

VIDEO TUTORIAL



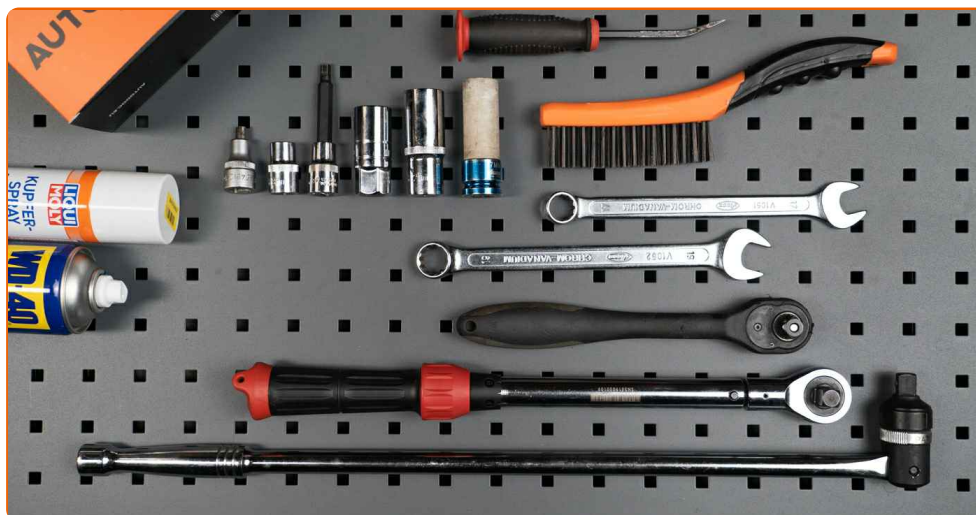
i Important!

This replacement procedure can be used for:

BMW 3 Saloon (E46) 328i 2.8, BMW 3 Saloon (E46) 320d 2.0, BMW 3 Saloon (E46) 323i 2.5, BMW 3 Saloon (E46) 320i 2.0, BMW 3 Coupe (E46) 323Ci 2.5, BMW 3 Coupe (E46) 328Ci 2.8, BMW 3 Touring (E46) 320i 2.0, BMW 3 Coupe (E46) 320Ci 2.0, BMW 3 Saloon (E46) 330d 2.9, BMW 3 Touring (E46) 330d 2.9, BMW 3 Convertible (E46) 323Ci 2.5, BMW 3 Saloon (E46) 330i 3.0, BMW 3 Convertible (E46) 330Ci 3.0, BMW 3 Coupe (E46) 320Ci 2.2, BMW 3 Coupe (E46) 325Ci 2.5, (+ 15)

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – BMW E46 CONVERTIBLE. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #17
- Combination spanner #19
- Drive socket # 13
- Drive socket # 21
- Drive socket # 22
- HEX bit No.H7
- Shock absorber socket
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: coil springs – BMW E46 convertible. Tip from AUTODOC:

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

REPLACEMENT: COIL SPRINGS – BMW E46 CONVERTIBLE. USE THE FOLLOWING PROCEDURE:

1

Open the bonnet.



2

Secure the wheels with chocks.



3

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



4

Raise the front of the car and secure on supports.



5

Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. BMW E46 convertible

6

Remove the wheel.



7

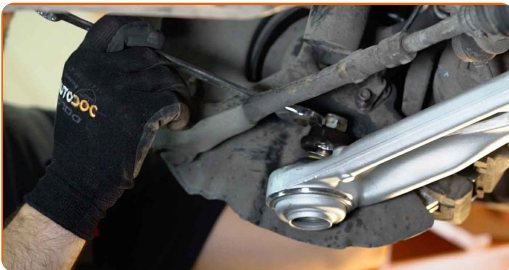
Clean the fasteners connecting the stabiliser link to the shock strut, and those connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



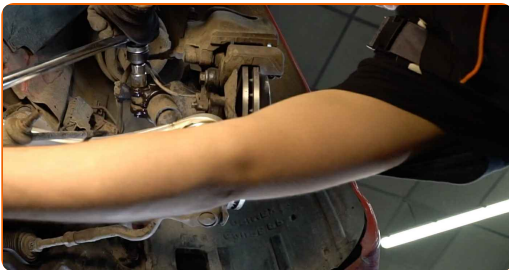
- 8 Unscrew the nut and remove the stabilizer rod from the shock strut. Use HEX No.H7. Use a combination spanner #17. Use a ratchet wrench.



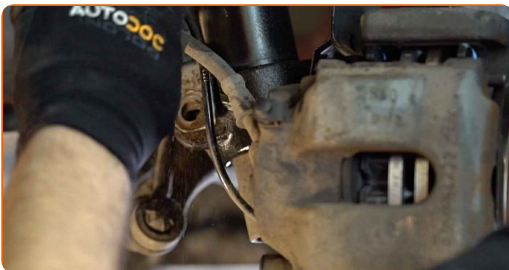
- 9 Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #19.



- 10 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #21. Use a tap wrench.



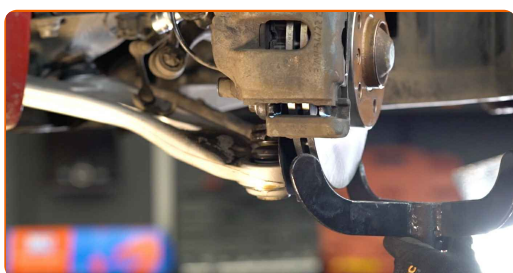
- 11 Disconnect the wiring and the brake hose from the bracket on the shock strut.



- 12** Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber.



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



- 14** Disconnect the lower arm from the steering knuckle.



- 15** Lower the hydraulic transmission jack by 10-15 cm.



AUTODOC recommends:

- Replacement: coil springs – BMW E46 convertible. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

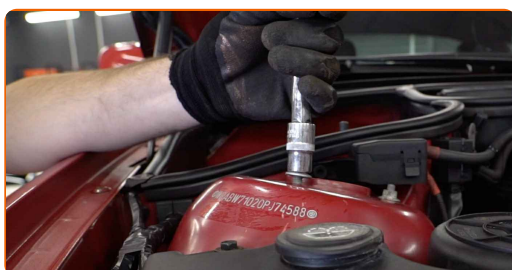
16

Disconnect the steering knuckle from the shock absorber strut.



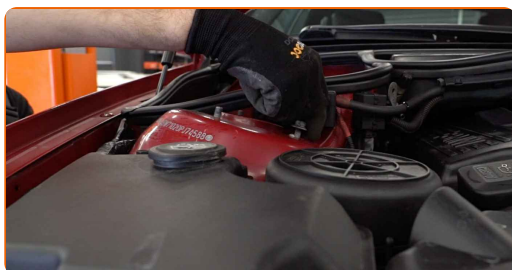
17

Unscrew the shock absorber mount fastening. Use a drive socket #13. Use a ratchet wrench.



18

Unscrew the upper fasteners of the shock strut.

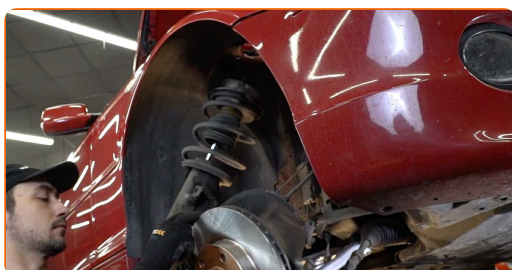


AUTODOC recommends:

- BMW E46 convertible – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

19

Remove the suspension strut.



20

Set the shock absorber strut on the spring compressor tool.



Replacement: coil springs – BMW E46 convertible. 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.

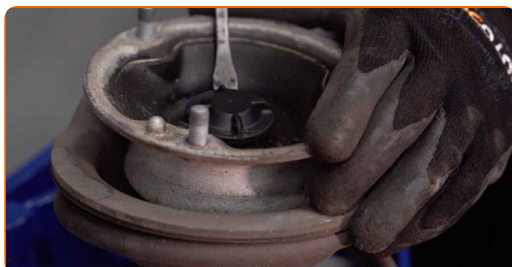
21

Compress the spring.



22

Remove the shock strut mount cap. Use a crowbar.



23

Remove the strut piston rod nut. Use a drive socket #22. Use HEX No.H7.



24

Remove the top strut mount.



25

Release the coil spring.



26

Remove the spring.



27

Remove the shock absorber dust cap and the bump stop.



AUTODOC recommends:

- Replacement: coil springs – BMW E46 convertible. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

28

Install the spring on the shock absorber.



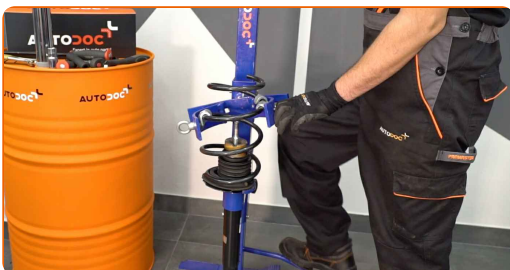
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Install the boot and a bump stop onto the shock absorber.



30

Compress the spring.



31

Install the upper strut mount and the strut mount bearing. Use a crowbar.

