



How to change rear
shock absorbers on **BMW**
E82 – replacement guide

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, (+ 70)

The steps may slightly vary depending on the car design.

**REPLACEMENT: SHOCK ABSORBERS – BMW E82.
TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 14
- Drive socket # 16
- Torx bit T40
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Shock absorber socket #DD6
- Phillips screwdriver
- Clip removal tool
- Hydraulic transmission jack
- Wheel chock

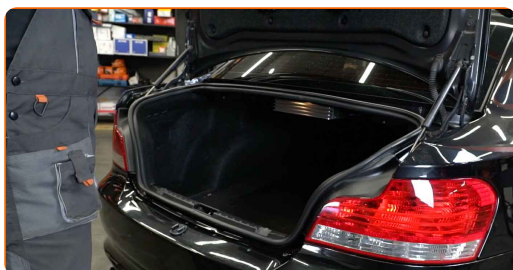
BUY TOOLS

Replacement: shock absorbers – BMW E82. AUTODOC recommends:

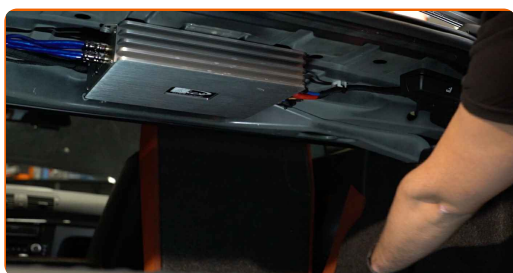
- Both shock absorbers of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock absorbers of the rear suspension.
- All work should be done with the engine stopped.

REPLACEMENT: SHOCK ABSORBERS – BMW E82. RECOMMENDED SEQUENCE OF STEPS:

1 Open the boot lid.



2 Fold down the backrests of the rear seats.



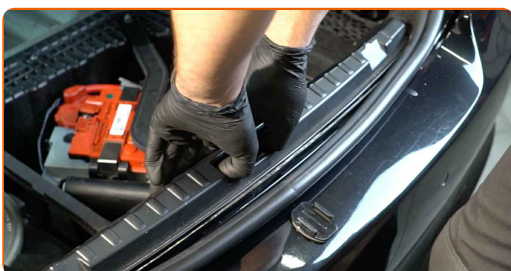
3 Raise the lower lining of the boot.



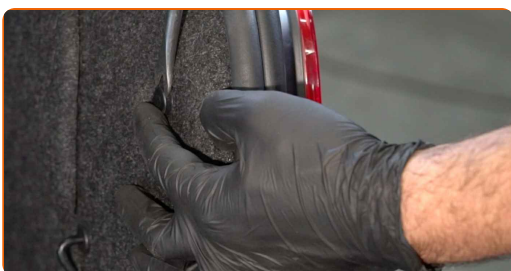
4 Unscrew the fastener of the central protective plastic panel. Use a clip removal tool. Use a Phillips screwdriver. Use Torx T40. Use a ratchet wrench.



5 Remove the central protective plastic panel.



6 Unscrew the fastener of the boot side lining. Use a clip removal tool. Use Torx T40. Use a ratchet wrench.



7 Detach the boot side lining.



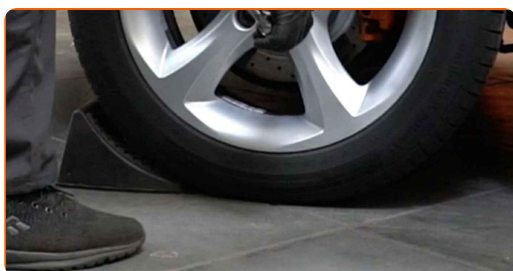
8 Remove the mount cap from the shock absorber upper fastener.



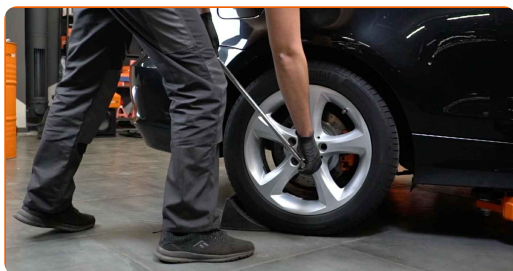
9 Loosen the upper fastener of the shock absorber. Use a shock absorber socket DDN^o6. Use a drive socket #16. Use a ratchet wrench.



10 Secure the wheels with chocks.



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



12 Raise the rear of the car and secure on supports.



13 Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. BMW E82

14 Remove the wheel.

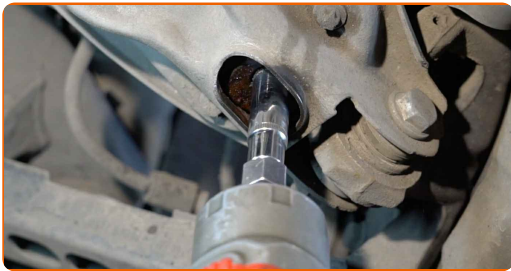


15 Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



16

Unscrew the lower fastener of the shock absorber. Use a drive socket #14. Use a ratchet wrench.



17

Unscrew the upper fastener of the shock absorber.

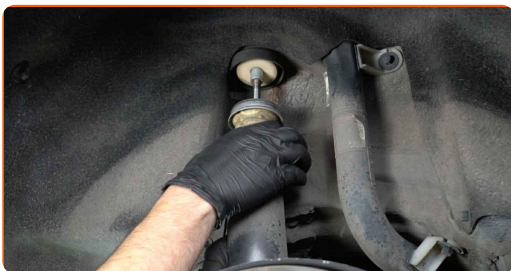


Replacement: shock absorbers – BMW E82. AUTODOC experts recommend:

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

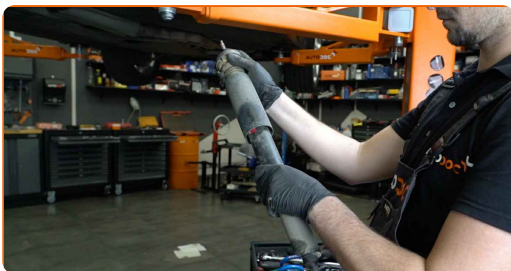
18

Remove the shock absorber.



19

Remove the shock absorber mount, boot and bump stop.

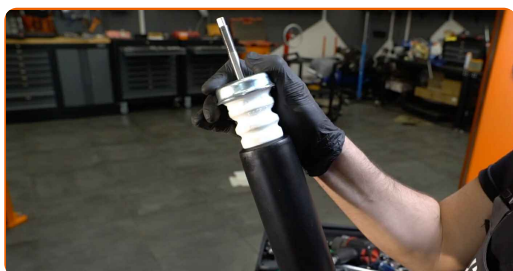


AUTODOC recommends:

- Replacement: shock absorbers – BMW E82. 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.

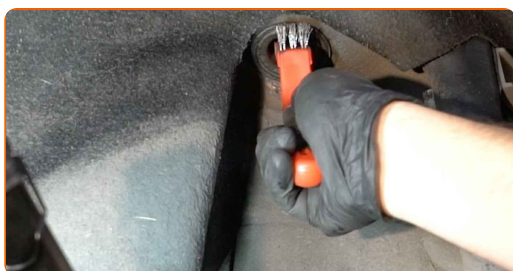
20

Install the mount, boot and bump stop onto a new shock absorber.



21

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



22

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

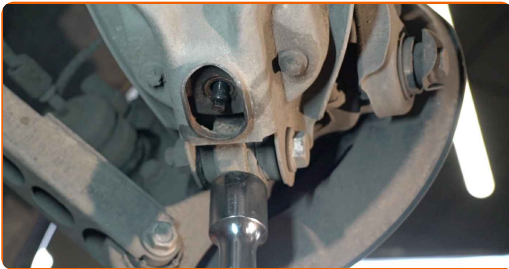


AUTODOC recommends:

- Important! Hold the shock absorber while screwing in the fastening bolts. BMW E82

23

Support the stub axle. Use a hydraulic transmission jack.



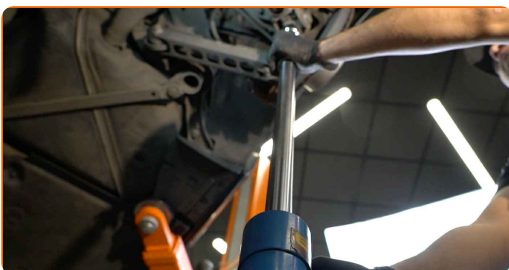
24

Screw in the lower fastener of the shock absorber. Use a drive socket #14. Use a ratchet wrench.



25

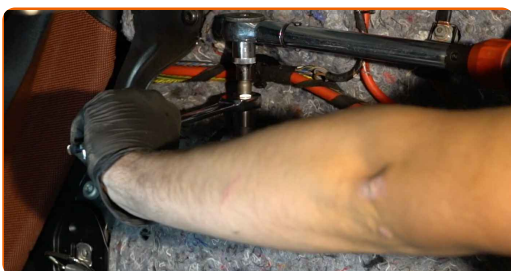
Remove the support from under the stub axle.



Replacement: shock absorbers – BMW E82. Professionals recommend:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

- 26 Tighten the top shock absorber fastening. Use a shock absorber socket DDN[®]6. Use a drive socket #16. Use a torque wrench. Tighten it to 27 Nm torque.



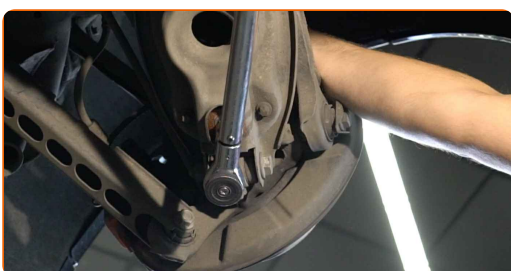
- 27 Treat the shock absorber fasteners. Use copper grease.



- 28 Install the mount cap on the shock absorber upper fastener.



- 29 Tighten the lower fastener of the shock absorber. Use a drive socket #14. Use a torque wrench. Tighten it to 60 Nm torque.

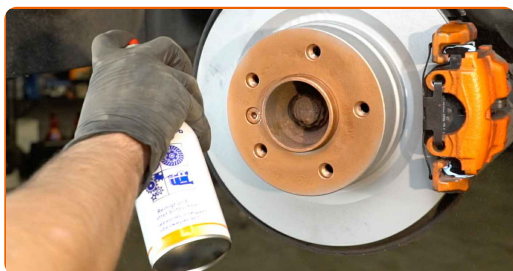


- 30 Treat the shock absorber fasteners. Treat all joints of the arm. Use copper grease.

31 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



32 Clean the brake disk surface. Use a brake cleaner.



Replacement: shock absorbers – BMW E82. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

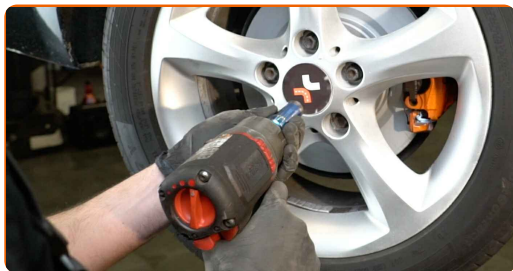
33 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW E82

34 Screw in the wheel bolts. Use wheel impact socket #17.



35 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.



36 Remove the jacks and chocks.



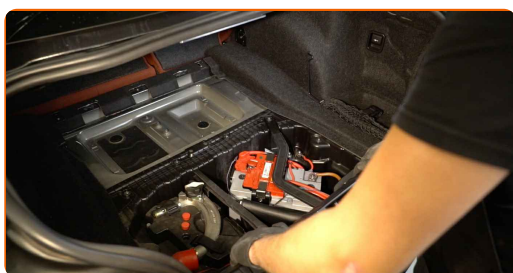
37 Attach the side lining of the boot.



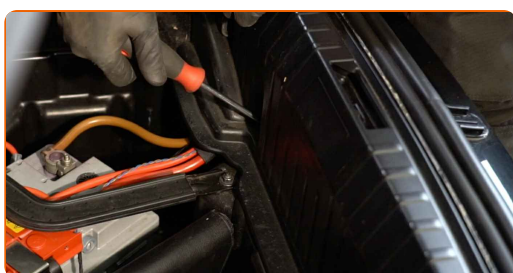
38 Screw in the fastener of the boot side lining. Use Torx T40. Use a ratchet wrench.



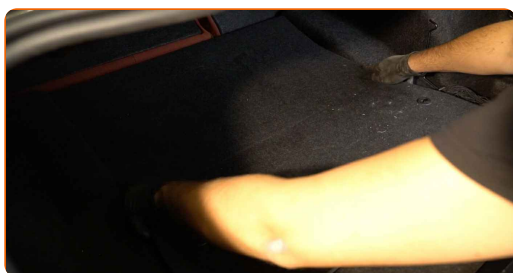
39 Install the central protective plastic panel.



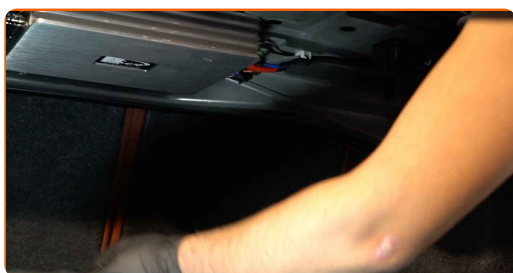
40 Screw in the fastener of the central protective plastic panel. Use a Phillips screwdriver. Use Torx T40. Use a ratchet wrench.



41 Put down the lower lining of the boot.



42 Return the seat to its original position.



43

Close the lid of the luggage compartment.



WELL DONE! 

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