

VIDEO TUTORIAL



i Important!

This replacement procedure can be used for:

BMW 5 Saloon (E39) 520i 2.0, BMW 5 Saloon (E39) 525tds 2.5, BMW 5 Saloon (E39) 523i 2.5, BMW 5 Saloon (E39) 528i 2.8, BMW 5 Touring (E39) 520i 2.0, BMW 5 Touring (E39) 523i 2.5, BMW 5 Saloon (E39) 525td 2.5, BMW 3 Saloon (E46) 318i 1.9, BMW 3 Saloon (E46) 328i 2.8, BMW 3 Saloon (E46) 320d 2.0, BMW 5 Touring (E39) 528i 2.8, BMW 3 Saloon (E46) 323i 2.5, BMW 3 Saloon (E46) 320i 2.0, BMW 5 Saloon (E39) 530d 3.0, BMW 5 Touring (E39) 530d 3.0, (+ 72)

The steps may slightly vary depending on the car design.

REPLACEMENT: STRUT MOUNT – BMW E39. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #10
- Combination spanner #13
- Combination spanner #18
- Combination spanner #19
- Drive socket # 10
- Drive socket # 13
- Drive socket # 16
- Drive socket # 22
- HEX bit no.H6.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Flat chisel
- Hammer
- Ball joint puller
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: strut mount – BMW E39. AUTODOC recommends:

- 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.
- Please note: all work on the car – BMW E39 – should be done with the engine switched off.

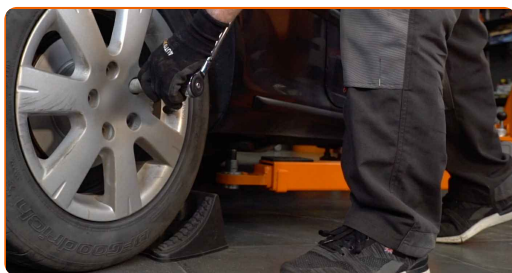
CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

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: strut mount – BMW E39. Tip:

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

5

Remove the wheel.

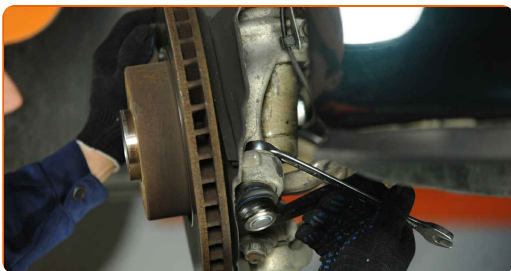


6

Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

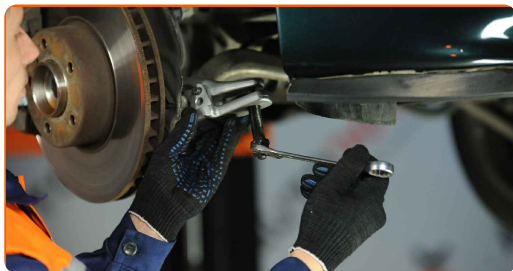
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Unscrew the end fastening nut to the steering knuckle. Use a combination spanner #19.



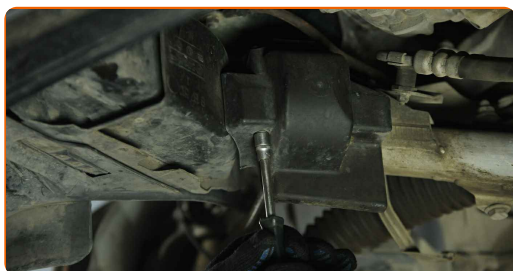
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Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



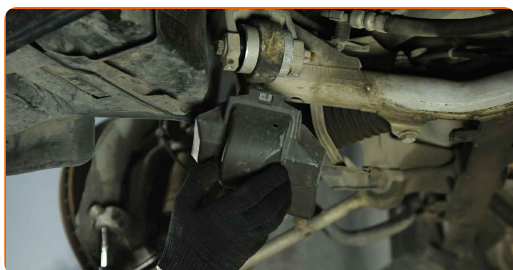
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Unscrew the fasteners of the control arm plastic cover. Use a drive socket #10. Use a ratchet wrench.



10

Remove the control arm plastic cover.

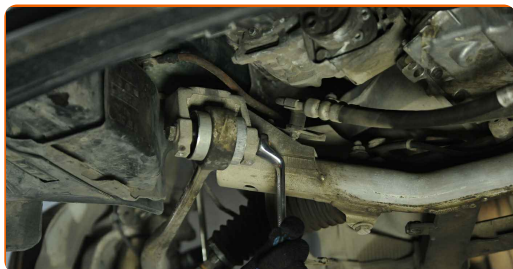


11

Clean the fasteners connecting the control arm to the subframe. Use a wire brush. Use WD-40 spray.

12

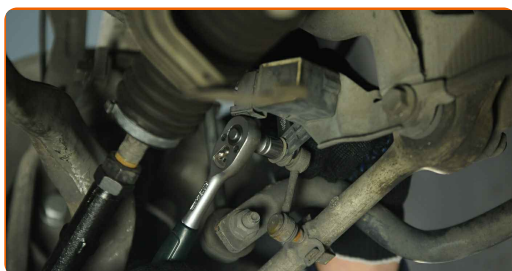
Loosen the front fastener of the control arm. Use a combination spanner #18 (2 pieces).



13

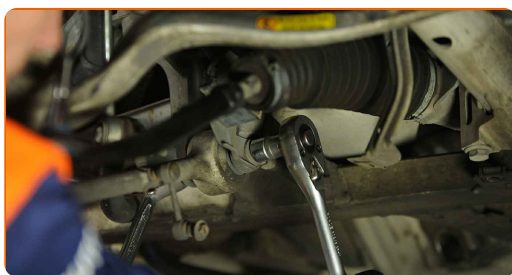
Clean the fasteners of the headlight levelling sensor. Use a wire brush. Use WD-40 spray.

- 14 Unscrew the fasteners of the headlight levelling sensor. Use a combination spanner #10. Use a drive socket #10. Use a ratchet wrench.



- 15 Disconnect the headlight levelling sensor.

- 16 Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18. Use a drive socket #16. Use a ratchet wrench.



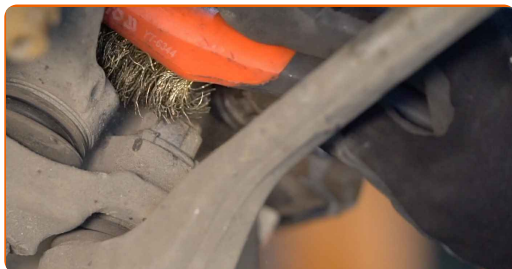
- 17 Remove the rear fastener of the control arm.

- 18 Unscrew the fastener of the stabiliser link bracket. Use a drive socket #16. Use a ratchet wrench.

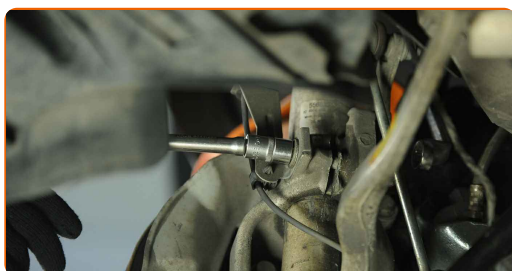


- 19 Remove the fastening bolt.

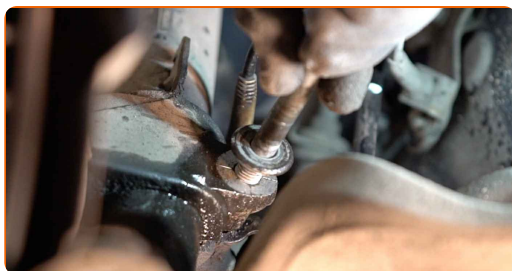
- 20 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 21 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #16. Use a ratchet wrench.



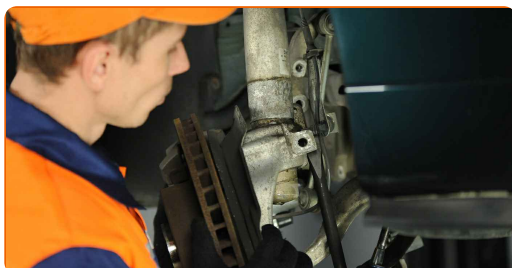
- 22 Remove the fastening bolt.



- 23 Remove the bracket from the shock absorber strut.

- 24 Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.

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



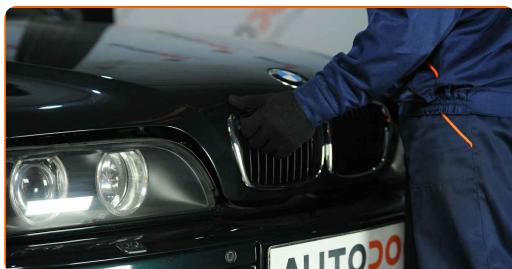
Replacement: strut mount – BMW E39. AUTODOC experts recommend:

- Make sure that the steering knuckle is supported.

26 Install the rear fastener of the control arm.

27 Lower the car.

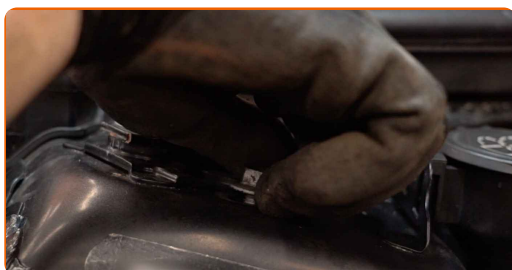
28 Open the bonnet.



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



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



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



AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts. BMW E39

- 32 Remove the suspension strut.

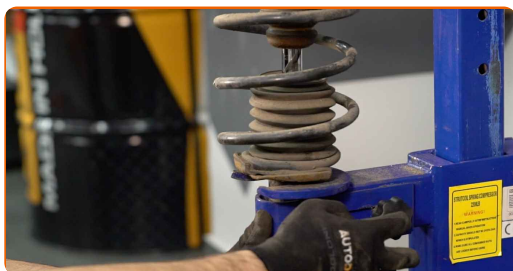


- 33 Set the shock absorber strut on the spring compressor tool.

Replacement: strut mount – BMW E39. Tip from AUTODOC experts:

- 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.

34 Compress the spring.



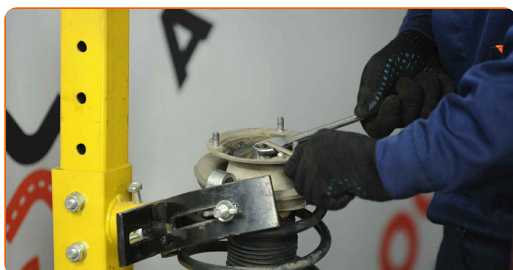
35 Remove the shock strut mount cap. Use a flat screwdriver.



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



37 Remove the strut piston rod nut. Use a drive socket #22. Use HEX No.H6. Use a ratchet wrench.



38 Remove the top strut mount.

