



How to change rear
shock absorbers on
**MERCEDES-BENZ C-
Class T-modell (S204)** –
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:

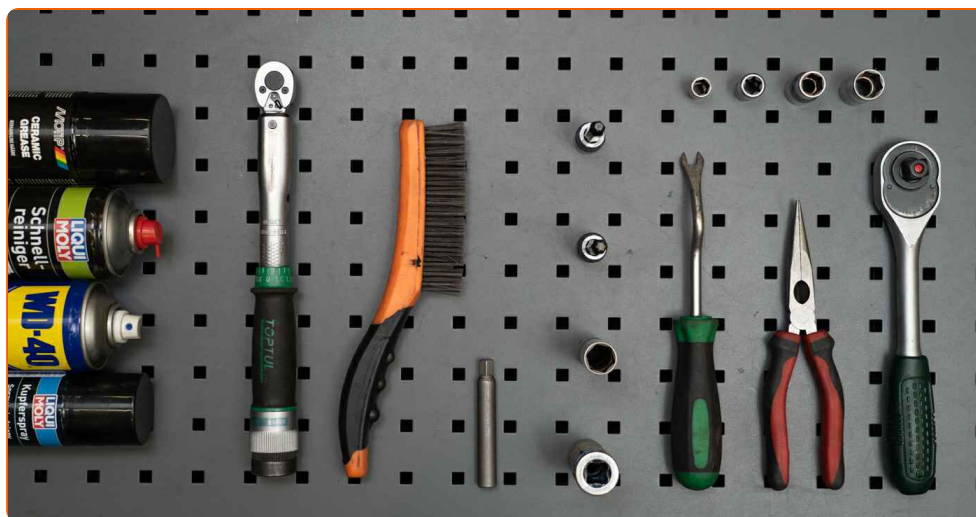
MERCEDES-BENZ C-Class T-modell (S204) C 250 CGI (204.247), MERCEDES-BENZ C-Class T-modell (S204) C 200 CDI (204.201), MERCEDES-BENZ C-Class T-modell (S204) C 250 CDI 4-matic (204.282), MERCEDES-BENZ C-Class T-modell (S204) C 180 CDI (204.200), MERCEDES-BENZ C-Class T-modell (S204) C 350 CDI (204.223), MERCEDES-BENZ C-Class T-modell (S204) C 350 CGI (204.257), MERCEDES-BENZ C-Class T-modell (S204) C 200 Kompressor (204.241), MERCEDES-BENZ C-Class T-modell (S204) C 230 (204.252), MERCEDES-BENZ C-Class T-modell (S204) C 280 (204.254), MERCEDES-BENZ C-Class T-modell (S204) C 350 (204.256), MERCEDES-BENZ C-Class T-modell (S204) C 200 CDI (204.207), MERCEDES-BENZ C-Class T-modell (S204) C 220 CDI (204.208), MERCEDES-BENZ C-Class T-modell (S204) C 320 CDI (204.222), MERCEDES-BENZ C-Class T-modell (S204) C 320 CDI 4-matic (204.289), MERCEDES-BENZ C-Class T-modell (S204) C 180 Kompressor (204.245), (+ 7)

The steps may slightly vary depending on the car design.

Please note that this tutorial was created based on the replacement procedure for this car part on a car with a similar design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ C-Class Saloon (W204) C 220 CDI (204.008)

REPLACEMENT: SHOCK ABSORBERS – MERCEDES-BENZ C-CLASS T-MODELL (S204). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Ceramic grease
- Copper grease
- Torque wrench
- Drive socket # 10
- Drive socket # 13
- Drive socket # 16
- Torx bit E14
- Torx bit T40
- HEX bit no.H5
- 17-mm strut nut socket
- Shock absorber socket # DD6
- Wheel impact socket #17
- Ratchet wrench
- Clip removal tool
- Long nose pliers
- Vice
- Hydraulic transmission jack
- Wheel chock

Buy tools

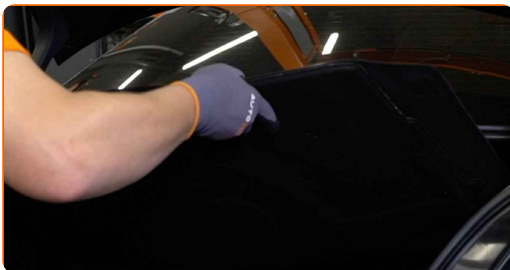
Replacement: shock absorbers – MERCEDES-BENZ C-Class T-modell (S204).
Tip from AUTODOC:

- 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 – MERCEDES-BENZ C-Class T-modell (S204) – should be done with the engine switched off.

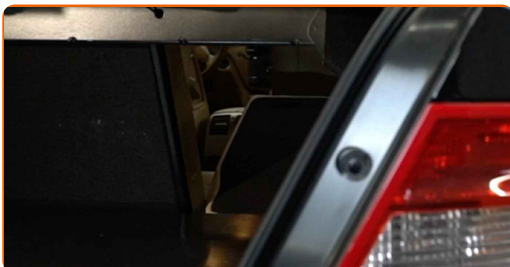
CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the boot lid.

2 Remove the boot floor panel.



3 Fold down the backrests of the rear seats.



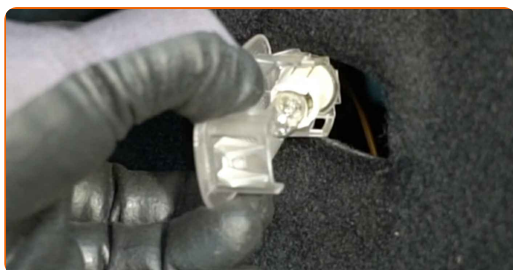
4 Remove the clips of the boot side lining. Use a clip removal tool.



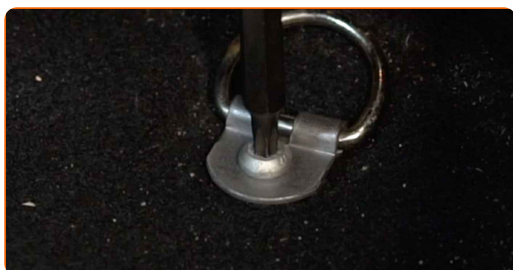
5 Remove the cover of the boot side lining.



6 Remove the boot side light. Use a clip removal tool.



7 Unscrew the fastener and remove the boot lashing eye. Use Torx T40. Use a ratchet wrench.



8

Unscrew the fasteners of the boot sill panel. Use a drive socket #10. Use a ratchet wrench.



9

Detach the boot sill panel.

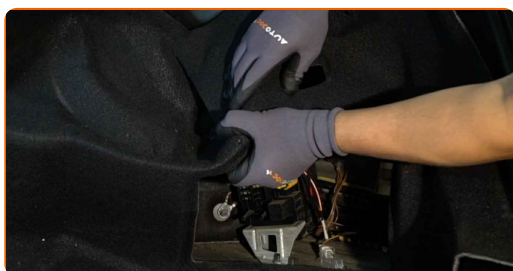


AUTODOC recommends:

- Replacement: shock absorbers – MERCEDES-BENZ C-Class T-modell (S204). Do not use excessive force when removing the part as this may damage it.

10

Detach the boot side lining.



AUTODOC recommends:

- Do not apply excessive force when removing the part. Otherwise you may damage it.

11

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



12

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

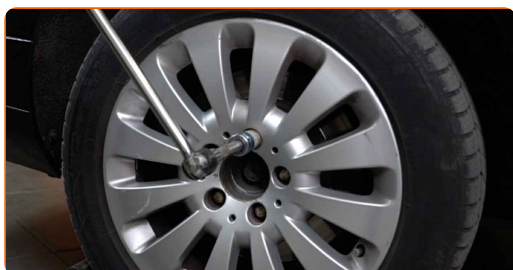


13

Secure the wheels with chocks.

14

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



15

Raise the car.



AUTODOC recommends:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

16

Unscrew the wheel bolts.

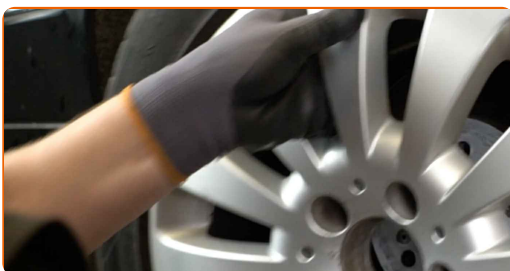


AUTODOC recommends:

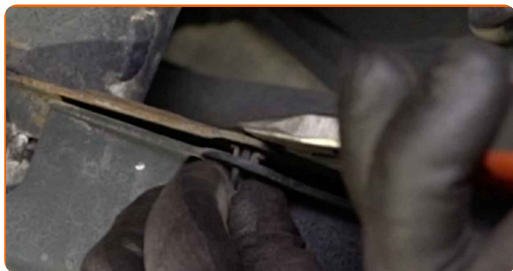
- Important! Hold the wheel while unscrewing the fastening bolts. MERCEDES-BENZ C-Class T-modell (S204)

17

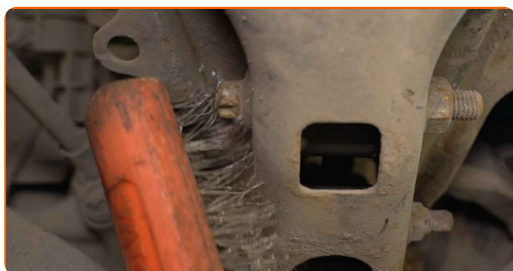
Remove the wheel.



18 Release the clips and remove the suspension arm plastic cover. Use long nose pliers.



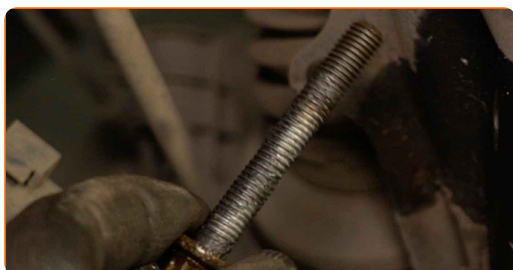
19 Clean the lower shock absorber fastener. Use a wire brush. Use WD-40 spray.



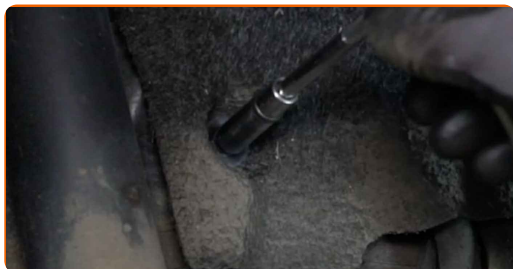
20 Unscrew the lower fastener of the shock absorber. Use Torx E14. Use a drive socket #16. Use a ratchet wrench.



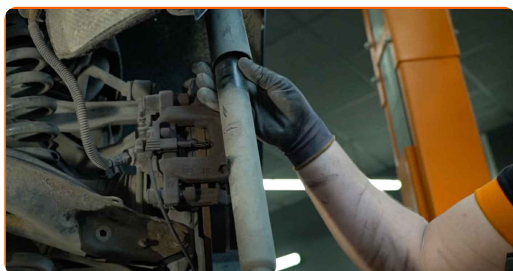
21 Remove the fastening bolt.



22 Unscrew the locker fasteners. Use a drive socket #10. Use a ratchet wrench.



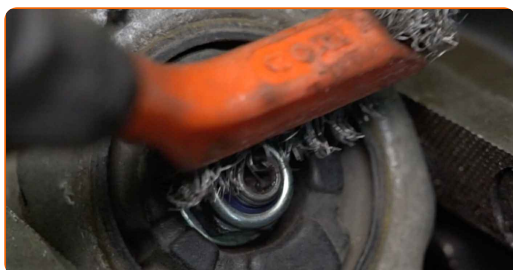
23 Remove the shock absorber.



24 Grip the shock absorber in a vice.



25 Clean the shock absorber rod fastener. Use a wire brush. Use WD-40 spray.



26

Remove the fastener of the shock absorber piston rod. Use a 14.5-mm strut nut socket. Use HEX No.H5. Use a ratchet wrench.



27

Remove the shock absorber mount, boot and bump stop.



AUTODOC recommends:

- Replacement: shock absorbers – MERCEDES-BENZ C-Class T-modell (S204). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

28

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



AUTODOC recommends:

- Before installing a new shock absorber you should pump it manually 3-5 times.

- 29** Tighten the shock absorber rod nut. Use a 14.5-mm strut nut socket. Use a shock absorber socket #DD6. Use a torque wrench. Tighten it to 28 nm torque.



- 30** Treat the shock absorber rod fastener. Use copper grease.



- 31** Release the vice and take out the shock absorber.



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

- 33** Place the shock absorber in the wheel arch and fasten it.



AUTODOC recommends:

- MERCEDES-BENZ C-Class T-modell (S204) – To avoid injury, hold the shock absorber while screwing in the fastening bolts.

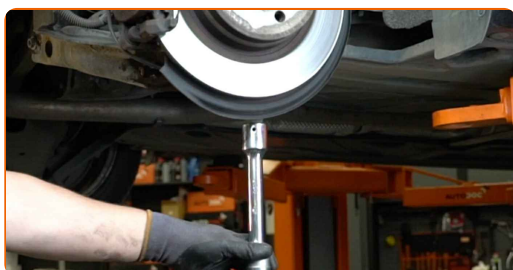
34

Install the fastening bolt.



35

Support the rear knuckle. Use a hydraulic transmission jack.



AUTODOC recommends:

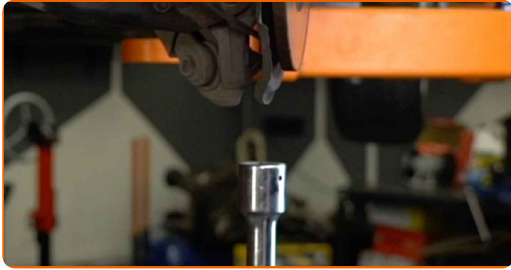
- For tightening the fasteners correctly, you have to jack up the suspension components to their working position.

36

Tighten the lower fastener of the shock absorber. Use Torx E14. Use a drive socket #16. Use a torque wrench. Tighten it to 55 Nm torque. +60°



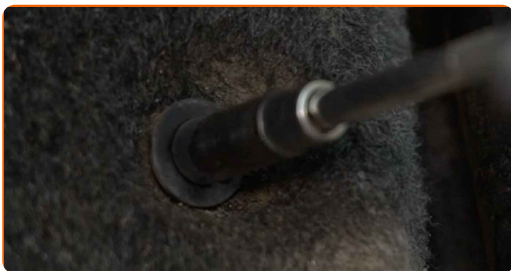
37 Remove the support from under the rear knuckle.



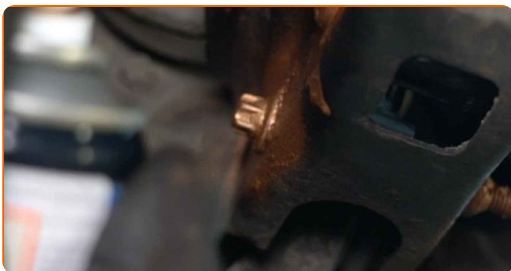
AUTODOC recommends:

- Replacement: shock absorbers – MERCEDES-BENZ C-Class T-modell (S204). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

38 Screw in the locker fasteners. Use a drive socket #10. Use a ratchet wrench.



39 Clean the lower shock absorber fastener. Use copper grease.



40 Clean the wheel rim mounting seat. Use a wire brush.



41 Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



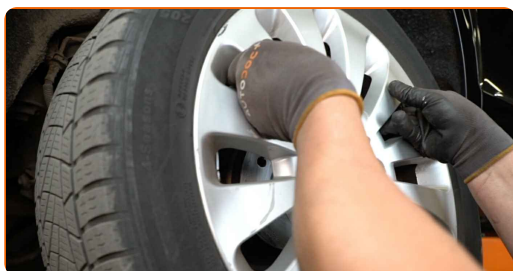
42 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- After applying the spray, wait a few minutes.

43 Install the wheel.

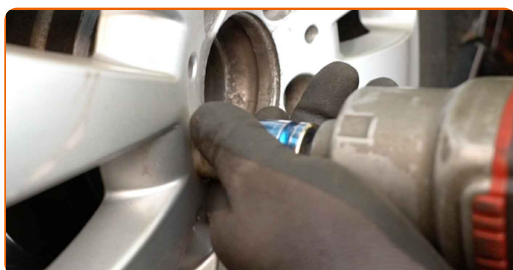


AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ C-Class T-modell (S204)

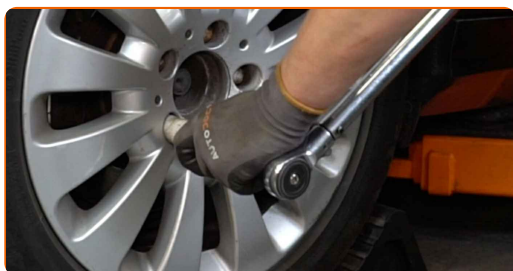
44

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



45

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 130 Nm torque.



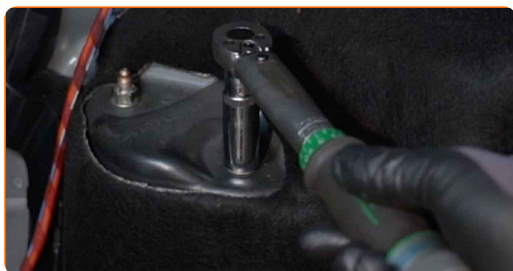
46

Remove the jacks and chocks.

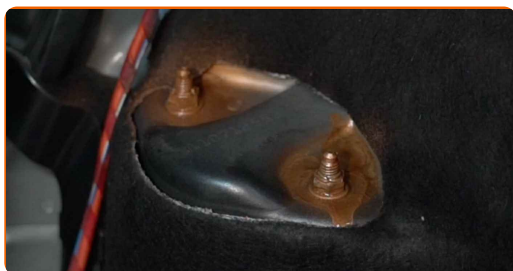


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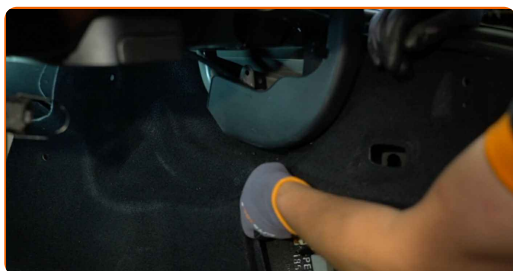
Tighten the upper shock absorber fasteners. Use a drive socket #13. Use a torque wrench. Tighten it to 45 Nm torque.



48 Treat the shock absorber fasteners. Use copper grease.



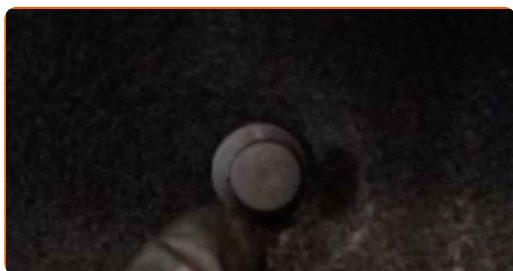
49 Attach the side lining of the boot.



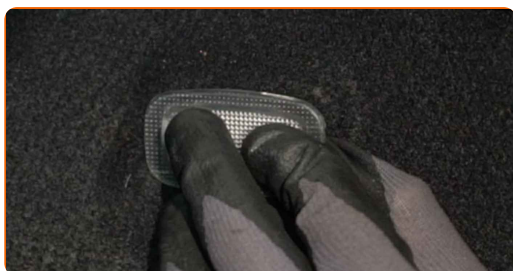
AUTODOC recommends:

- When installing, do not use excessive force to avoid damage to the part.

50 Install the clips of the boot side lining.



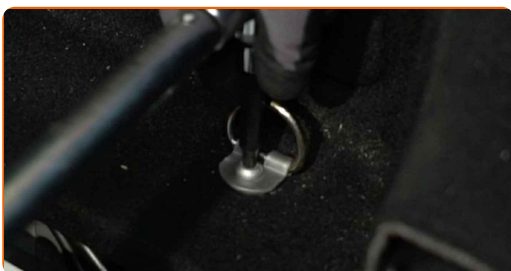
51 Install the boot side light.



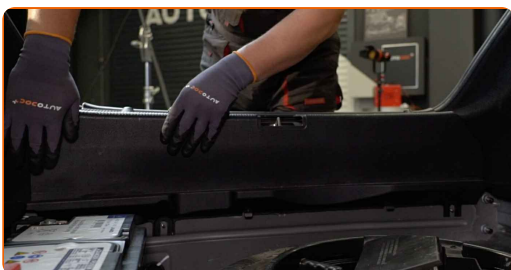
52 Install the cover of the boot side lining.



53 Install and tighten the boot lashing eye. Use Torx T40. Use a torque wrench. Tighten it to 15 Nm torque.



54 Attach the boot sill panel.

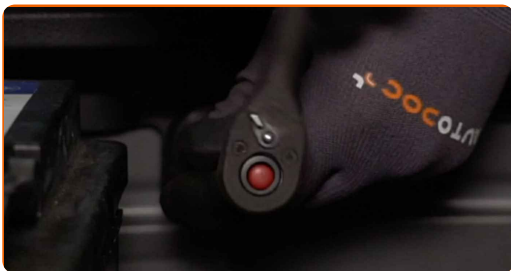


AUTODOC recommends:

- Replacement: shock absorbers – MERCEDES-BENZ C-Class T-modell (S204). To avoid damaging the part during installation, do not use excessive force.

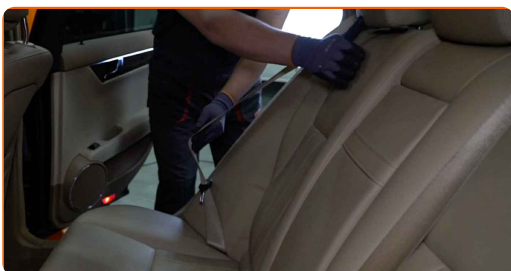
55

Screw in the fasteners of the boot sill panel. Use a drive socket #10. Use a ratchet wrench.



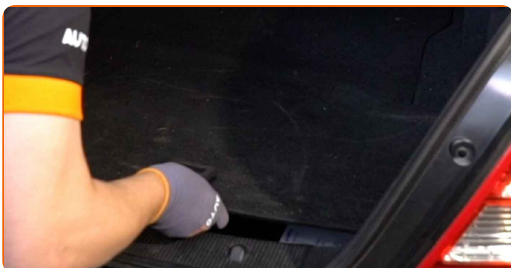
56

Return the seat to its original position.



57

Install the boot floor panel.



58

Close the lid of the luggage compartment.

WELL DONE! 

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