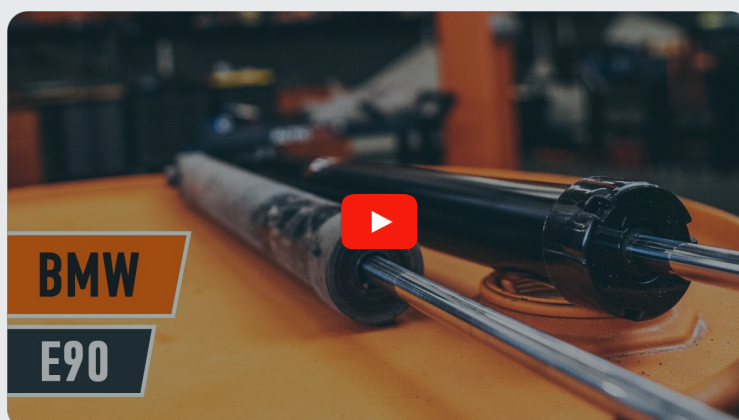


SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

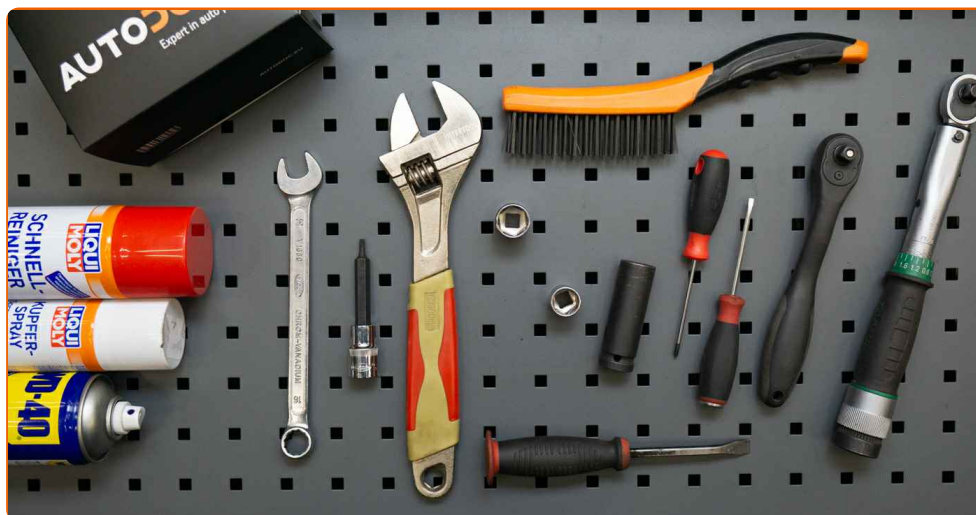
This replacement procedure can be used for:

BMW 1 Hatchback (E87) 116i 1.6, BMW 1 Hatchback (E87) 116i 2.0, BMW 1 Hatchback (E87) 118i 2.0, BMW 1 Hatchback (E87) 120i 2.0, BMW 1 Hatchback (E87) 130i 3.0, BMW 1 Hatchback (E87) 116d 2.0, BMW 1 Hatchback (E87) 118d 2.0, BMW 1 Hatchback (E87) 120d 2.0, BMW 1 Hatchback (E87) 123d 2.0

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Saloon (E90) 318i 2.0

REPLACEMENT: SHOCK ABSORBERS – BMW 1 HATCHBACK (E87). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #16
- Drive socket # 16
- Drive socket # 17
- Torx bit T25
- Wheel impact socket #17
- Ratchet wrench
- Flat Screwdriver
- Phillips screwdriver
- Adjustable wrench
- Crow bar
- Hydraulic transmission jack
- Wheel chock

Buy tools

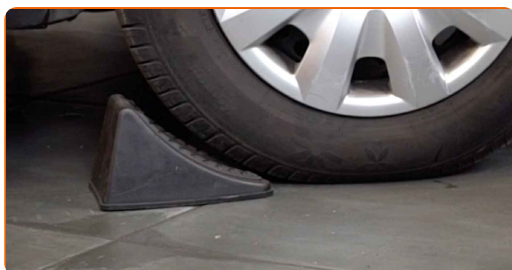
Replacement: shock absorbers – BMW 1 Hatchback (E87). Tip from AUTODOC:

- 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.
- Please note: all work on the car – BMW 1 Hatchback (E87) – should be done with the engine switched off.

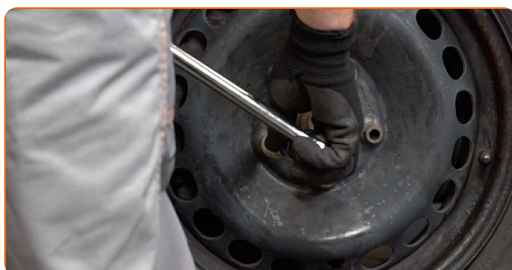
CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Secure the wheels with chocks.

**2**

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

**3**

Raise the rear of the car and secure on supports.

4

Unscrew the wheel bolts.

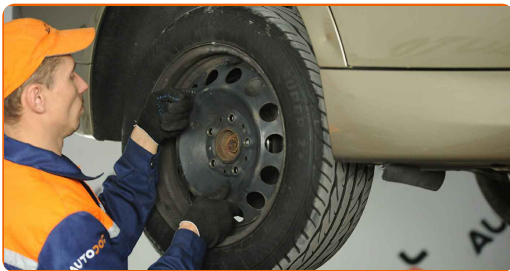


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
BMW 1 Hatchback (E87)

5

Remove the wheel.



6

Support the stub axle. Use a hydraulic transmission jack.



7

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

8

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

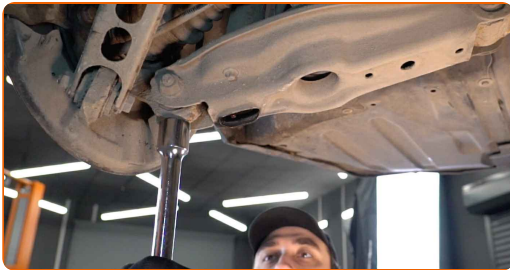


9

Remove the fastening bolt.

10

Remove the support from under the stub axle.

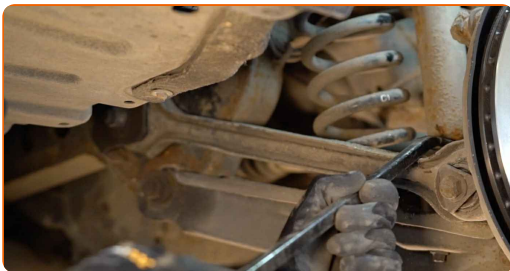


AUTODOC recommends:

- BMW 1 Hatchback (E87) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

11

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



12

Lower the car.

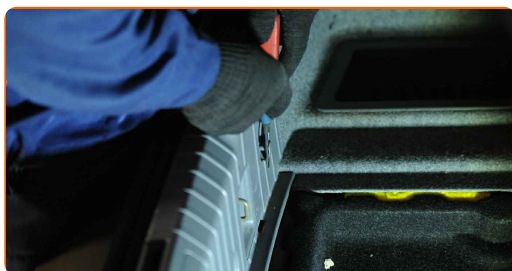
13

Open the boot lid.

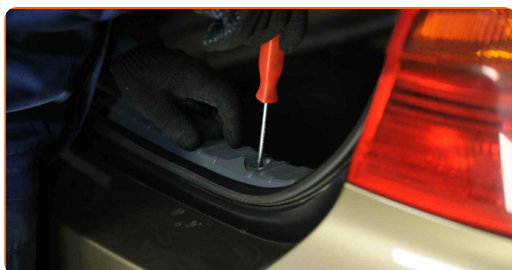
- 14** Remove the boot front lower lining.



- 15** Remove the clips from the plastic boot sill guard. Use flat screwdrivers (2 pieces).



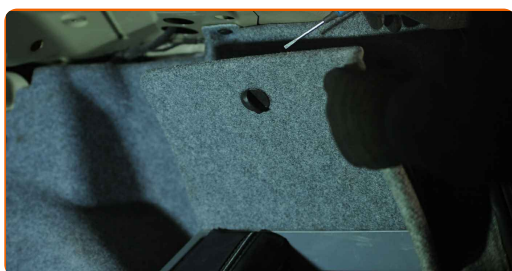
- 16** Unscrew the fasteners of the plastic boot sill guard. Use a Phillips screwdriver.



- 17** Remove the plastic door sill plate.



- 18** Remove the cover of the boot side lining.



- 19 Remove the clips of the boot side lining. Use a flat screwdriver.



- 20 Unscrew the fastener of the boot side lining. Use Torx T25. Use a ratchet wrench.



- 21 Remove the boot side lining.

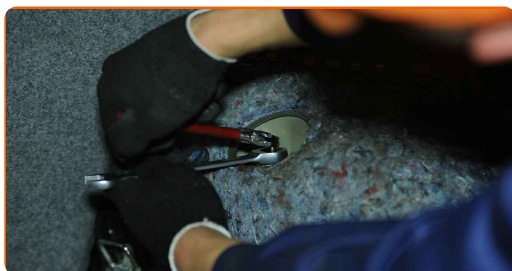


- 22 Remove the protective cap of the shock absorber mount. Use a flat screwdriver.



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

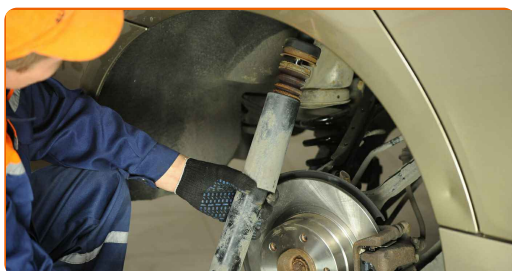
- 24 Unscrew the upper fastener of the shock absorber. Use a combination spanner #16. Use an adjustable wrench.



AUTODOC recommends:

- Important! Hold the shock absorber while unscrewing the fastening bolts. BMW 1 Hatchback (E87)

- 25 Remove the shock absorber.



- 26 Remove the shock absorber upper mount.

- 27 Remove the shock absorber dust cap and the bump stop.



AUTODOC recommends:

- Replacement: shock absorbers – BMW 1 Hatchback (E87). 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.

28

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

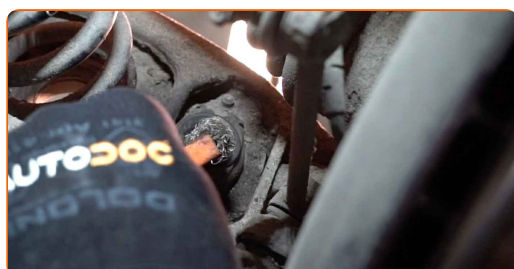


29

Install the shock absorber upper mount.

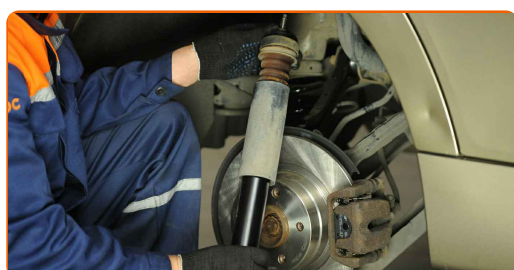
30

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



31

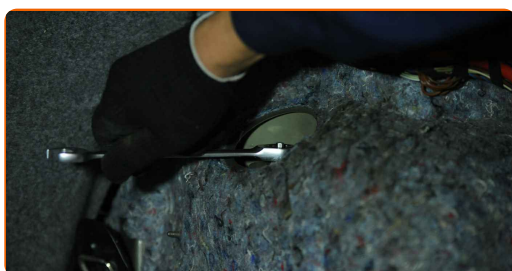
Place the shock absorber in the wheel arch and secure it.



AUTODOC recommends:

- Important! Hold the shock absorber while screwing in the fastening bolts. BMW 1 Hatchback (E87)

- 32** Tighten the top shock absorber fastening. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 27 Nm torque.



- 33** Treat the shock absorber fasteners. Use copper grease.

- 34** Install the protective shock absorber mounting cap.



- 35** Attach the side lining of the boot.

