



How to change rear strut  
mount on **BMW 1**  
**Hatchback (E81)** –  
replacement guide

### 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 (E81) 116i 1.6, BMW 1 Hatchback (E81) 120d 2.0, BMW 1 Hatchback (E81) 130i 3.0, BMW 1 Hatchback (E81) 118i 2.0, BMW 1 Hatchback (E81) 120i 2.0, BMW 1 Hatchback (E81) 118d 2.0, BMW 1 Hatchback (E81) 123d 2.0, BMW 1 Hatchback (E81) 116i 2.0, BMW 1 Hatchback (E81) 116d 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 1 Coupe (E82) 125i 3.0

**REPLACEMENT: STRUT MOUNT – BMW 1 HATCHBACK (E81). LIST OF THE 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: strut mount – BMW 1 Hatchback (E81). AUTODOC experts recommend:

- The replacement procedure is identical for the mounts of the right and left shock absorbers of the rear suspension.
- Both mounts of the rear shock struts should be replaced simultaneously.
- Be sure to replace all self-locking nuts and bolts during installation.
- All work should be done with the engine stopped.

## REPLACEMENT: STRUT MOUNT – BMW 1 HATCHBACK (E81). USE THE FOLLOWING PROCEDURE:

**1** Open the boot lid.

**2** Fold down the backrests of the rear seats.

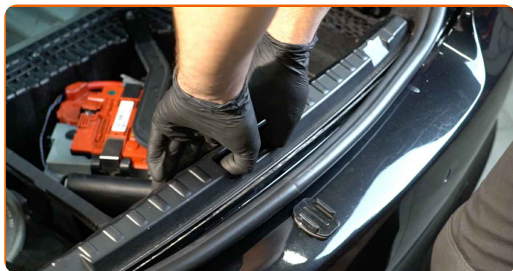
**3** Raise the lower lining of the boot.



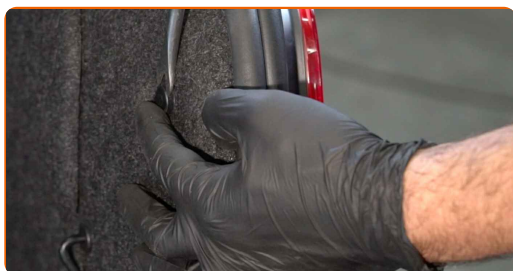
**4** Unscrew the fastener of the central protective plastic panel. Use a Phillips screwdriver. Use a clip removal tool. Use Torx T40. Use a ratchet wrench.



**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.



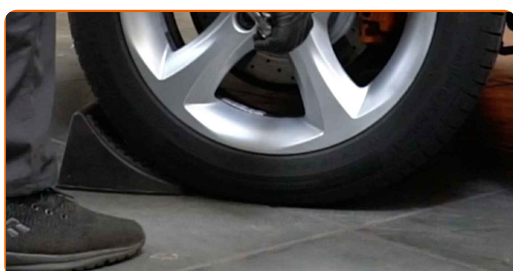
**8** Remove the mount cap from the shock absorber upper fastener.



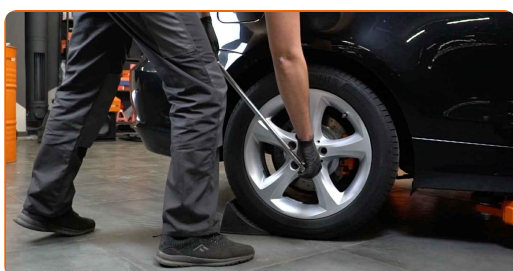
- 9 Loosen the upper fastener of the shock absorber. Use a shock absorber socket DDN<sup>6</sup>. Use a drive socket #16. Use a ratchet wrench.



- 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.





Replacement: strut mount – BMW 1 Hatchback (E81). Tip:

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

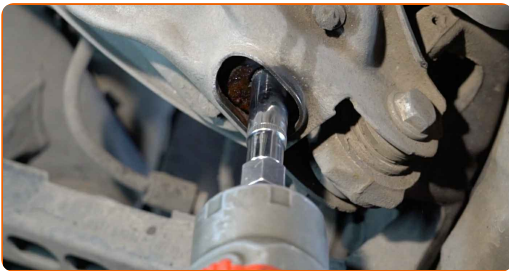
**14** Remove the wheel.



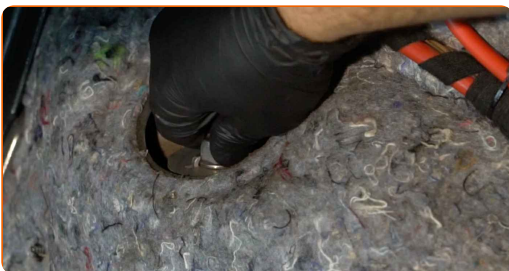
**15** Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



**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.



**AUTODOC recommends:**

- Important! Hold the shock absorber while unscrewing the fastening bolts. BMW 1 Hatchback (E81)

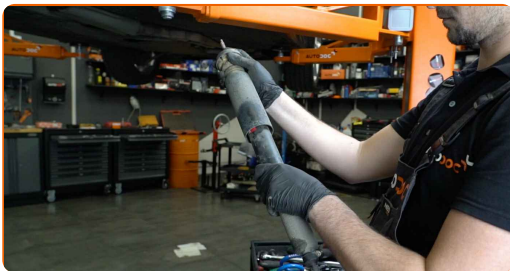
**18**

Remove the shock absorber.



**19**

Remove the shock absorber mount, boot and bump stop.

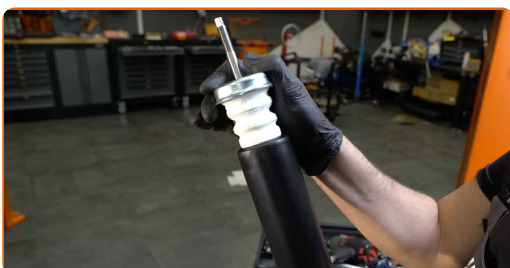


**Replacement: strut mount – BMW 1 Hatchback (E81). AUTODOC experts recommend:**

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

**20**

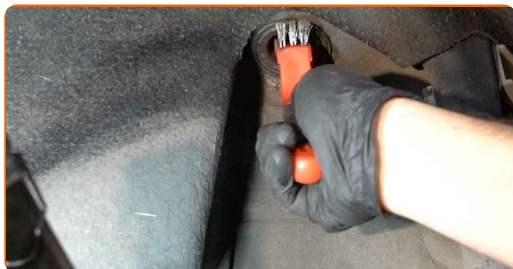
Install the new mount, boot, and bump stop on the shock absorber.





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.

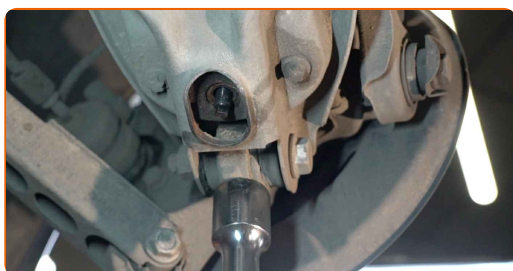


**AUTODOC recommends:**

- BMW 1 Hatchback (E81) – To avoid injury, hold the shock absorber while screwing in the fastening bolts.

23

Support the stub axle. Use a hydraulic transmission jack.

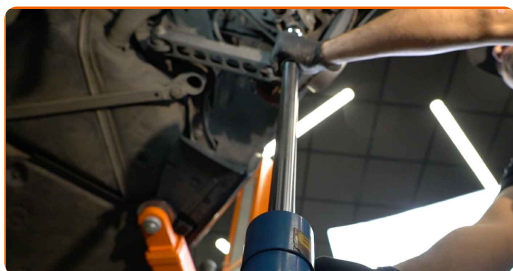


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Screw in the lower fastener of the shock absorber. Use a drive socket #14. Use a ratchet wrench.



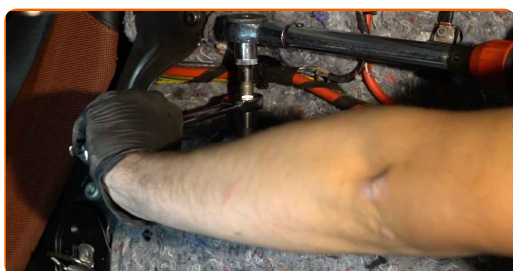
**25** Remove the support from under the stub axle.



**AUTODOC recommends:**

- Replacement: strut mount – BMW 1 Hatchback (E81). Lower the transmission jack smoothly, without jerks, to avoid damaging components 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.

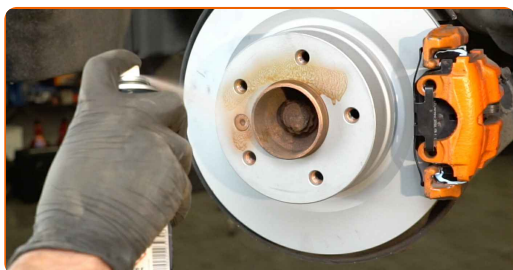


- 29** Tighten the lower fastener of the shock absorber. Use a drive socket #14. Use a torque wrench. Tighten it to 60 Nm torque.

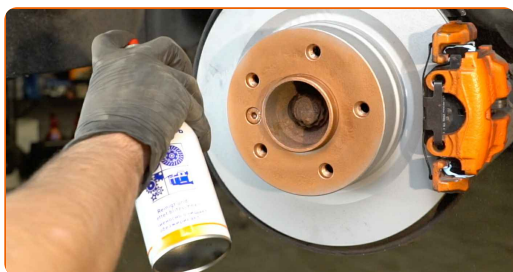


- 30** Treat the shock absorber fasteners. Treat all joints of the arm. Use copper grease.

- 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: strut mount – BMW 1 Hatchback (E81). Tip from AUTODOC:

- After applying the spray, wait a few minutes.

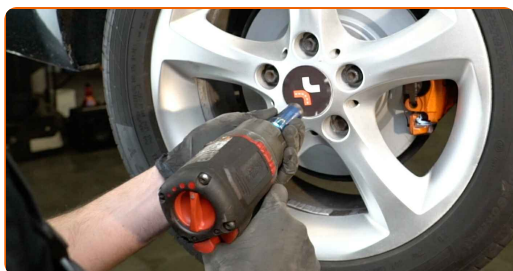
**33** Install the wheel.



Replacement: strut mount – BMW 1 Hatchback (E81). Tip from AUTODOC experts:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

**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.



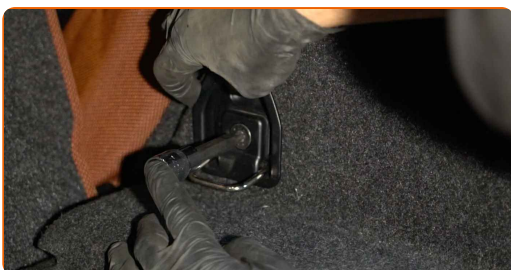
**36** Remove the jacks and chocks.



**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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**STRUT MOUNT: A WIDE SELECTION**

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