

## VIDEO TUTORIAL



### Important!

This replacement procedure can be used for:

BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 1 Coupe (E82) 118d 2.0, BMW 3 Coupe (E92) 318i 2.0, BMW 3 Convertible (E93) 318i 2.0, BMW 3 Convertible (E93) 325d 3.0, BMW 1 Hatchback (E81) 116i 1.6, BMW 1 Hatchback (E81) 120d 2.0, BMW 3 Saloon (E90) 320i 2.0, BMW 3 Saloon (E90) 325i 2.5, BMW 3 Saloon (E90) 330i 3.0, BMW 3 Saloon (E90) 320d 2.0, (+ 67)

The steps may slightly vary depending on the car design.

## REPLACEMENT: SHOCK ABSORBERS – BMW E92. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #15
- Torx bit T30
- Drive socket # 6
- Drive socket # 17
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Phillips screwdriver
- Clip removal tool
- Crow bar
- Hydraulic transmission jack
- Wheel chock

**BUY TOOLS**

### Replacement: shock absorbers – BMW E92. Tip from AUTODOC experts:

- 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 E92. USE THE FOLLOWING PROCEDURE:

**1** Open the boot lid.



**2** Unscrew the fasteners of the side plastic trim panel.



**3** Remove the side plastic cover.



- 4 Fold down the backrests of the rear seats.



- 5 Unscrew the fastener of the central protective plastic panel. Use a clip removal tool. Use a Phillips screwdriver.



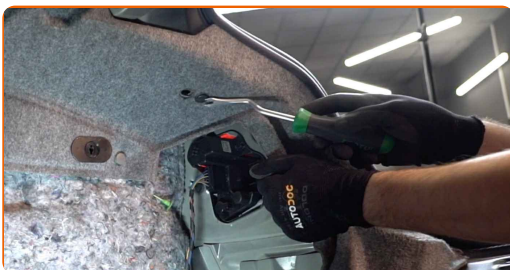
- 6 Remove the rubber strip.



- 7 Remove the central protective plastic panel.

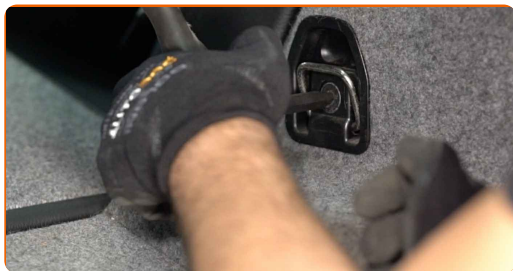


- 8 Remove the clips of the boot side lining. Use a clip removal tool.



9

Unscrew the fastener of the boot side lining. Use Torx T30. Use a ratchet wrench.



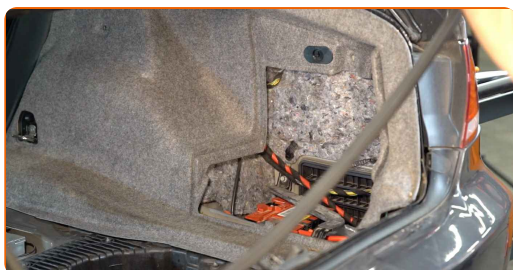
10

Raise the lower lining of the boot.



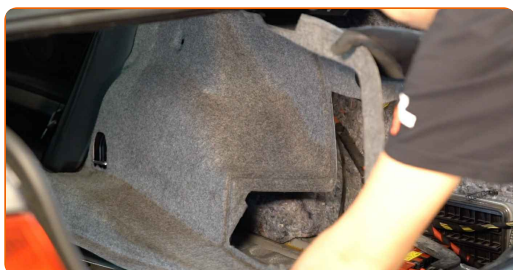
11

Remove the rubber strip.



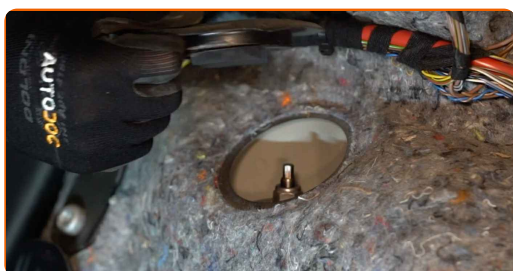
12

Detach the boot side lining.



13

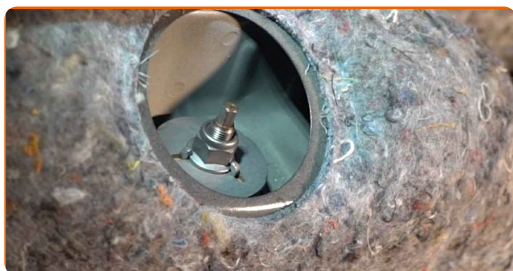
Remove the mount cap from the shock absorber upper fastener.





14

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



15

Loosen the upper fastener of the shock absorber. Use a combination spanner #15. Use a drive socket #6. Use a ratchet wrench.

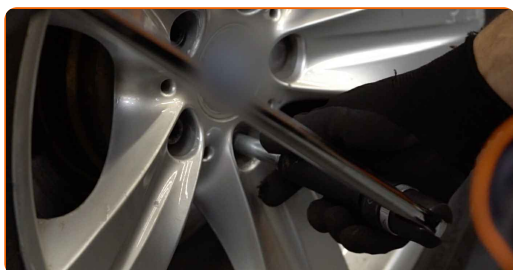


16

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.

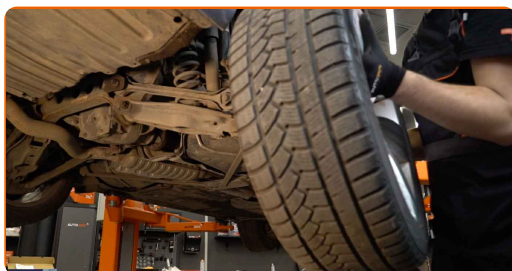


Replacement: shock absorbers – BMW E92. AUTODOC recommends:

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

20

Remove the wheel.



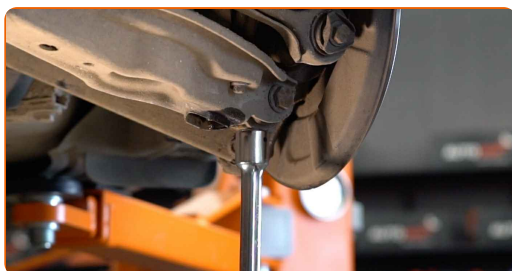
21

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



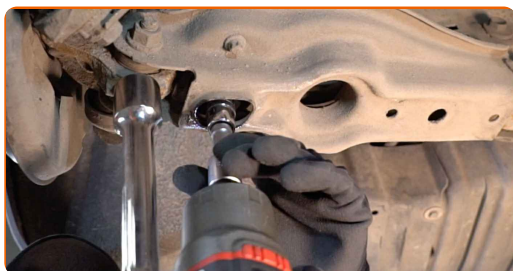
22

Support the arm. Use a hydraulic transmission jack.



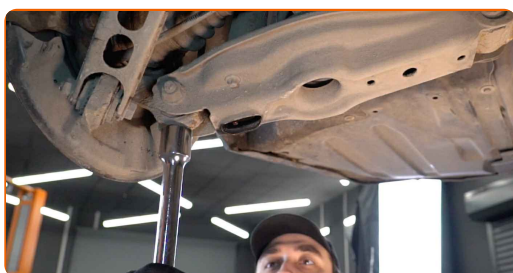
23

Unscrew the lower fastener of the shock absorber. Use a drive socket #17.



24

Remove the support from under the arm.

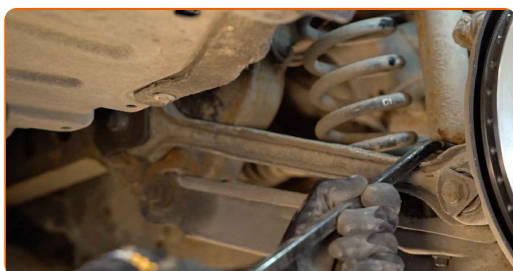


### AUTODOC recommends:

- Replacement: shock absorbers – BMW E92. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

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Detach the lower part of the shock absorber. Use a crowbar.



26

Unscrew the upper fastener of the shock absorber. Use a combination spanner #15. Use a drive socket #6. Use a ratchet wrench.



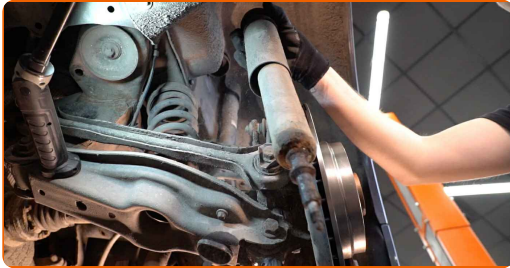


### Replacement: shock absorbers – BMW E92. Tip:

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

27

Remove the shock absorber.



28

Remove the shock absorber dust cap and the bump stop.

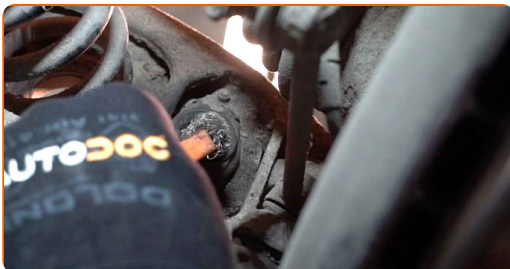


### Replacement: shock absorbers – BMW E92. Tip from AUTODOC experts:

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

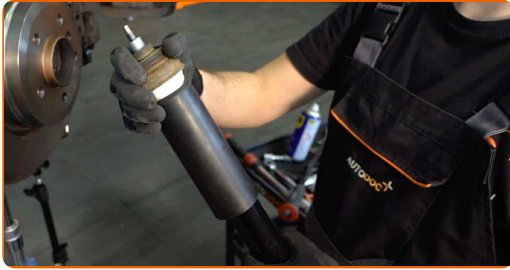
29

Treat the shock absorber mounting seats. Use a wire brush. Use WD-40 spray.



30

Install the dust sleeve and the bump stop on the new shock absorber.

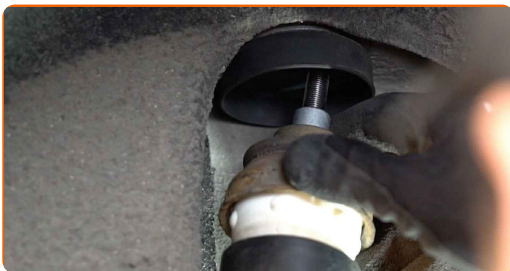


Replacement: shock absorbers – BMW E92. Professionals recommend:

- Before installing a new shock absorber you should pump it manually 3-5 times.

31

Place the shock absorber in the wheel arch and secure it.



AUTODOC recommends:

- Important! Hold the shock absorber while screwing in the fastening bolts. BMW E92

32

Support the arm. Use a hydraulic transmission jack.

