c) of spring tensioner offset by 90° into front spring in such a manner that 9, but at least 8 coils, are engaged.
- 4 Insert tensioning screws (01a) through dome in wheel house from direction of engine compartment.

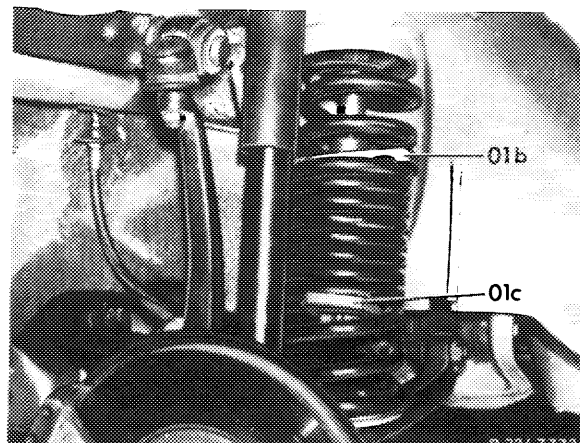


Attention!

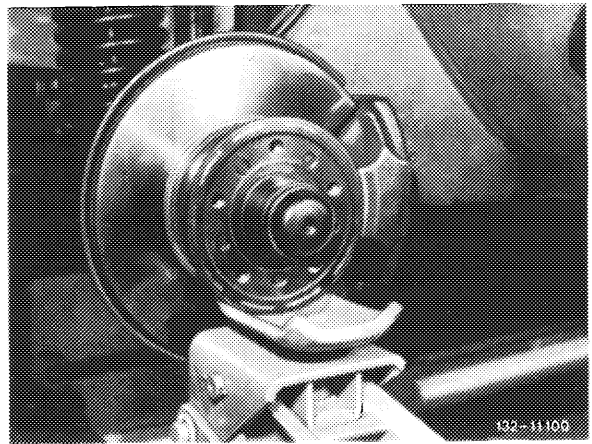
The webs of the tensioning screw and guide sleeve should be correctly located in grooves of upper and lower tensioning plate. Danger!



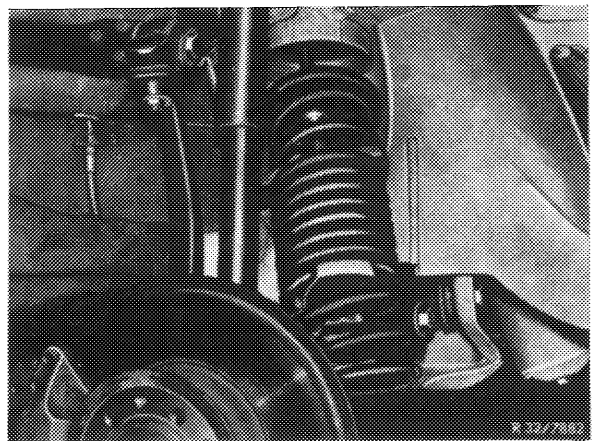
- 5 Tension front spring, while lifting lower control arm by means of a vehicle jack to facilitate tensioning.



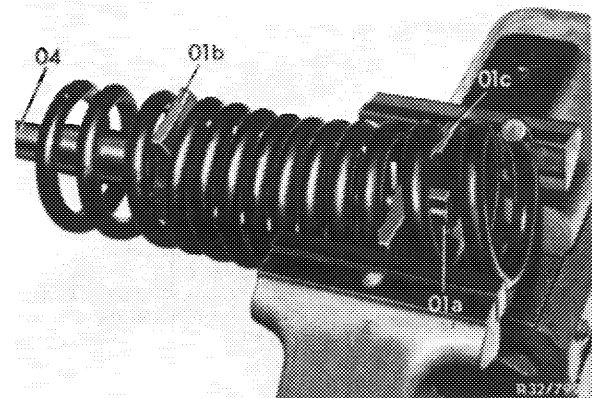
01b Upper tensioning plate
01c Lower tensioning plate



6 Remove front spring with rubber mount.



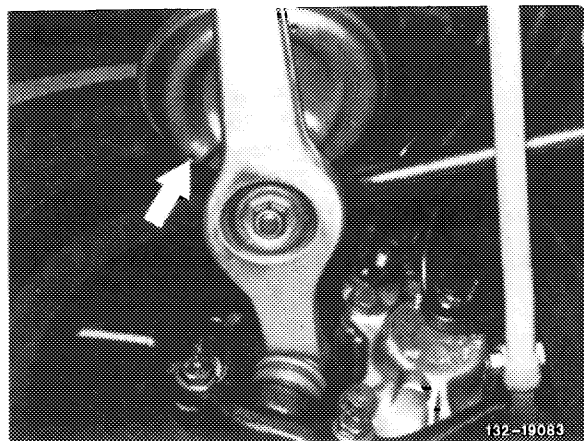
7 Slacken front spring in vise.



01a Tensioning screw 01c Lower tensioning plate
 01b Upper tensioning plate 04 Socket

Installation

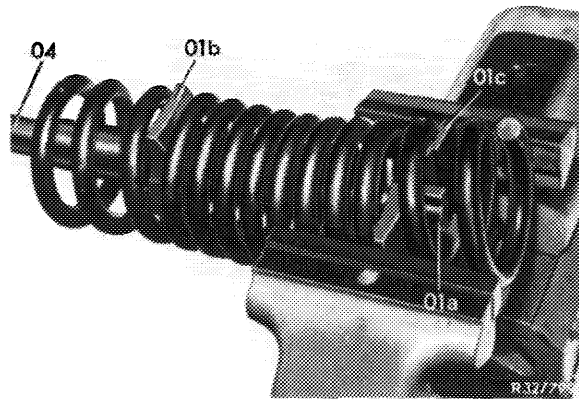
Note: Prior to installing front spring, make sure that the water drain hole (arrow) in spring retainer is unobstructed.



8 Tension front spring at 9, but at least 8 coils.
Apply tensioning plates offset by 90°

Attention!

The webs of the tensioning screw and the guide sleeve should be correctly located in grooves of lower and upper tensioning plate. **Danger!**



9 Place rubber mount on front spring and locate on spring by turning to the right. If required, fasten rubber bearing at two points to spring by means of textile adhesive tape. Introduce front spring in such a manner that runout of front spring coil is seated in impression of spring retainer.

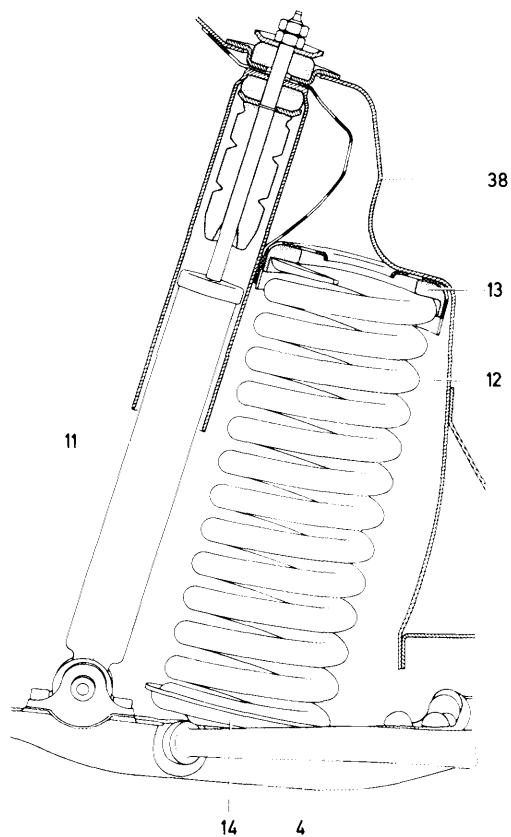
10 Slacken front spring while paying attention to correct seat of rubber mount in frame floor and of coil runout of spring in spring retainer.

11 Mount front wheel, lower vehicle.

12 Mount upper shock absorber suspension (32 100).

13 Check vehicle level at front axle (40–320).

14 Check headlamp adjustment.



- 4 Lower control arm
- 11 Front shock absorber
- 12 Front spring
- 13 Rubber mount for front spring
- 14 Retainer for front spring
- 38 Front end