



How to change rear strut
mount on **MINI Roadster**
(R59) – 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:

MINI Roadster (R59) 1.6 Cooper S, MINI Roadster (R59) 1.6 Cooper, MINI Roadster (R59) 1.6 John Cooper Works, MINI Roadster (R59) 2.0 Cooper SD, MINI Roadster (R59) Cooper

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: MINI Hatchback (R50, R53) 1.6 Cooper

REPLACEMENT: STRUT MOUNT – MINI ROADSTER (R59). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Combination spanner #19
- Drive socket # 13
- Drive socket # 21
- HEX bit No.H6.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Wheel chock

Buy tools

Replacement: strut mount – MINI Roadster (R59). AUTODOC recommends:

- The replacement procedure is identical for the mounts of the left and right shock struts of the rear suspension.
- All mounts of the rear shock struts should be replaced simultaneously.
- Be sure to replace all self-locking nuts and bolts during installation.
- Please note: all work on the car – MINI Roadster (R59) – 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.



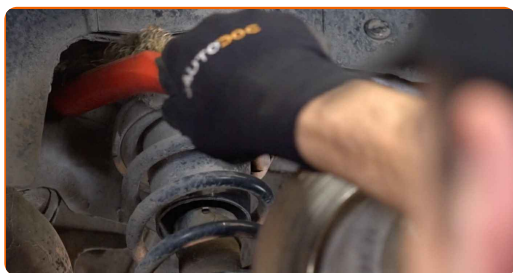
Replacement: strut mount – MINI Roadster (R59). Tip:

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

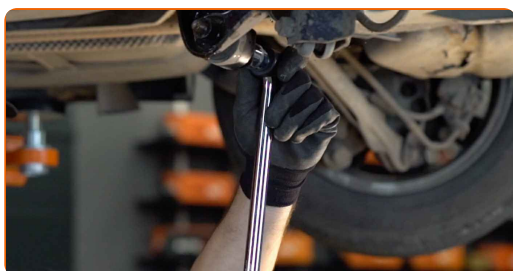
5 Remove the wheel.



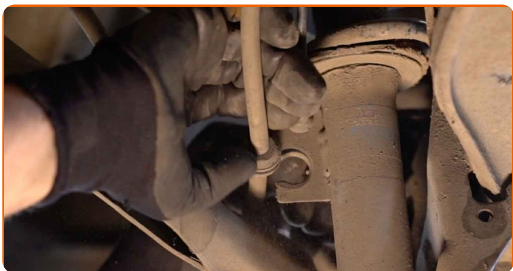
6 Clean the shock strut fasteners. Use a wire brush. Use WD-40 spray.



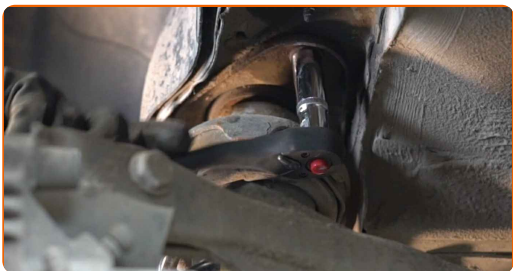
7 Unscrew the lower fastener of the shock absorber strut. Use a drive socket #21. Use a ratchet wrench. Use a tap wrench.



8 Disconnect the wiring and the brake hose from the bracket on the shock strut.



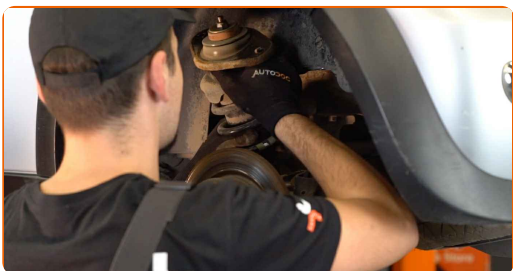
9 Unscrew the upper fastening of the shock absorber strut. Use a drive socket #13. Use a ratchet wrench.



AUTODOC recommends:

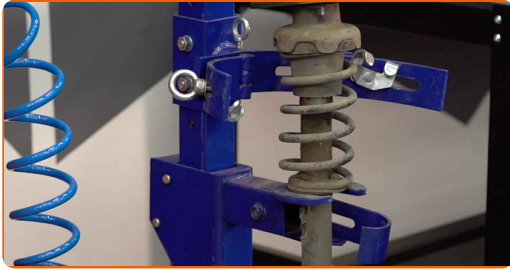
- Important! Hold the suspension strut while unscrewing the fastening bolts. MINI Roadster (R59)

10 Remove the suspension strut.



11

Set the shock absorber strut on the spring compressor tool.

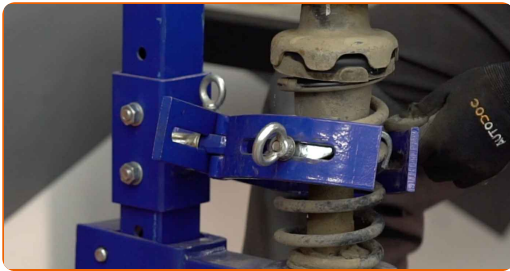


Replacement: strut mount – MINI Roadster (R59). AUTODOC experts recommend:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

12

Compress the spring.



13

Remove the strut piston rod nut. Use HEX No.H6. Use a combination spanner #19. Use a ratchet wrench.



14 Remove the top mount.



15 Install the top shock strut mount.



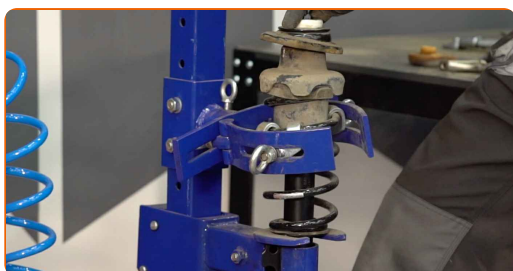
16 Tighten the shock strut piston rod nut. Use HEX No.H6. Use a combination spanner #19. Use a torque wrench. Tighten it to 30 Nm torque.



Replacement: strut mount – MINI Roadster (R59). Tip:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

17 Decompress the spring.



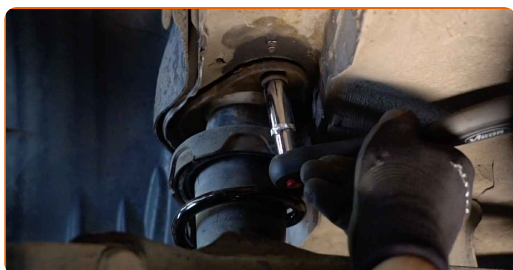
18 Remove the assembled shock strut.



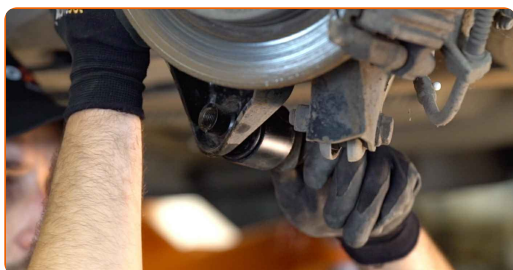
19 Install the shock strut into the wheel arch.



20 Tighten the shock strut top mount. Use a drive socket #13. Use a torque wrench. Tighten it to 56 Nm torque.



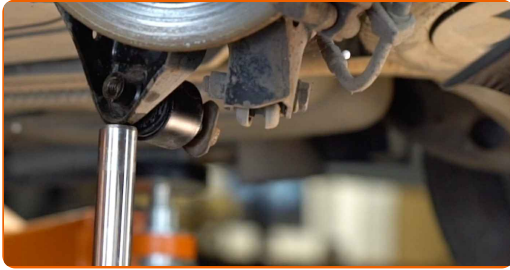
21 Install the lower fastener of the shock strut.



AUTODOC recommends:

- MINI Roadster (R59) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

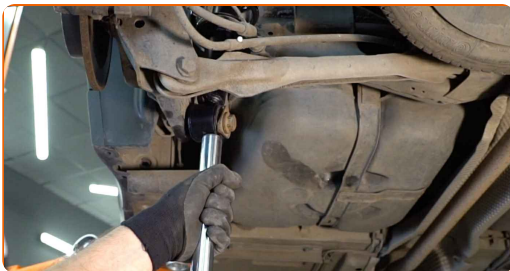
22 Support the arm. Use a hydraulic transmission jack.



23 Tighten the lower fastening of the shock absorber. Use a drive socket #21. Use a torque wrench. Tighten it to 140 Nm torque.



24 Remove the support from under the rear arm.



AUTODOC recommends:

- Replacement: strut mount – MINI Roadster (R59). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

25

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



26

Install the wheel.



Replacement: strut mount – MINI Roadster (R59). Professionals recommend:

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

27

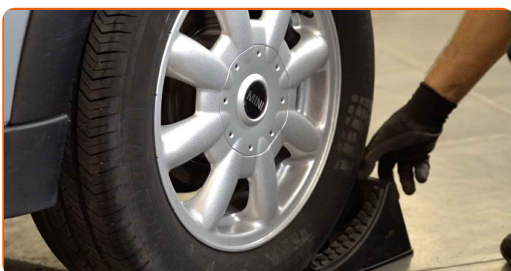
Screw in the wheel bolts. Use wheel impact socket #17.



- 28** Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 110 Nm torque.



- 29** Remove the jacks and chocks.



WELL DONE! 

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STRUT MOUNT: A WIDE SELECTION

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