

VIDEO TUTORIAL



ⓘ Important!

This replacement procedure can be used for:

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 Touring (E36) 323i 2.5, BMW 3 Touring (E36) 318i 1.8, BMW 3 Saloon (E46) 318i 1.9, 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 Saloon (E46) 316i 1.9, BMW 3 Touring (E46) 320i 2.0, (+ 43)

The steps may slightly vary depending on the car design.

REPLACEMENT: SHOCK ABSORBERS – BMW E46 TOURING. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #16
- Drive socket # 10
- Drive socket # 13
- Drive socket # 18
- Torx bit T25
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Adjustable wrench
- Tap wrench
- Ear clamp pliers
- Phillips screwdriver
- Crow bar
- Vice
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

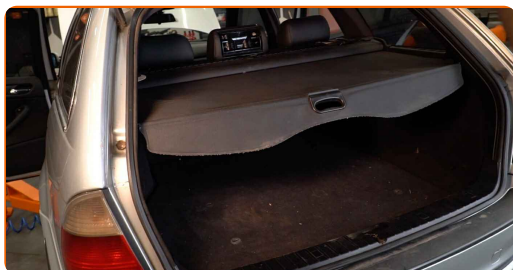
Replacement: shock absorbers – BMW E46 touring. AUTODOC experts recommend:

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

REPLACEMENT: SHOCK ABSORBERS – BMW E46 TOURING. TAKE THE FOLLOWING STEPS:

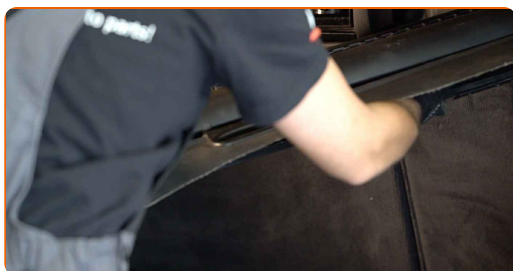
1

Open the boot lid.



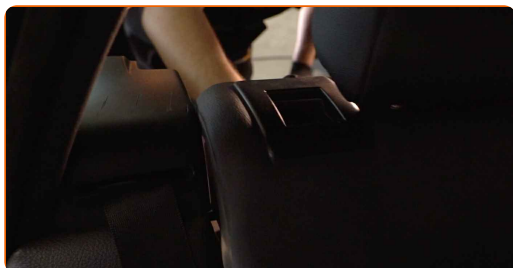
2

Move the folding shelf and detach it from the retainers. By doing this, you will get access to the side trim plastic panels.



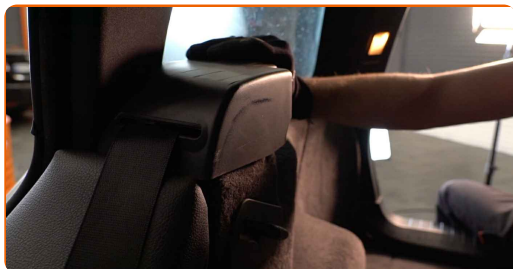
3

Fold down the backrests of the rear seats.



4

Remove the seat belt trim cover. Use a crowbar.



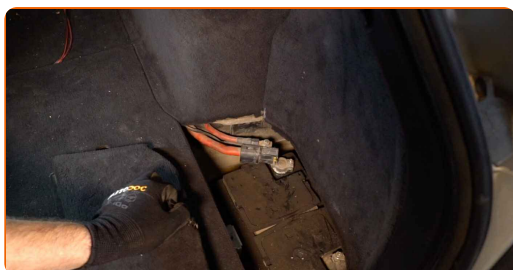
5

Remove the plastic clip of the boot front side lining. Use a crowbar.



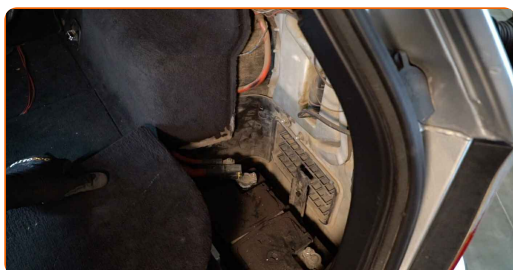
6

Remove the battery cover.



7

Detach the boot rear side lining.



8

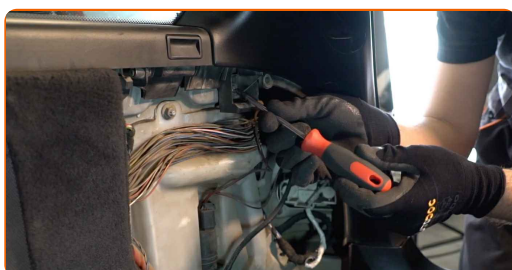
Unscrew the fasteners of the side plastic trim panel. Use Torx T25.



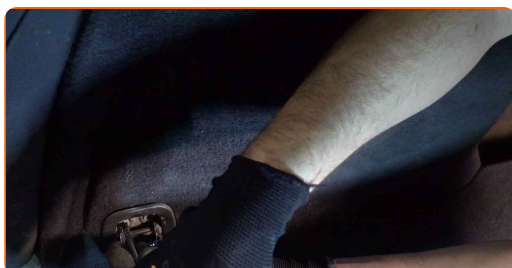
9.1 Unscrew the fasteners of the boot vent panel.



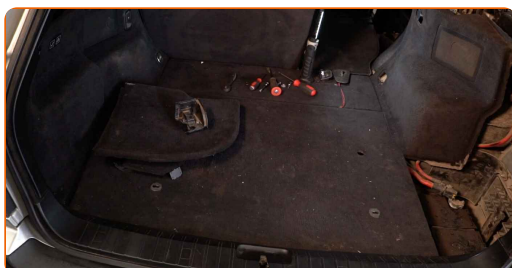
9.2 Use a drive socket #10. Use a Phillips screwdriver.



10 Unscrew the fasteners of the boot front side lining. Use a Phillips screwdriver.



11 Detach the boot front side lining from the upper fasteners. Use a crowbar.

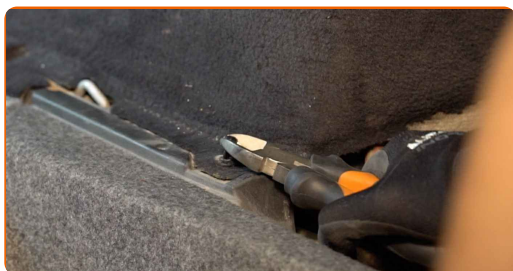


AUTODOC recommends:

- Replacement: shock absorbers – BMW E46 touring. To avoid damaging the part during installation, do not use excessive force.

12

Remove the lower clip of the boot front side lining. Use ear clamp pliers.



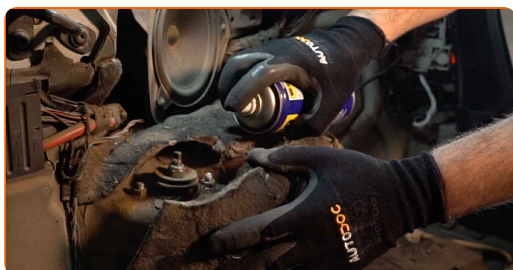
13

Remove the boot front side lining. Use a crowbar.



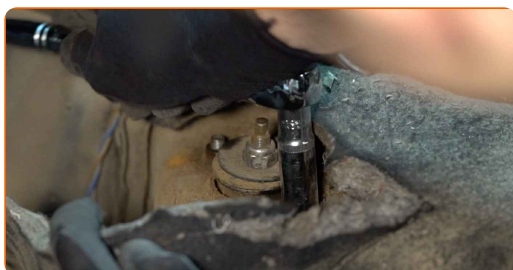
14

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



15

Loosen the upper fastener of the shock absorber. Use a drive socket #13. Use a ratchet wrench.



16

Secure the wheels with chocks.



17

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



18

Raise the rear of the car and secure on supports.



19

Unscrew the wheel bolts.

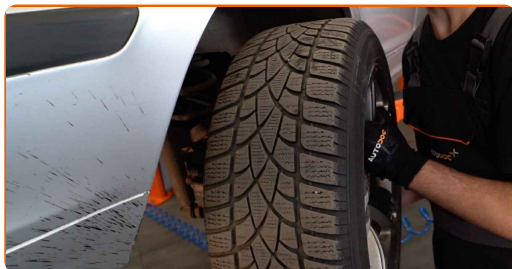


Replacement: shock absorbers – BMW E46 touring. AUTODOC recommends:

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

20

Remove the wheel.



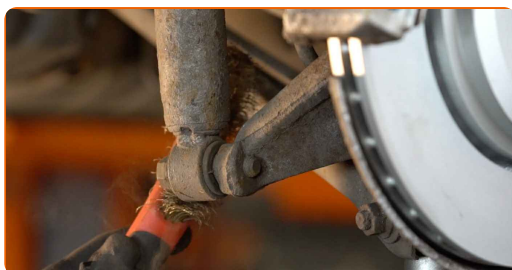
21

Support the arm. Use a hydraulic transmission jack.



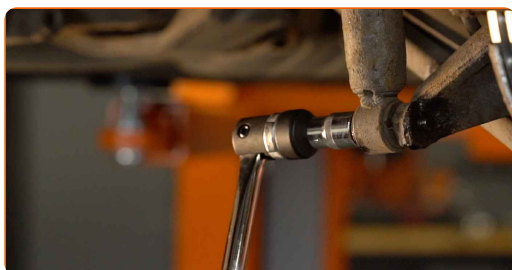
22

Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



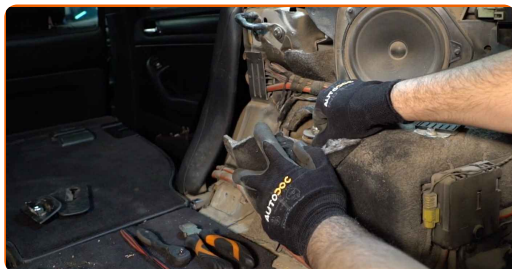
23

Unscrew the lower fastener of the shock absorber. Use a drive socket #18. Use a tap wrench.



24

Unscrew the upper fastener of the shock absorber. Use a drive socket #13. Use a ratchet wrench.

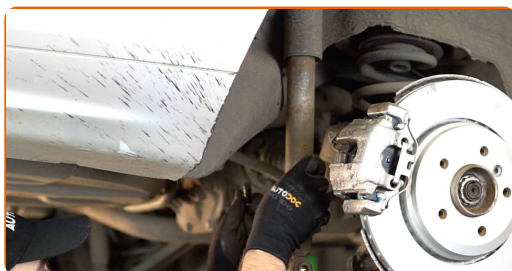


AUTODOC recommends:

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

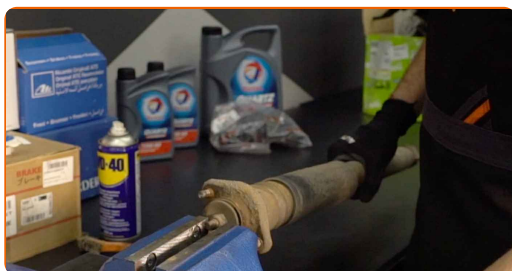
25

Remove the shock absorber.



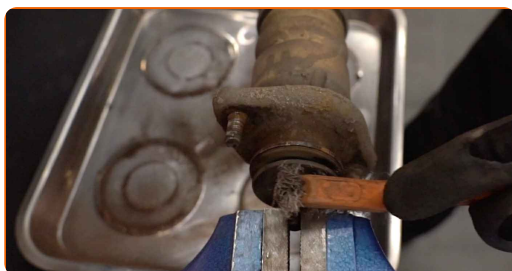
26

Grip the shock absorber in a vice.



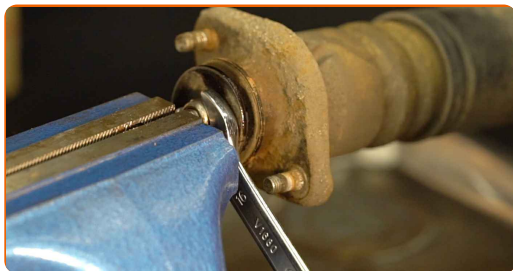
27

Clean the shock absorber rod fastener. Use a wire brush. Use WD-40 spray.



28

Remove the shock absorber piston rod fastening. Use a combination spanner #16.



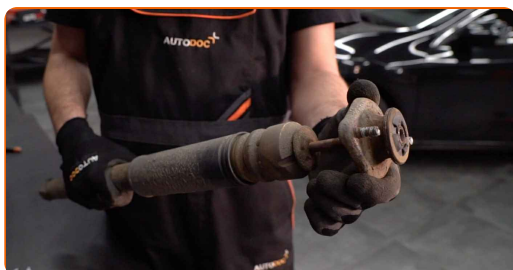
29

Release the vice and take out the shock absorber.



30

Remove the shock absorber mount, boot and bump stop.



AUTODOC recommends:

- Replacement: shock absorbers – BMW E46 touring. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.