



How to change front
shock absorbers on
Mercedes W210 –
replacement guide

VIDEO TUTORIAL



 Important!

This replacement procedure can be used for:

MERCEDES-BENZ E-Class Saloon (W210) E 220 D (210.004), MERCEDES-BENZ E-Class Saloon (W210) E 250 D (210.010), MERCEDES-BENZ E-Class Saloon (W210) E 200 (210.035), MERCEDES-BENZ E-Class Saloon (W210) E 300 D (210.020), MERCEDES-BENZ E-Class Saloon (W210) E 230 (210.037), MERCEDES-BENZ E-Class Saloon (W210) E 320 (210.055), MERCEDES-BENZ E-Class Saloon (W210) E 290 Turbo-D (210.017), MERCEDES-BENZ E-Class Saloon (W210) E 280 (210.053), MERCEDES-BENZ E-Class Saloon (W210) E 420 (210.072), MERCEDES-BENZ E-Class Saloon (W210) E 50 AMG (210.072), 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), (+ 27)

The steps may slightly vary depending on the car design.

REPLACEMENT: SHOCK ABSORBERS – MERCEDES W210. 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 W210. 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 W210. USE THE FOLLOWING PROCEDURE:

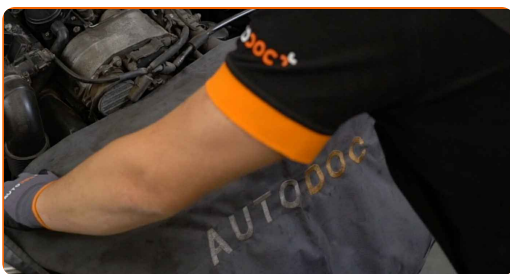
1

Open the bonnet.



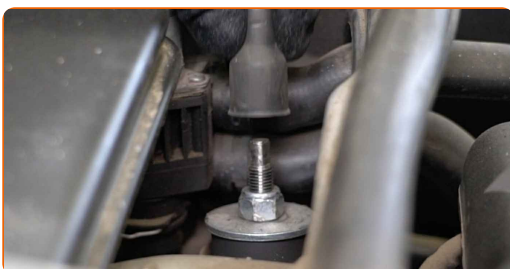
2

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



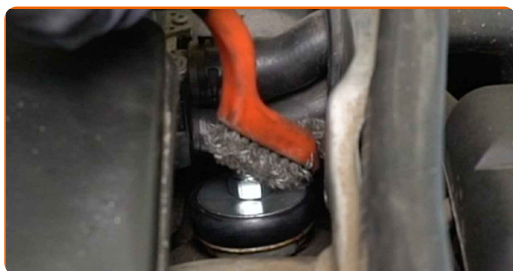
3

Remove the shock absorber mount cap.



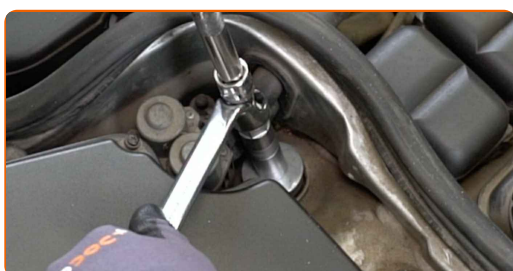
4

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 W210. 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.

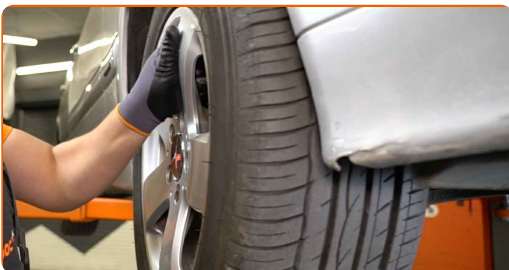


AUTODOC recommends:

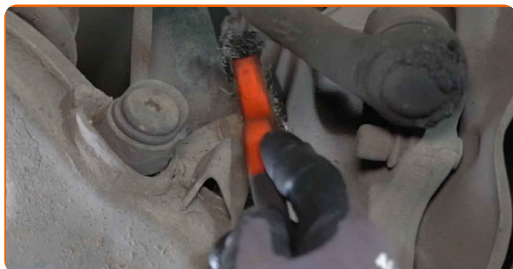
- To avoid injury, hold up the wheel when unscrewing the bolts.

10

Remove the wheel.



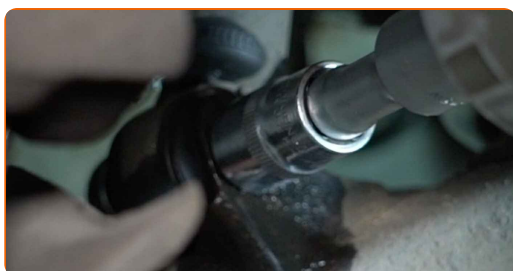
11 Clean the lower shock absorber fastener. Use a wire brush. Use WD-40 spray.



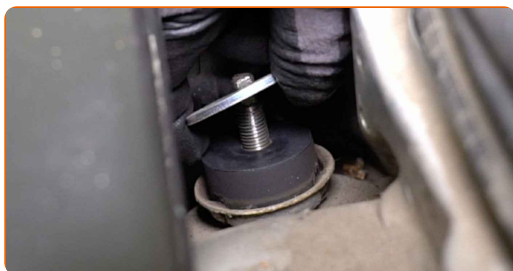
12 Support the control arm. Use a hydraulic transmission jack.



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



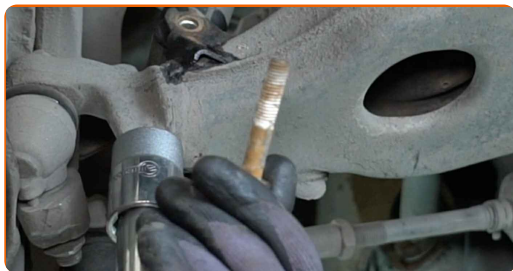
14 Unscrew the upper fastener of the shock absorber.



15 Remove the elements of the shock absorber upper mount.



16 Remove the fastening bolt.

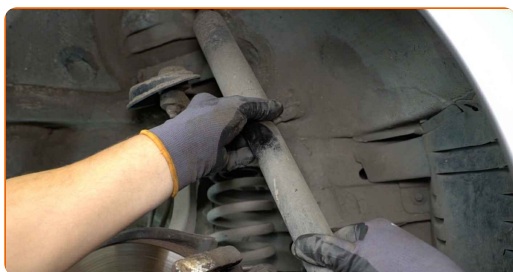


17 Lower the hydraulic transmission jack by 10-15 cm.

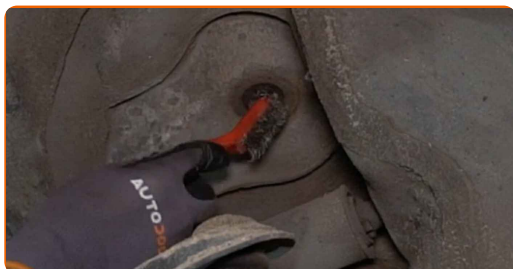
Replacement: shock absorbers – Mercedes W210. Tip from AUTODOC experts:

- 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.



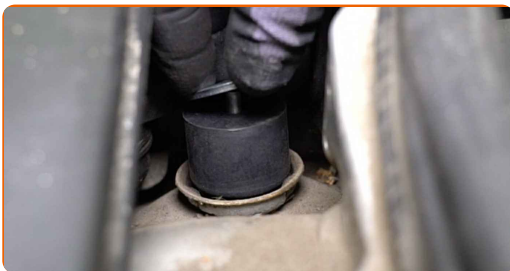
20 Place the shock absorber in the wheel arch and secure it.



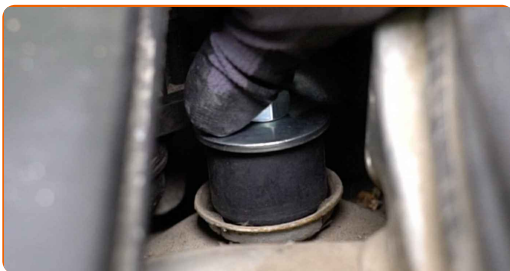
Replacement: shock absorbers – Mercedes W210. Professionals recommend:

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

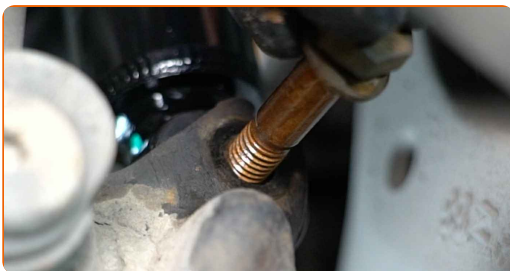
21 Install the elements of the shock absorber upper mount.



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.

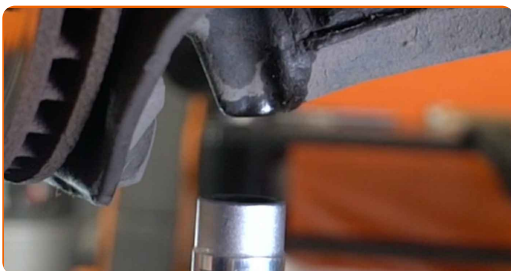


Replacement: shock absorbers – Mercedes W210. Tip from AUTODOC:

- Important! Be sure to use new fasteners.

26

Remove the support from under the control arm.



AUTODOC recommends:

- Mercedes W210 – 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.



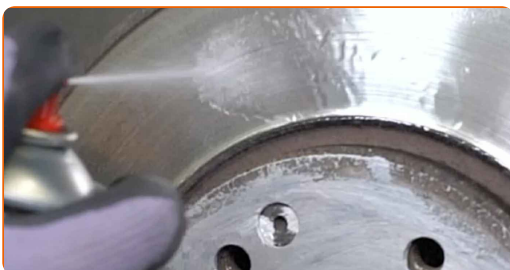
28

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.

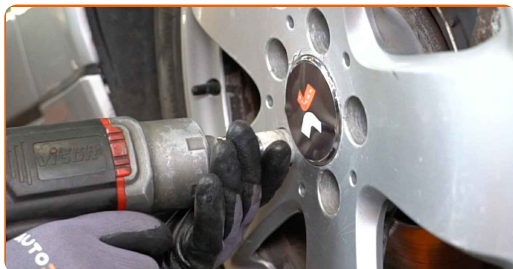


AUTODOC recommends:

- 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.



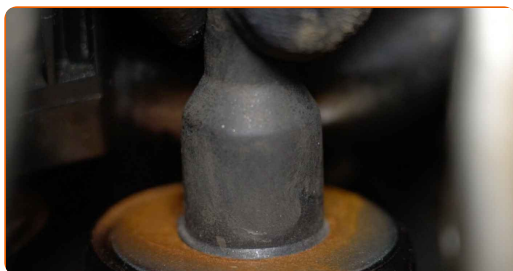
33

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.



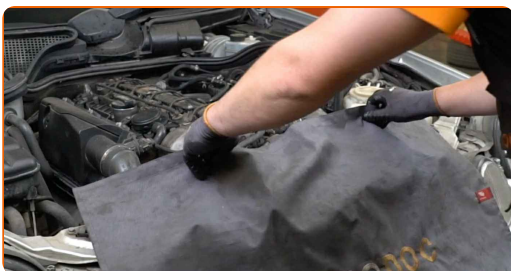
35 Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



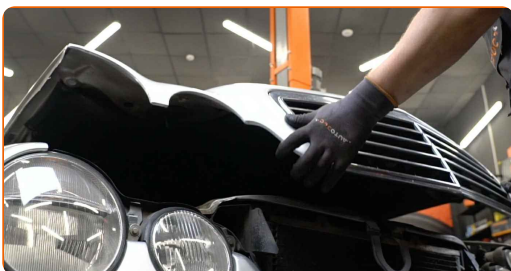
36 Remove the jacks and chocks.



37 Remove the fender protection cover.



38 Close the bonnet.



WELL DONE! 

VIEW MORE TUTORIALS

AUTODOC – TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING



+ AUTODOC

GET IT ON  **Google Play**

 **Download on the App Store**

Download

A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR

BUY SPARE PARTS FOR MERCEDES

SHOCK ABSORBERS: A WIDE SELECTION

CHOOSE CAR PARTS FOR MERCEDES W210

SHOCK ABSORBERS FOR MERCEDES: BUY NOW

SHOCK ABSORBERS FOR MERCEDES W210: THE BEST DEALS & OFFERS

DISCLAIMER:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.

© Copyright 2022 – All the contents of this website, in particular texts, photographs and graphics, are protected by copyright. All rights, including reproduction, publication, editing and translation rights, are reserved by AUTODOC GmbH.