



How to change front  
shock absorbers on  
**MERCEDES-BENZ E-  
Class T-modell (S210)** –  
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 E-Class T-modell (S210) E 200 T (210.235), MERCEDES-BENZ E-Class T-modell (S210) E 230 T (210.237), MERCEDES-BENZ E-Class T-modell (S210) E 420 T (210.272), MERCEDES-BENZ E-Class T-modell (S210) E 290 T Turbo-D (210.217), MERCEDES-BENZ E-Class T-modell (S210) E 250 T D (210.210), MERCEDES-BENZ E-Class T-modell (S210) E 270 T CDI, MERCEDES-BENZ E-Class T-modell (S210) E 320 T (210.265), MERCEDES-BENZ E-Class T-modell (S210) E 300 T Turbo-D (210.225), MERCEDES-BENZ E-Class T-modell (S210) E 250 T Turbo-D (210.215), MERCEDES-BENZ E-Class T-modell (S210) E 280 T (210.263), MERCEDES-BENZ E-Class T-modell (S210) E 240 T (210.261), MERCEDES-BENZ E-Class T-modell (S210) E 430 T (210.270), MERCEDES-BENZ E-Class T-modell (S210) E 200 T Kompressor (210.245), MERCEDES-BENZ E-Class T-modell (S210) E 220 T CDI (210.206), MERCEDES-BENZ E-Class T-modell (S210) E 320 T CDI (210.226), (+ 3)

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 E-Class Saloon (W210) E 270 CDI (210.016)

**REPLACEMENT: SHOCK ABSORBERS – MERCEDES-BENZ E-CLASS T-MODELL (S210). LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Ceramic grease
- Torque wrench
- Combination spanner #17
- Drive socket # 17
- Shock absorber socket # 16
- Shock absorber socket #DD6
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**Buy tools**

Replacement: shock absorbers – MERCEDES-BENZ E-Class T-modell (S210).  
Tip from AUTODOC experts:

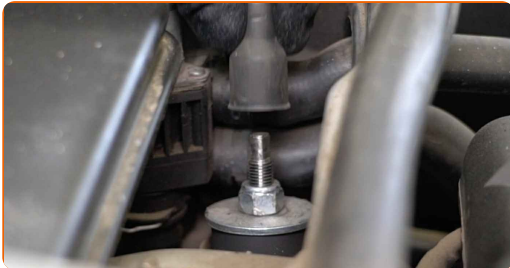
- Replace both front shock absorbers at a time.
- The replacement procedure is identical for the left and right shock absorbers of the front suspension.
- All work should be done with the engine stopped.

**REPLACEMENT: SHOCK ABSORBERS – MERCEDES-BENZ E-CLASS T-MODELL (S210). USE THE FOLLOWING PROCEDURE:**

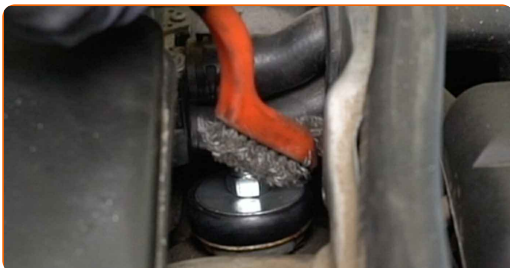
**1** Open the bonnet.

**2** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

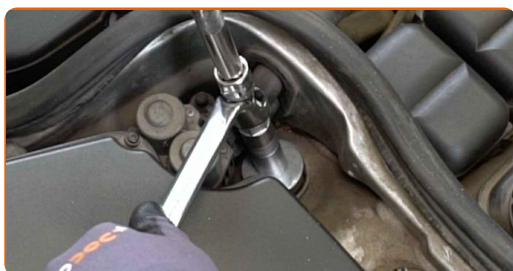
**3** Remove the shock absorber mount cap.



**4** Clean the upper fastener of the shock absorber. Use a wire brush. Use WD-40 spray.



- 5 Loosen the upper fastener of the shock absorber. Use a special drive socket to remove the shock absorber # 16. Use a shock absorber socket #DD6. Use a ratchet wrench.



- 6 Secure the wheels with chocks.

- 7 Loosen the wheel bolts. Use wheel impact socket #17. Use a tap wrench.

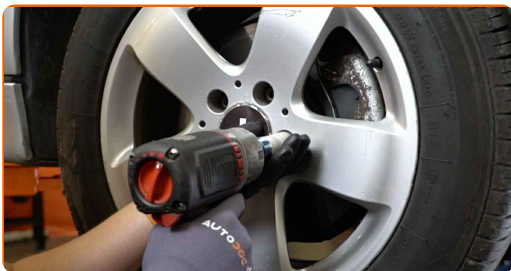


- 8 Raise the car.

Replacement: shock absorbers – MERCEDES-BENZ E-Class T-modell (S210).  
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.

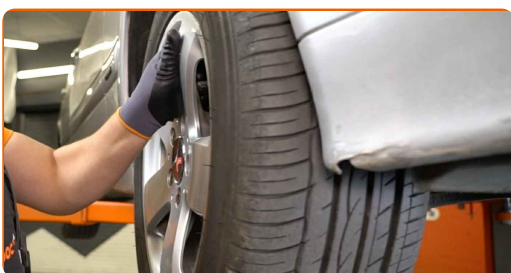
**9** Unscrew the wheel bolts.



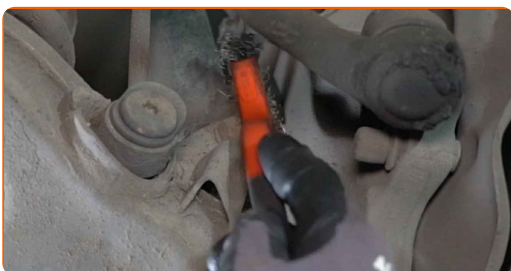
**AUTODOC recommends:**

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

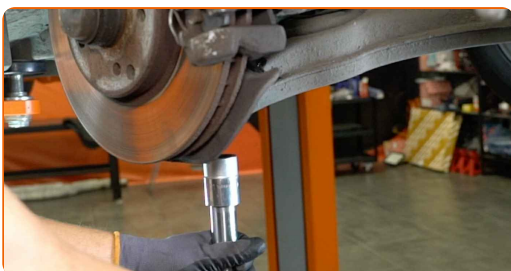
**10** Remove the wheel.



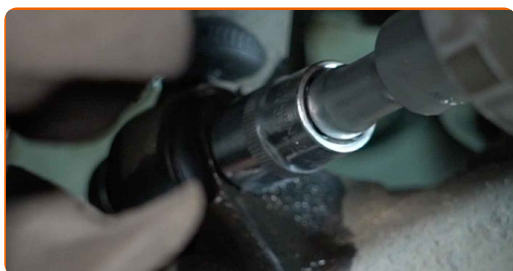
**11** Clean the lower shock absorber fastener. Use a wire brush. Use WD-40 spray.



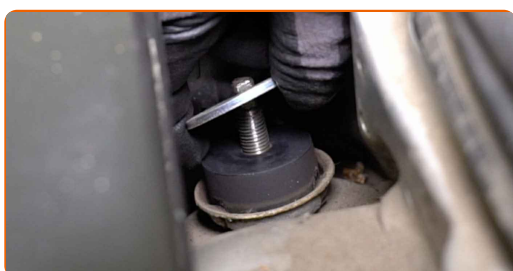
**12** Support the control arm. Use a hydraulic transmission jack.



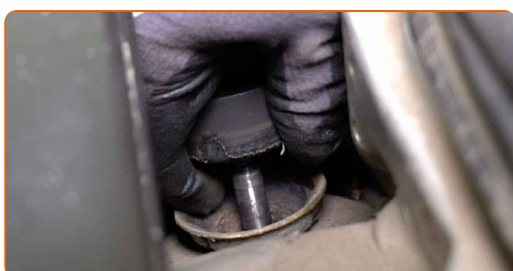
- 13** Unscrew the lower fasteners of the shock absorber. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



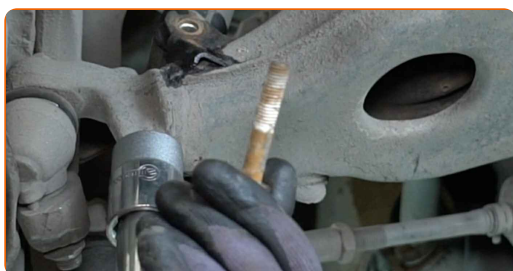
- 14** Unscrew the upper fastener of the shock absorber.



- 15** Remove the elements of the shock absorber upper mount.



- 16** Remove the fastening bolt.



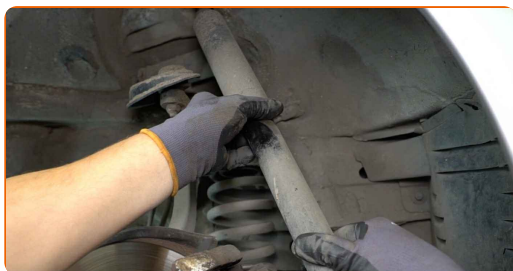
- 17** Lower the hydraulic transmission jack by 10-15 cm.



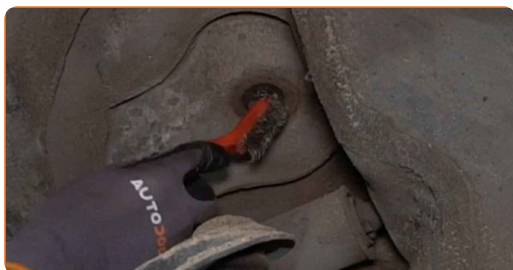
Replacement: shock absorbers – MERCEDES-BENZ E-Class T-modell (S210).  
Tip from AUTODOC experts:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

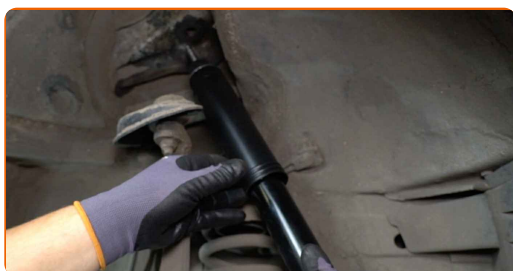
**18** Remove the shock absorber.



**19** Clean the shock absorber mounting seats. Use a wire brush.



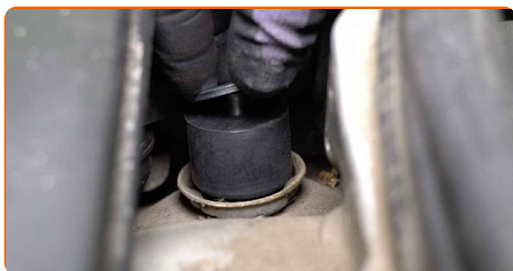
**20** Place the shock absorber in the wheel arch and secure it.



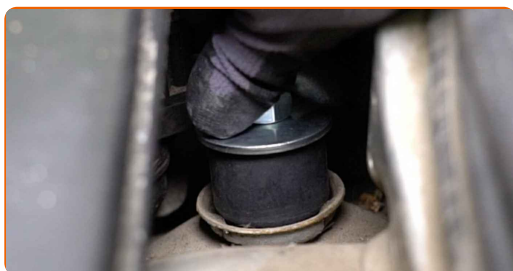
Replacement: shock absorbers – MERCEDES-BENZ E-Class T-modell (S210).  
Professionals recommend:

- Before installing a new shock absorber you should pump it 3–5 times by hand.

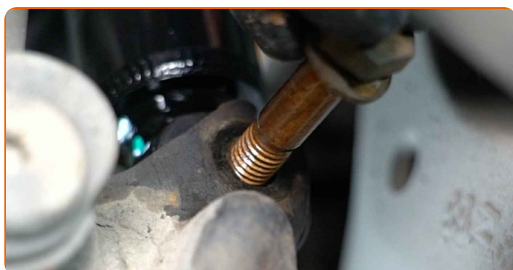
**21** Install the elements of the shock absorber upper mount.



**22** Screw the upper fastener of the shock absorber.



**23** Install the fastening bolt.



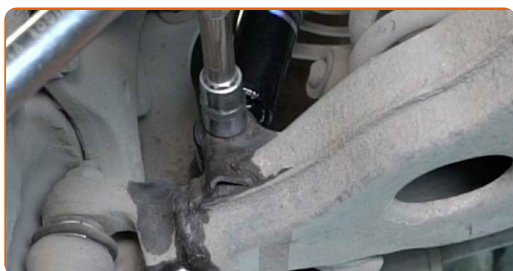
**24** Support the control arm. Use a hydraulic transmission jack.



**AUTODOC recommends:**

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

- 25** Tighten the lower fastener of the shock absorber. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 65 Nm torque.



Replacement: shock absorbers – MERCEDES-BENZ E-Class T-modell (S210).  
Tip from AUTODOC:

- Important! Be sure to use new fasteners.

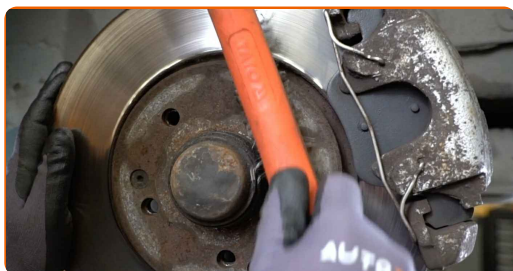
- 26** Remove the support from under the control arm.



AUTODOC recommends:

- MERCEDES-BENZ E-Class T-modell (S210) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

**27** Clean the wheel rim mounting seat. Use a wire brush.



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



**29** Clean the brake disk surface. Use a brake cleaner.



**30** Install the wheel.

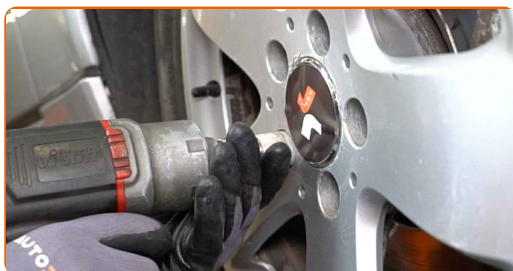


**AUTODOC recommends:**

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

31

Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.

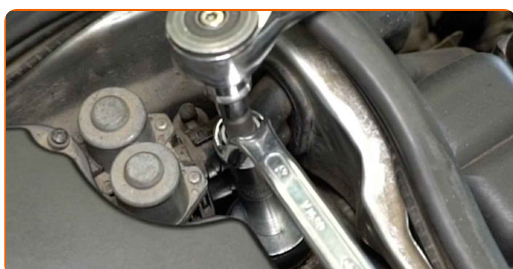


32

Lower the car.

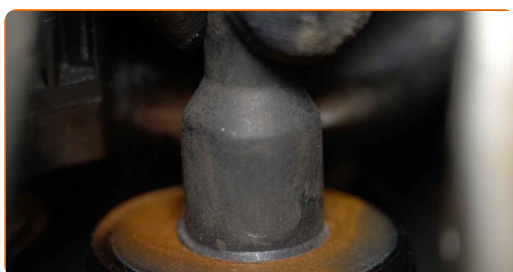
33

Tighten the top fastener of the shock absorber. Use a special drive socket to remove the shock absorber # 16. Use a shock absorber socket #DD6. Use a torque wrench. Tighten it to 30 Nm torque.



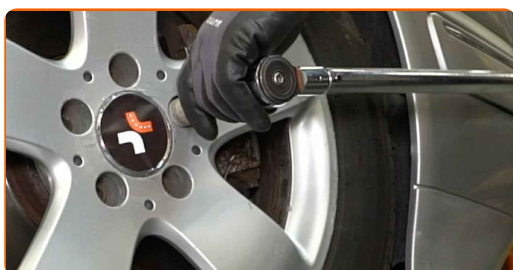
34

Install the shock absorber mount cap.



35

Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



36

Remove the jacks and chocks.



37

Remove the fender protection cover.

38

Close the bonnet.

**WELL DONE!** 

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