

VIDEO TUTORIAL



i 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

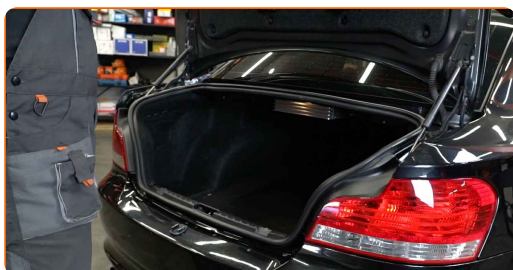
BUY TOOLS

Replacement: shock absorbers – BMW E82. AUTODOC recommends:

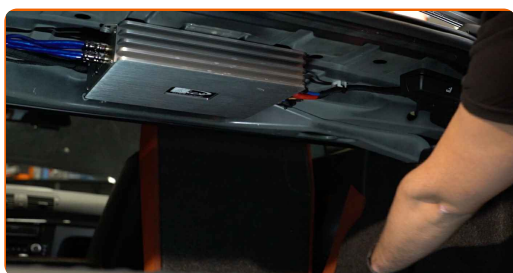
- Both shock absorbers of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock absorbers of the rear suspension.
- All work should be done with the engine stopped.

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

1 Open the boot lid.



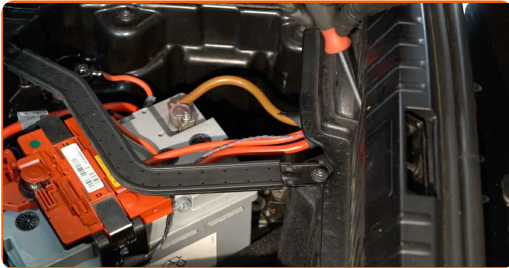
2 Fold down the backrests of the rear seats.



3 Raise the lower lining of the boot.



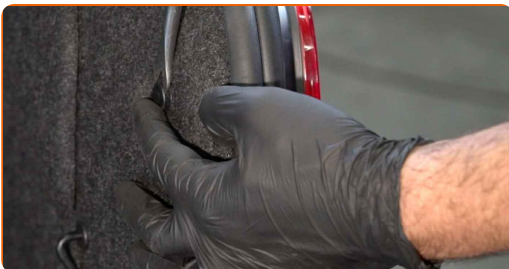
- 4 Unscrew the fastener of the central protective plastic panel. Use a clip removal tool. Use a Phillips screwdriver. Use Torx T40. Use a ratchet wrench.



- 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.

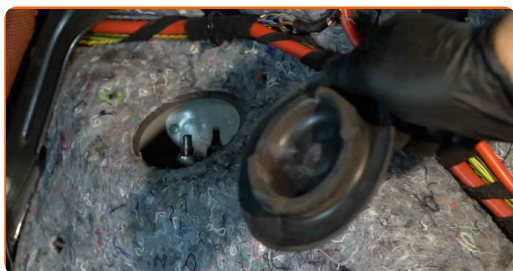


- 7 Detach the boot side lining.



8

Remove the mount cap from the shock absorber upper fastener.



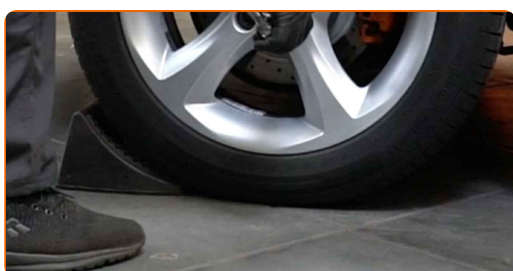
9

Loosen the upper fastener of the shock absorber. Use a shock absorber socket DDN[®]6. 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

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Remove the wheel.



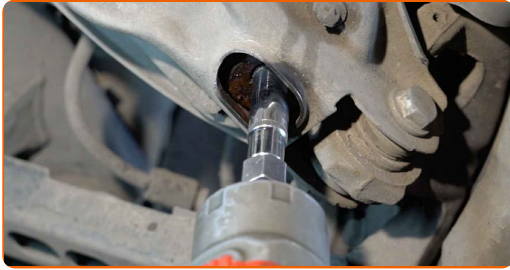
15

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.

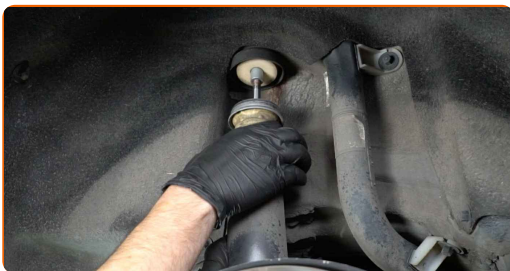


Replacement: shock absorbers – BMW E82. AUTODOC experts recommend:

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

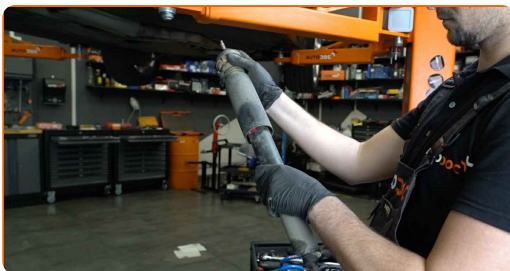
18

Remove the shock absorber.



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Remove the shock absorber mount, boot and bump stop.

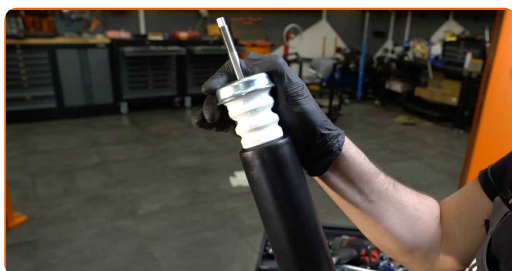


AUTODOC recommends:

- 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.

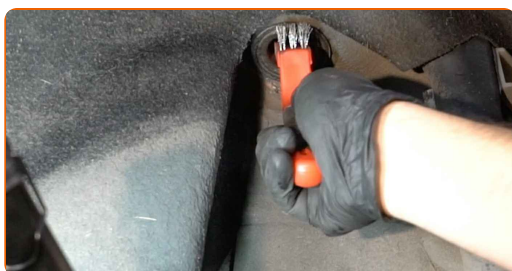
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Install the mount, boot and bump stop onto a new shock absorber.



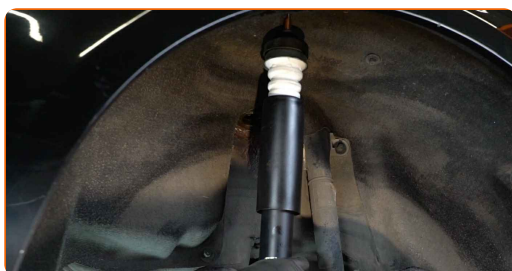
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Clean the shock absorber mounting seats. Use a wire brush. Use WD-40 spray.



22

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

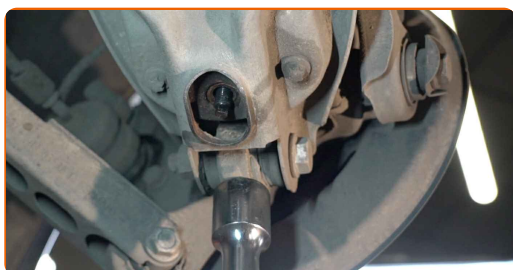


AUTODOC recommends:

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

23

Support the stub axle. Use a hydraulic transmission jack.



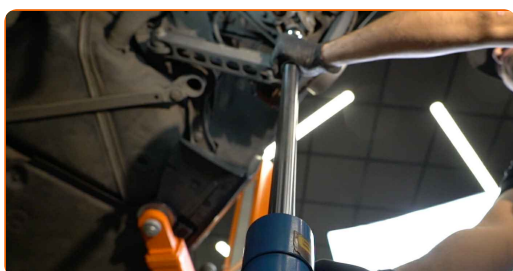
24

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



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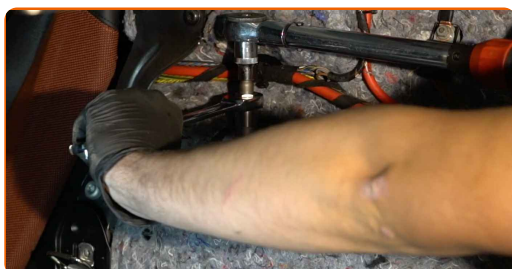
Remove the support from under the stub axle.



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.



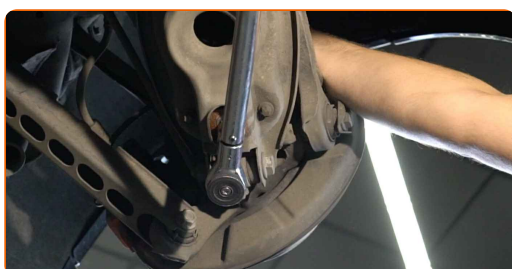
- 27** Treat the shock absorber fasteners. Use copper grease.



- 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.