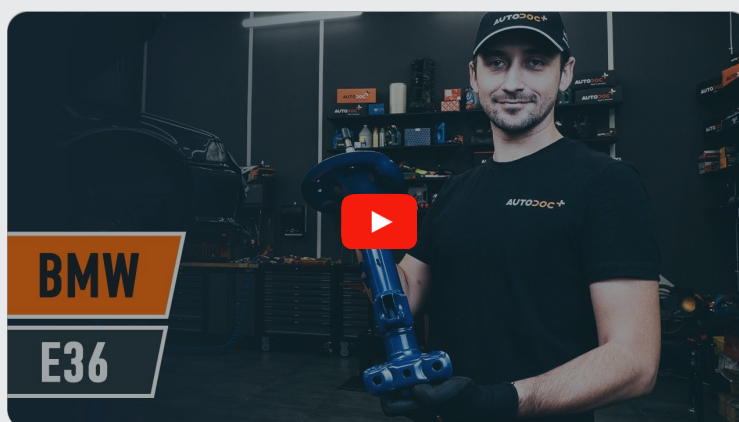


## VIDEO TUTORIAL



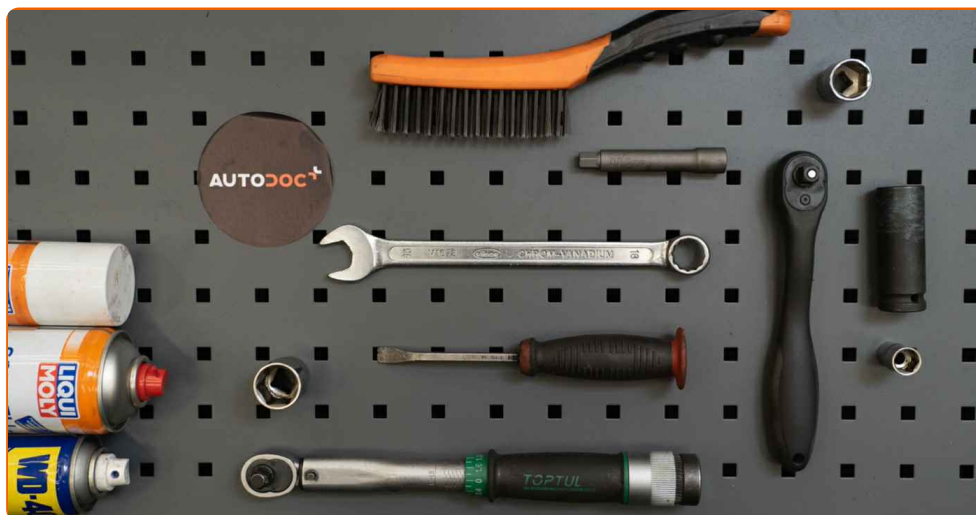
### **i Important!**

This replacement procedure can be used for:

BMW 3 Saloon (E36) 320i 2.0, BMW 3 Coupe (E36) 320i 2.0, BMW 3 Saloon (E36) 325i 2.5, BMW 3 Coupe (E36) 325i 2.5, BMW 3 Saloon (E36) 325td 2.5, BMW 3 Saloon (E36) 325tds 2.5, BMW 3 Convertible (E36) 318i 1.8, BMW 3 Touring (E36) 320i 2.0, BMW 3 Touring (E36) 328i 2.8, BMW 3 Touring (E36) 318tds 1.7, BMW 3 Touring (E36) 325tds 2.5, BMW 3 Saloon (E36) 328i 2.8, BMW 3 Coupe (E36) 328i 2.8, BMW 3 Coupe (E36) 323i 2.5, BMW 3 Touring (E36) 323i 2.5, (+ 2)

The steps may slightly vary depending on the car design.

## REPLACEMENT: SUSPENSION STRUT – BMW E36. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 9
- Drive socket # 13
- Drive socket # 18
- Drive socket # 19
- Drive socket # 22
- Wheel impact socket #17
- Ratchet wrench
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

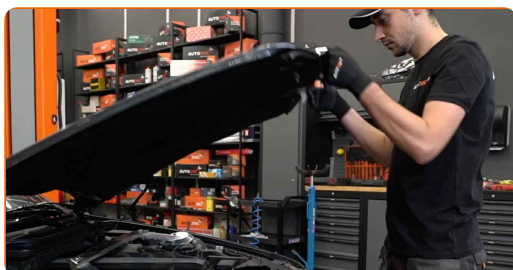
**BUY TOOLS**

### Replacement: suspension strut – BMW E36. Tip from AUTODOC experts:

- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- All work should be done with the engine stopped.

## REPLACEMENT: SUSPENSION STRUT – BMW E36. USE THE FOLLOWING PROCEDURE:

**1** Open the bonnet.



**2** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



**3** Secure the wheels with chocks.

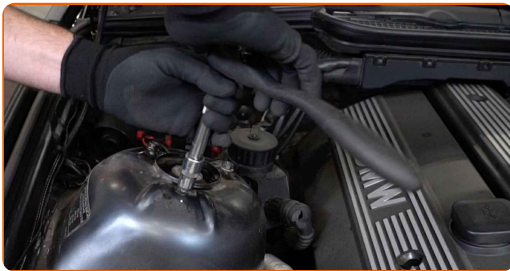
4

Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



5

Loosen the upper fasteners of the suspension strut. Use a drive socket #13. Use a ratchet wrench.



6

Loosen the wheel mounting bolts. Use wheel impact socket #17.



7

Raise the front of the car and secure on supports.



8

Unscrew the wheel bolts.



### AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
BMW E36

9

Remove the wheel.

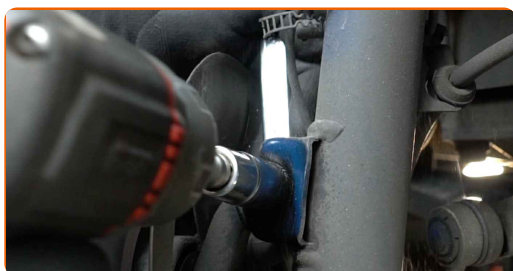


10

Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



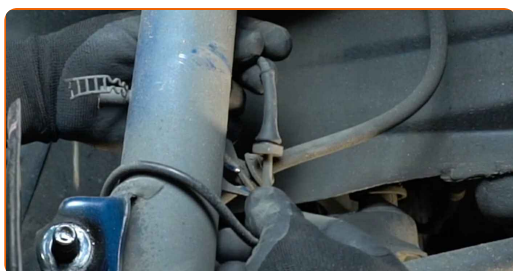
- 11** Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



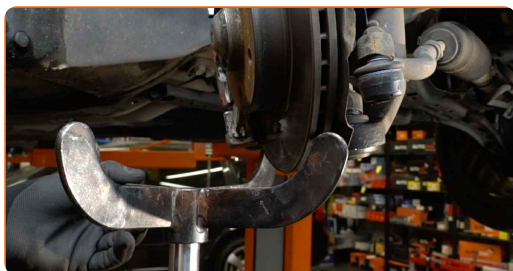
- 12** Detach the brake hose from the shock strut.



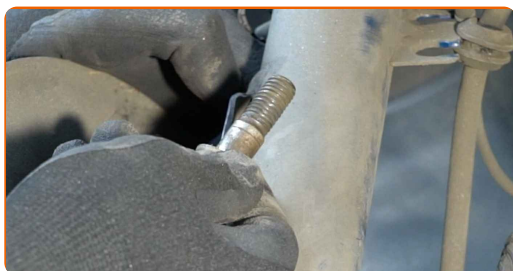
- 13** Disconnect the ABS sensor wiring.



- 14** Prop up the steering knuckle. Use a hydraulic transmission jack.



- 15** Remove the fastening bolts.





- 16 Disconnect the steering knuckle from the shock absorber strut.



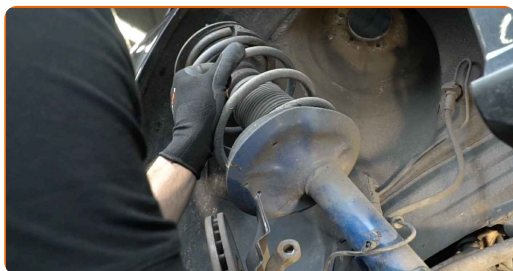
- 17 Unscrew the upper fasteners of the shock strut.



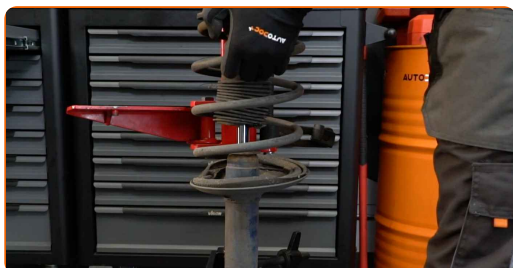
### AUTODOC recommends:

- BMW E36 – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

- 18 Remove the suspension strut.



- 19 Set the shock absorber strut on the spring compressor tool.

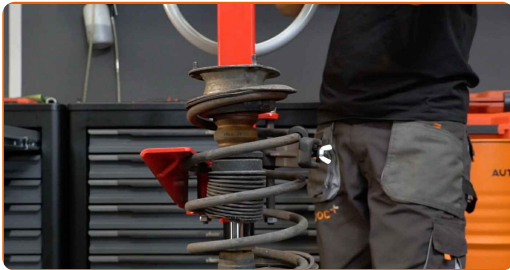


### Replacement: suspension strut – BMW E36. Professionals recommend:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

20

Compress the spring.



21

Remove the shock strut mount cap. Use a crowbar.



22

Treat the shock strut rod. Use a wire brush. Use WD-40 spray.





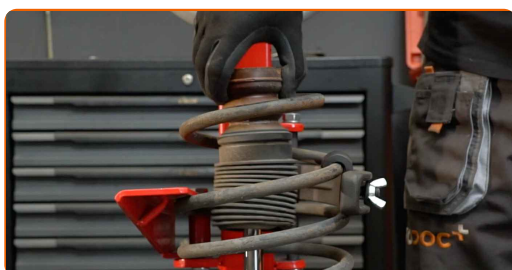
23

Remove the strut piston rod nut. Use a drive socket #9. Use a drive socket #22. Use a ratchet wrench.



24

Remove the shock absorber mount, boot and bump stop.

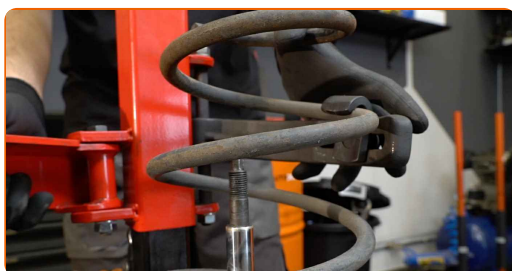


Replacement: suspension strut – BMW E36. AUTODOC recommends:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.

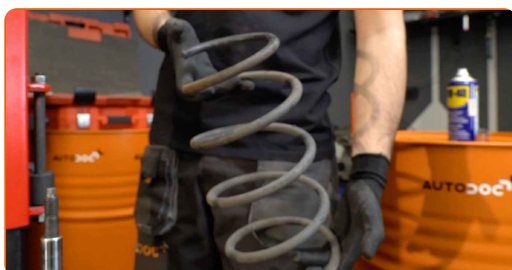
25

Release the coil spring.



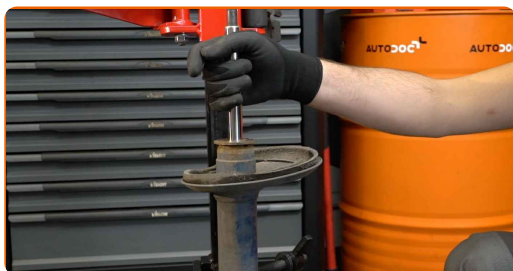
26

Remove the spring.



27

Remove the old shock absorber from the hydraulic coil spring compressor.



Replacement: suspension strut – BMW E36. Tip:

- Before installing a new shock absorber you should pump it manually 3-5 times.

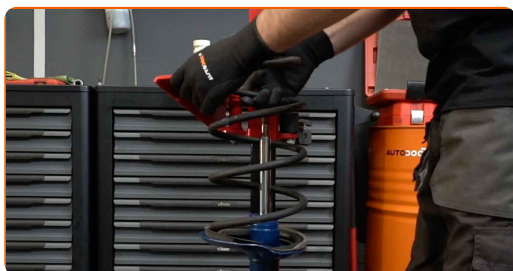
28

Install the new shock absorber on the hydraulic coil spring compressor.



29

Install the spring on the shock absorber.



30

Compress the spring.

