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How to change rear shock absorbers on **BMW 3 Saloon (E46)** – replacement guide







SIMILAR VIDEO TUTORIAL



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

i Important!

This replacement procedure can be used for:

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 Saloon (E46) 316i 1.9, BMW 3 Saloon (E46) 330d 2.9, BMW 3 Saloon (E46) 330i 3.0, BMW 3 Saloon (E46) 320i 2.2, BMW 3 Saloon (E46) 325i 2.5, BMW 3 Saloon (E46) 316i 1.6, BMW 3 Saloon (E46) 318i 2.0, BMW 3 Saloon (E46) 318d 2.0, BMW 3 Saloon (E46) 316i 1.8, BMW 3 Saloon (E46) 330d 3.0

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 Convertible (E46) 318Ci 2.0

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REPLACEMENT: SHOCK ABSORBERS – BMW 3 SALOON (E46). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #17
- Drive socket # 13
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench

- Torque wrench
- Adjustable wrench
- Tap wrench
- Crow bar
- Vice
- Hydraulic transmission jack
- Wheel chock

Buy tools

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Replacement: shock absorbers – BMW 3 Saloon (E46). 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.
- Please note: all work on the car BMW 3 Saloon (E46) should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

- Press and hold the folding roof control switch. Hold the button pressed until you get access to the upper fasteners of the shock absorber.
- Remove the shock strut mount caps. Use a crowbar.



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



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



5 Secure the wheels with chocks.



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



- Raise the rear of the car and secure on supports.
- 8 Unscrew the wheel bolts.



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Replacement: shock absorbers – BMW 3 Saloon (E46). Tip:

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

Remove the wheel.



Support the arm. Use a hydraulic transmission jack.



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



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



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13 Remove the fastening bolt.



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



AUTODOC recommends:

- Important! Hold the shock absorber while unscrewing the fastening bolts. BMW 3 Saloon (E46)
- Remove the shock absorber.



Grip the shock absorber in a vice.



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Clean the shock absorber rod fastener. Use a wire brush.



Remove the shock absorber piston rod fastening. Use a combination spanner #17.



Release the vice and take out the shock absorber.

20



Remove the shock absorber mount, boot and bump stop.



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Replacement: shock absorbers – BMW 3 Saloon (E46). AUTODOC recommends:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.
- Install the mount, boot and bump stop onto a new shock absorber.



Grip the shock absorber in a vice.



Screw the shock strut piston rod upper fastening. Use a combination spanner #17. Use an adjustable wrench. Use a torque wrench. Tighten it to 20 Nm torque.



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Release the vice and take out the shock absorber.



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



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



Replacement: shock absorbers – BMW 3 Saloon (E46). AUTODOC experts recommend:

 To avoid injury, hold the shock absorber cautiously tight when screwing in the fastening bolts.

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Screw the upper fastener of the shock absorber. Use a drive socket #13. Do not tighten it.



Tighten the lower fastener of the shock absorber. Use a drive socket #18. Use a torque wrench. Tighten it to 100 Nm torque.



Remove the support from under the arm.



AUTODOC recommends:

• Replacement: shock absorbers – BMW 3 Saloon (E46). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

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Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



31 Install the wheel.



AUTODOC recommends:

 Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW 3 Saloon (E46)

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



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Tighten the top shock absorber fastening. Use a drive socket #13. Use a torque wrench. Tighten it to 28 Nm torque.



Install the shock strut mount caps.



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



Remove the jacks and chocks.





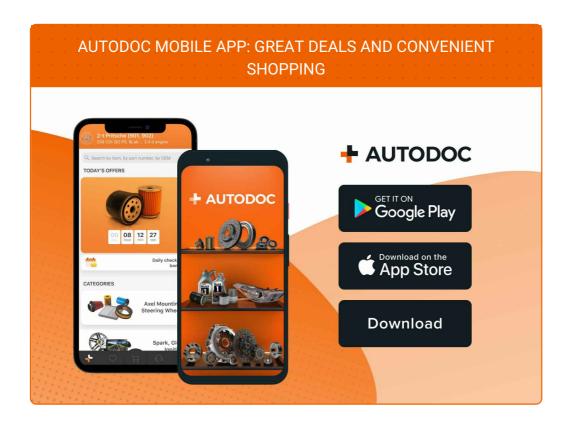
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