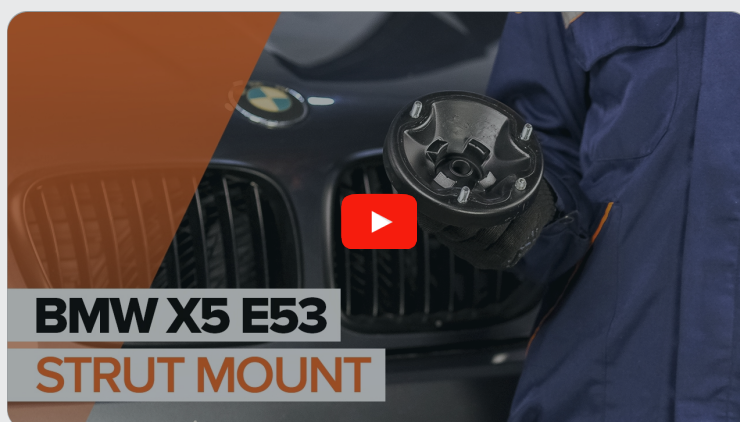


VIDEO TUTORIAL



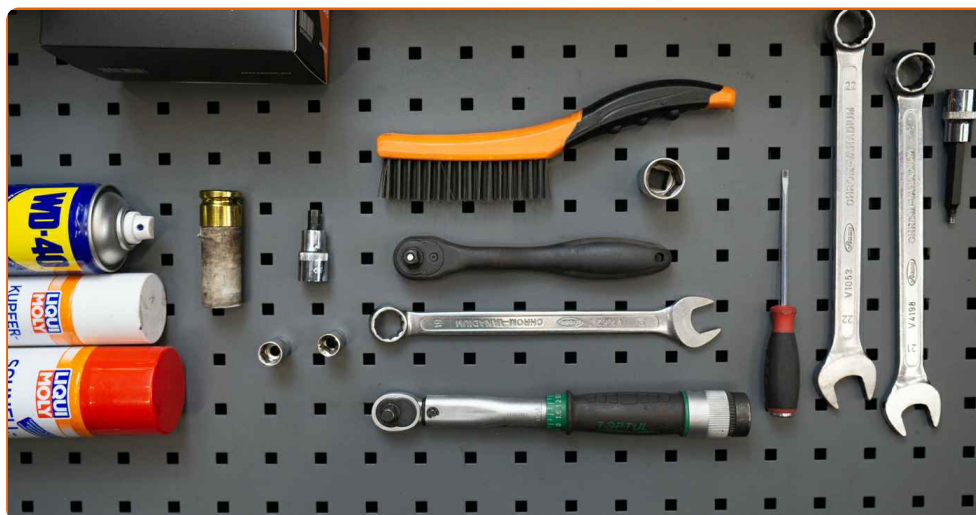
Important!

This replacement procedure can be used for:

BMW X5 (E53) 3.0 d, BMW X5 (E53) 4.6 is, BMW X5 (E53) 3.0 i, BMW X5 (E53) 4.4 i

The steps may slightly vary depending on the car design.

REPLACEMENT: STRUT MOUNT – BMW X5 E53. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #19
- Combination spanner #21
- 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: strut mount – BMW X5 E53. Tip:

- The replacement procedure is identical for the mounts of the left and right shock struts of the front suspension.
- All mounts of the front shock struts should be replaced simultaneously.
- Be sure to replace all self-locking nuts and bolts during installation.
- All work should be done with the engine stopped.

REPLACEMENT: STRUT MOUNT – BMW X5 E53. USE THE FOLLOWING PROCEDURE:

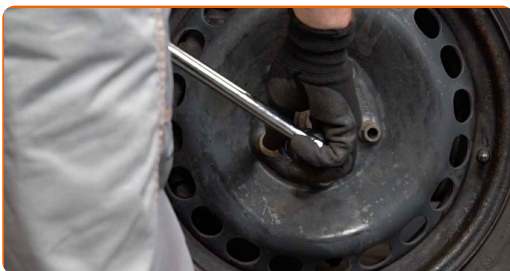
1

Secure the wheels with chocks.



2

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

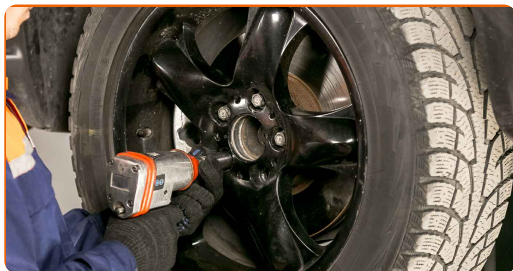


3

Raise the front of the car and secure on supports.

4

Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. BMW X5 E53

5

Remove the wheel.

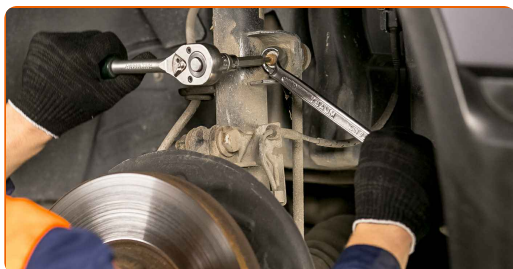


6

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.

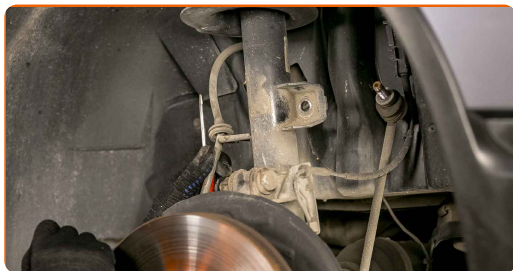


8

Remove the stabilizer rod.

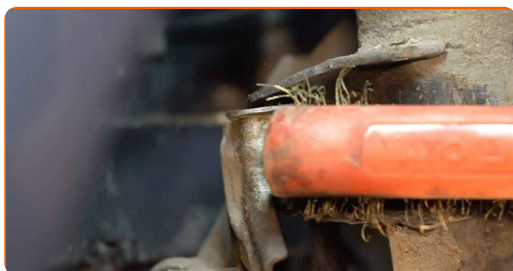
9

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



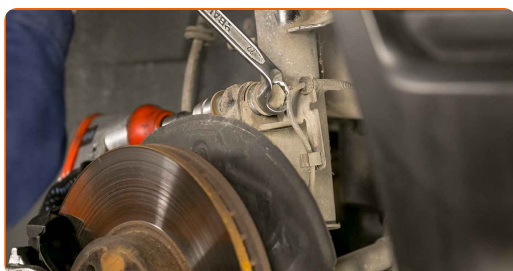
10

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



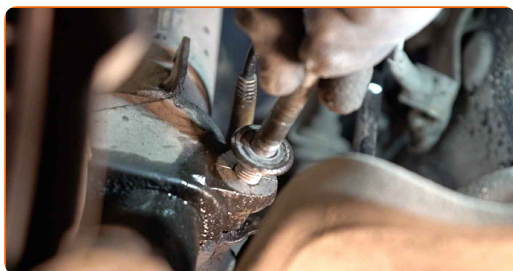
11

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.

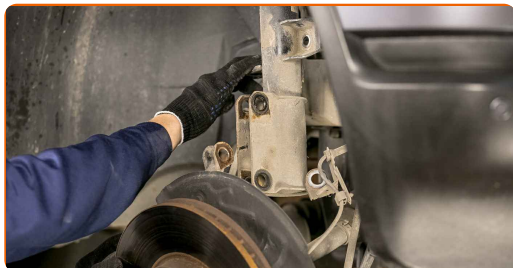


13

Disconnect the ABS sensor wiring.

14 Remove the fastening bolt.

15 Disconnect the steering knuckle from the shock absorber strut.

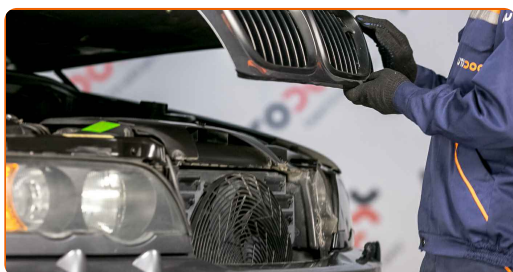


Replacement: strut mount – BMW X5 E53. AUTODOC recommends:

- Make sure that the steering knuckle is supported.

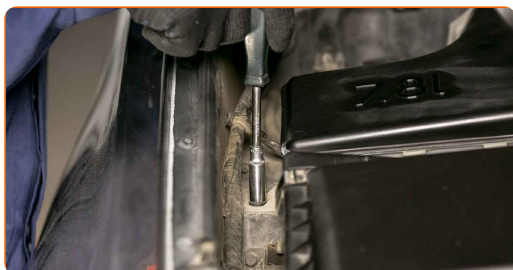
16 Lower the car.

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.



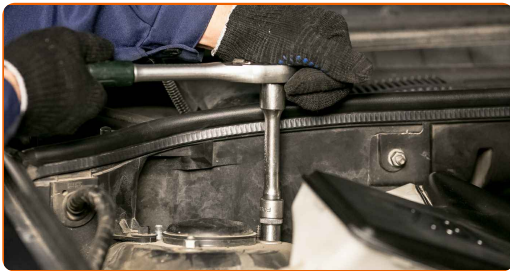
20

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.

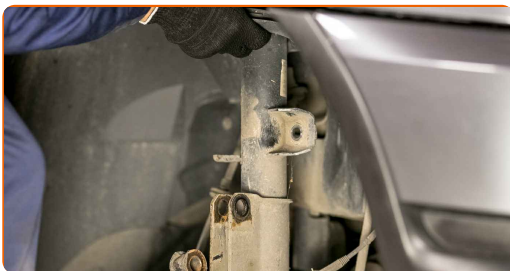


Replacement: strut mount – BMW X5 E53. AUTODOC experts recommend:

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

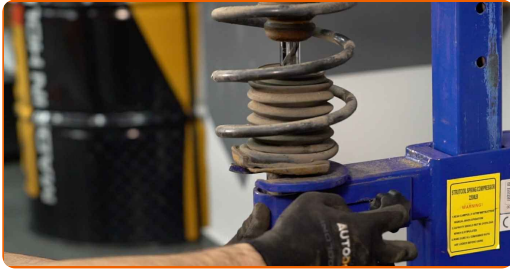
22

Remove the suspension strut.



23

Set the shock absorber strut on the spring compressor tool.



Replacement: strut mount – 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 #21. Use HEX No.H7.



27

Release the coil spring.

28

Remove the top strut mount. Use a flat screwdriver.



Replacement: strut mount – BMW X5 E53. Tip from AUTODOC experts:

- Examine the shock absorber dust cap and the bump stop. Replace them if necessary.

29

Clean the mounting seat of the shock strut mount. Use a wire brush. Use WD-40 spray.

30

Install a new top shock strut mount.



- 31** Tighten the shock strut piston rod nut. Use a combination spanner #21. Use HEX No.H7. Use a torque wrench. Tighten it to 60 Nm torque.

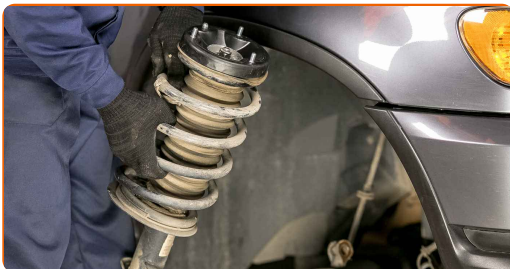


Replacement: strut mount – BMW X5 E53. Tip from AUTODOC:

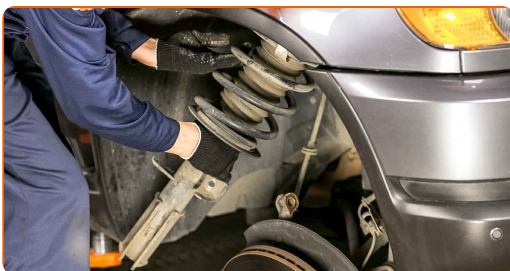
- Check to make sure the spring is positioned correctly. Avoid its misalignment.

- 32** Decompress the spring.

- 33** Remove the assembled shock strut.



- 34** Install the shock strut into the wheel arch.



- 35** Screw the top fastening of the shock strut mount.