

VIDEO TUTORIAL

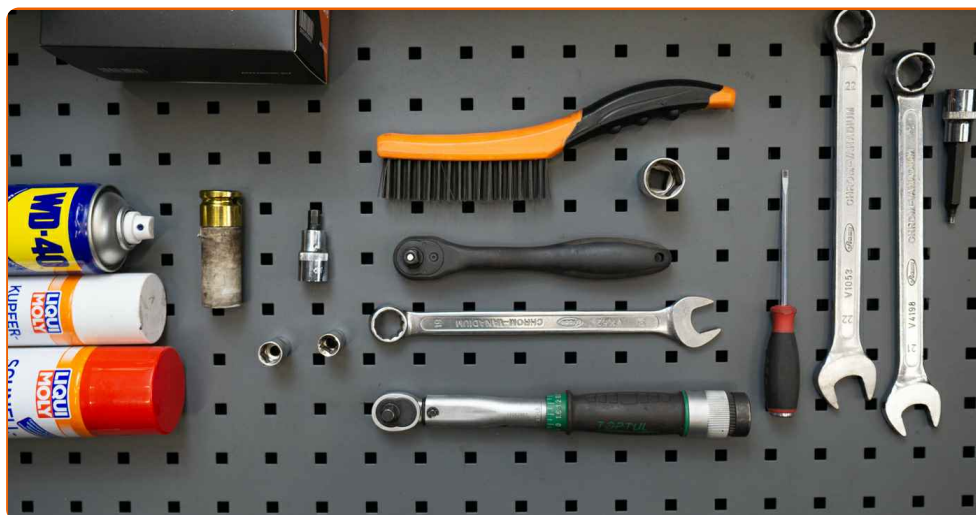


Important!

This replacement procedure can be used for:
BMW X5 (E53) 3.0 d, BMW X5 (E53) 4.4 i

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – BMW X5 E53. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #19
- Combination spanner #22
- Drive socket # 10
- Drive socket # 13
- Drive socket # 22
- HEX bit no.H5.
- HEX bit no.H7.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

BUY TOOLS

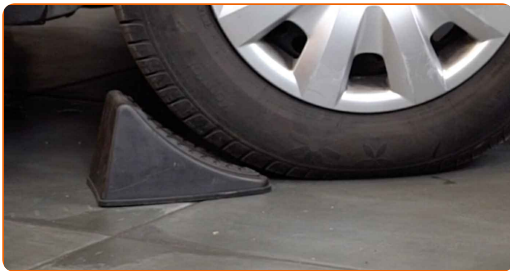
Replacement: coil springs – BMW X5 E53. AUTODOC recommends:

- 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 X5 E53. RECOMMENDED SEQUENCE OF STEPS:

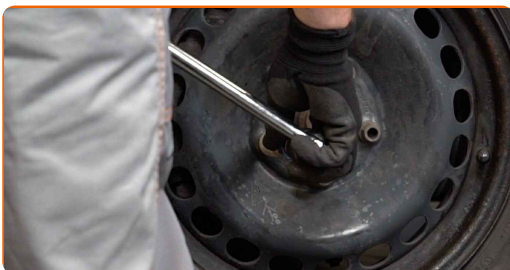
1

Secure the wheels with chocks.



2

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



3

Raise the front of the car and secure on supports.

4

Unscrew the wheel bolts.



Replacement: coil springs – BMW X5 E53. Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

5

Remove the wheel.

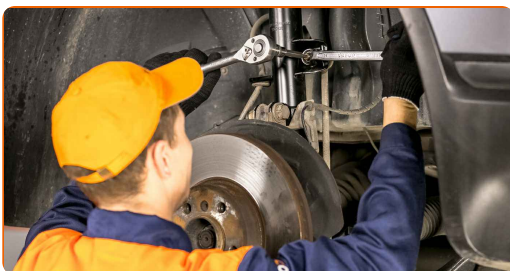


6

Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.

7

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #19. Use HEX No.H5. Use a ratchet wrench.

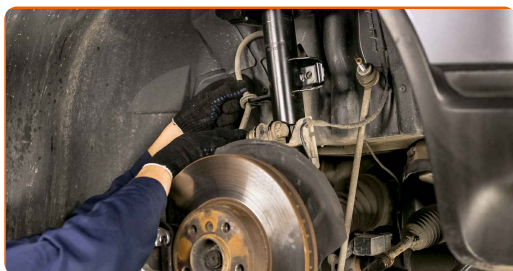


8

Remove the stabilizer rod.

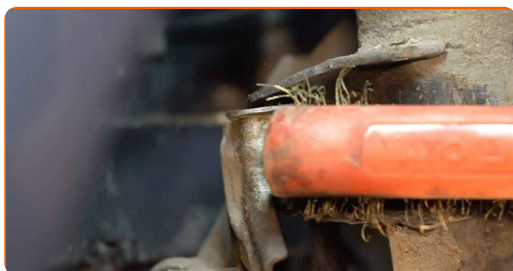
9

Detach the brake hose from the shock strut. Use a flat screwdriver.



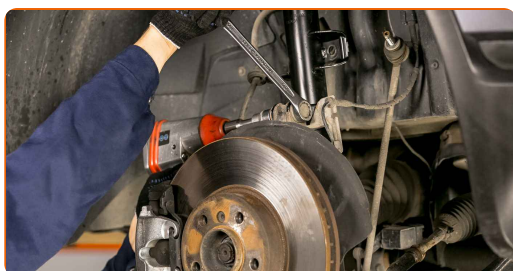
10

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



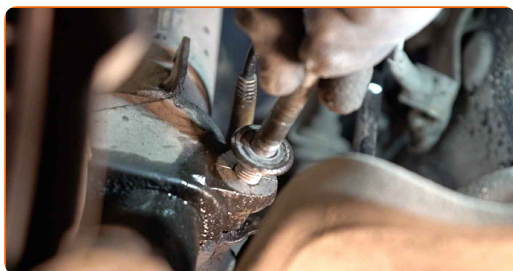
11

Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #22. Use a drive socket #22. Use a ratchet wrench.



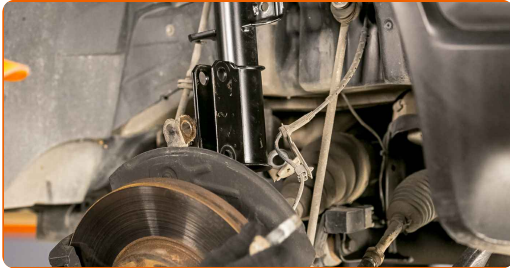
12

Remove the fastening bolt.



13 Disconnect the ABS sensor wiring.

14 Remove the fastening bolt.



15 Disconnect the steering knuckle from the shock absorber strut.



Replacement: coil springs – BMW X5 E53. AUTODOC experts recommend:

- Make sure that the steering knuckle is supported.

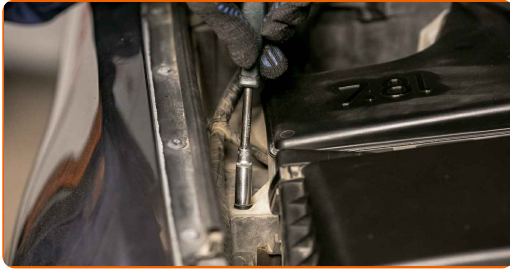
16 Lower the car.

17 Open the bonnet.



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

- 19 Unscrew the bolts and remove the windshield washer tank. Use a drive socket #10. Use a ratchet wrench.



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



- 21 Unscrew the top fastening of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.

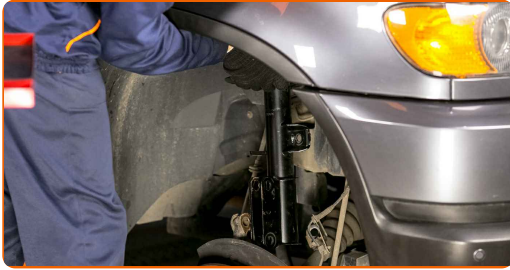


Replacement: coil springs – BMW X5 E53. Tip from AUTODOC:

- To avoid injuries, hold the shock strut when undoing the fastening bolts.

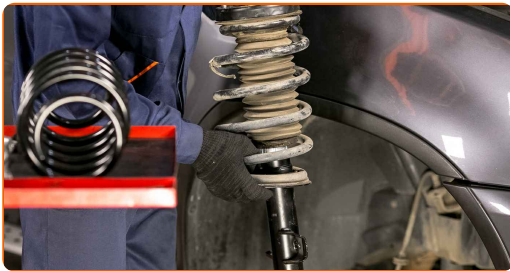
22

Remove the suspension strut.



23

Set the shock absorber strut on the spring compressor tool.

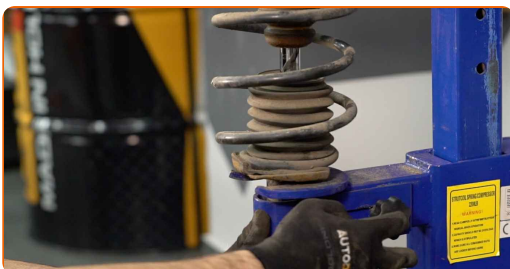


Replacement: coil springs – BMW X5 E53. Professionals recommend:

- 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.

24

Compress the spring.



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

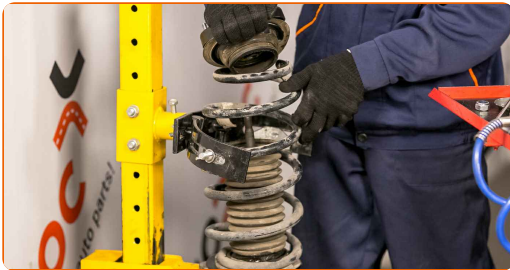


- 26 Remove the strut piston rod nut. Use a combination spanner #22. Use HEX No.H7.

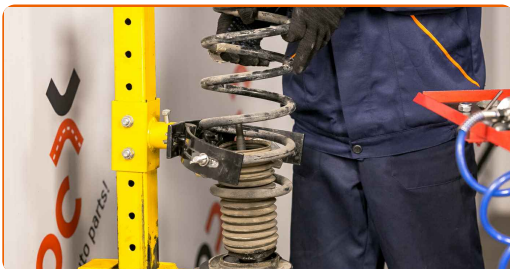


- 27 Release the coil spring.

- 28 Remove the top strut mount.

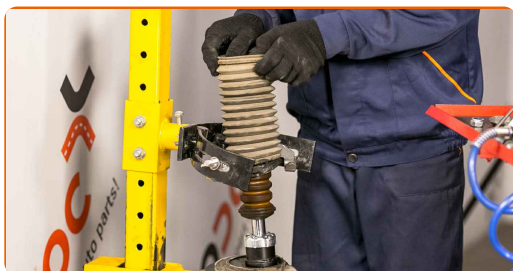


- 29 Remove the spring.



30

Remove the shock absorber dust cap and the bump stop.

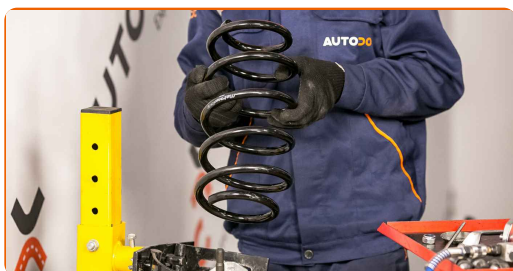


AUTODOC recommends:

- Replacement: coil springs – BMW X5 E53. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

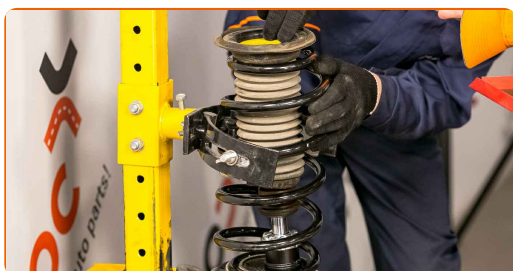
31

Install the spring on the shock absorber.



32

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



33

Compress the spring.