



How to change rear coil
springs on **Mercedes**
W203 – replacement
guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:

MERCEDES-BENZ C-Class Saloon (W203) C 180 (203.035), MERCEDES-BENZ C-Class Saloon (W203) C 200 Kompressor (203.045), MERCEDES-BENZ C-Class Saloon (W203) C 320 (203.064), MERCEDES-BENZ C-Class Saloon (W203) C 200 CDI (203.004), MERCEDES-BENZ C-Class Saloon (W203) C 270 CDI (203.016), MERCEDES-BENZ C-Class Saloon (W203) C 220 CDI (203.006), MERCEDES-BENZ C-Class Saloon (W203) C 180 Kompressor (203.046), MERCEDES-BENZ C-Class Saloon (W203) C 200 Kompressor (203.042), MERCEDES-BENZ C-Class Saloon (W203) C 240 4-matic (203.081), MERCEDES-BENZ C-Class Saloon (W203) C 320 4-matic (203.084), MERCEDES-BENZ C-Class Saloon (W203) C 200 CDI (203.007), MERCEDES-BENZ C-Class Saloon (W203) C 200 CGI Kompressor (203.043), MERCEDES-BENZ C-Class Saloon (W203) C 230 Kompressor (203.040), MERCEDES-BENZ C-Class Saloon (W203) C 220 CDI (203.008), MERCEDES-BENZ C-Class Saloon (W203) C 320 CDI (203.020), (+ 5)

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – MERCEDES W203.
TOOLS YOU NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #16
- Combination spanner #19
- Combination spanner #21
- Combination spanner #22
- Drive socket # 10
- Drive socket # 16
- Drive socket # 19
- Drive socket # 21
- Drive socket # 22
- Wheel impact socket #17
- Ratchet wrench
- Crow bar
- Tap wrench
- Strut spring compressor
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: coil springs – Mercedes W203. AUTODOC experts recommend:

- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- All work should be done with the engine stopped.

REPLACEMENT: COIL SPRINGS – MERCEDES W203. USE THE FOLLOWING PROCEDURE:

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.



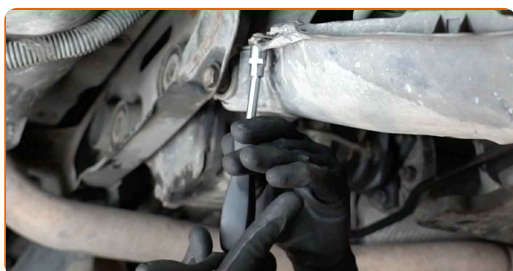
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
Mercedes W203

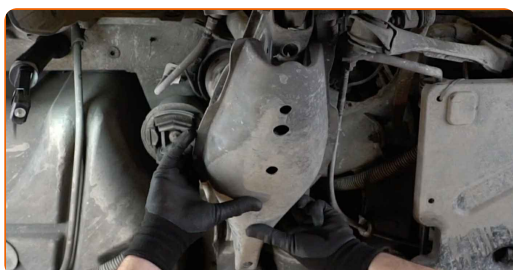
5 Remove the wheel.



6 Unscrew the fasteners of the control arm plastic cover. Use a drive socket #10. Use a ratchet wrench.



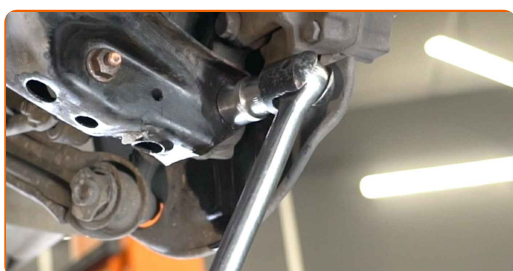
7 Remove the control arm plastic cover.



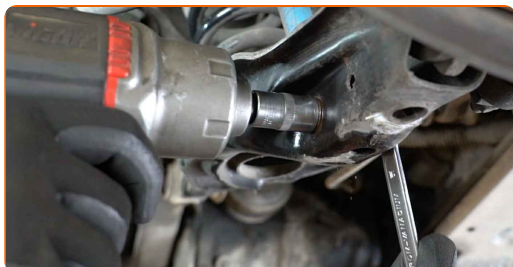
8 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



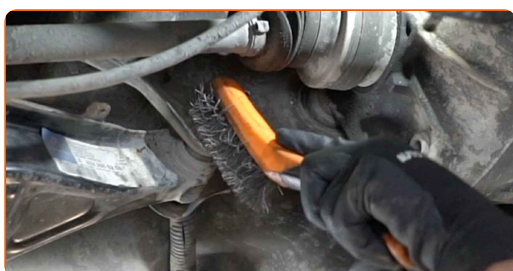
9 Unscrew the fastener connecting the control arm to the rear knuckle. Use a combination spanner #21. Use a combination spanner #22. Use a drive socket #21. Use a drive socket #22. Use a ratchet wrench.



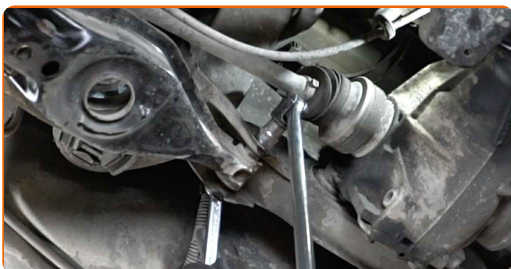
10 Unscrew the lower fastener of the shock absorber. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



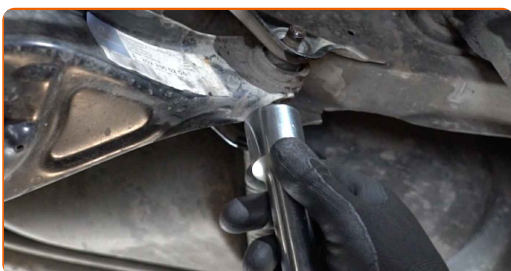
11 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



- 12** Unscrew the fastener connecting the control arm to the subframe. Use a combination spanner #19. Use a drive socket #19. Use a tap wrench.



- 13** Support the rear control arm. Use a hydraulic transmission jack.



- 14** Install the coil spring compressor on the coil spring.



Replacement: coil springs – Mercedes W203. Professionals recommend:

- Use adapters and jaws of the appropriate size.
- The spring coils should be securely fixed with the coil spring compressor.
- Use high quality coil spring compressors.

15

Compress the spring by turning the lead screw of the coil spring compressor.



Replacement: coil springs – Mercedes W203. Tip from AUTODOC experts:

- Compress the coil spring compressor until there is enough room to remove the spring. Do not compress the tool to the full: the spring coils must not touch each other.
- Be careful. The compressed spring is powerful and in case of disrupting ties, straightening, it can cause injury.

16

Remove the fastening bolt. Use a drive socket #19. Use a ratchet wrench.



17

Remove the support from under the rear control arm.

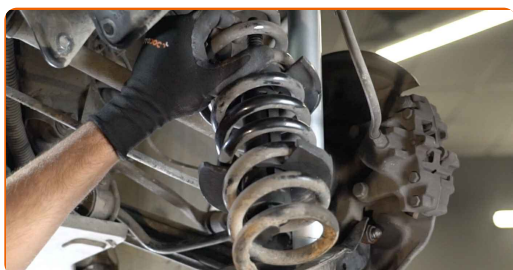


AUTODOC recommends:

- Mercedes W203 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

18

Remove the coil spring together with the coil spring compressor.

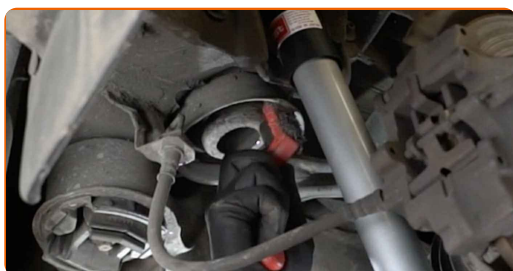


AUTODOC recommends:

- While the spring is compressed, do not do any operations on it.

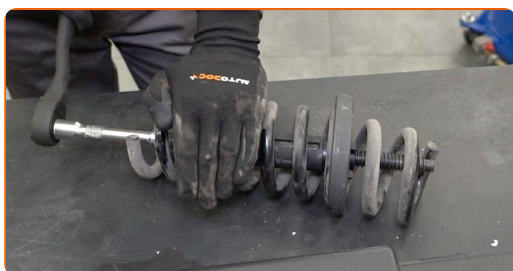
19

Clean the coil spring mounting seats. Use a wire brush. Use WD-40 spray.

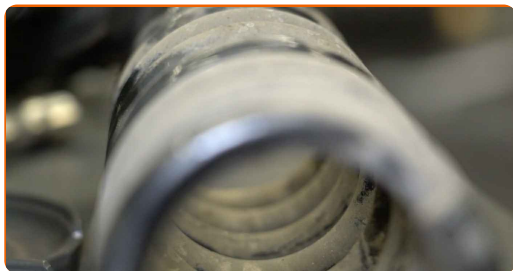


20

Decompress the spring.



21 Take out the spring.



22 Install a new coil spring on the coil spring compressor.



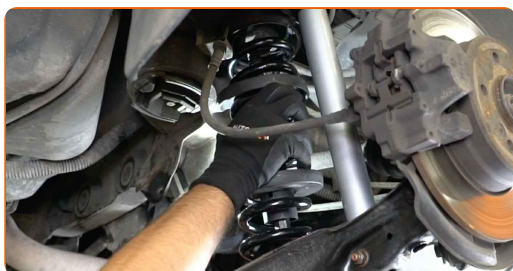
Replacement: coil springs – Mercedes W203. Tip:

- Use adapters and jaws of the appropriate size.

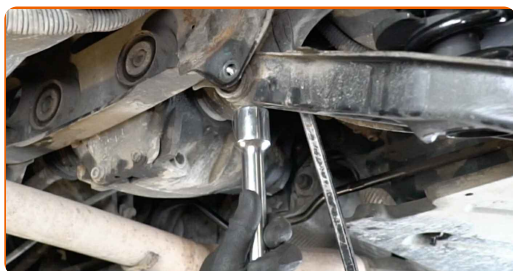
23 Compress the spring.



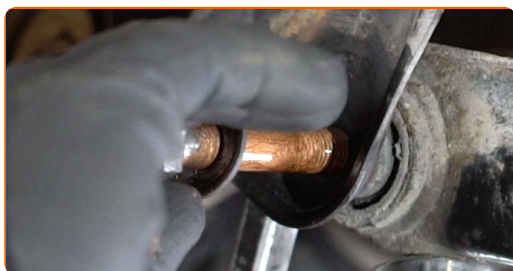
24 Install the coil spring together with the rubber mounts into the mounting seats.



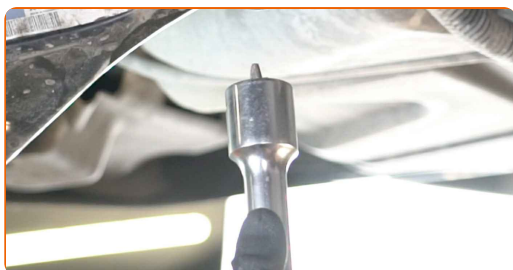
25 Support the rear control arm. Use a hydraulic transmission jack. Use a crowbar.



26 Install the fastening bolt. Use a drive socket #19. Use a ratchet wrench.



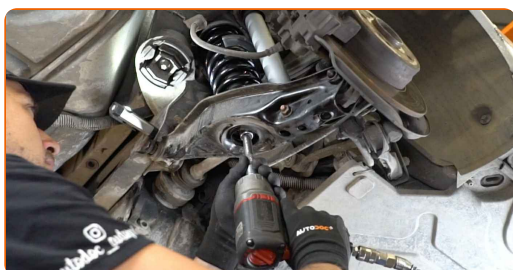
27 Remove the support from under the rear control arm.



AUTODOC recommends:

- Replacement: coil springs – Mercedes W203. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

28 Release the coil spring by turning the lead screw of the coil spring compressor.



Please note!

- Make sure that the coil spring is correctly positioned in its mounting seats.

29

Remove the coil spring compressor.



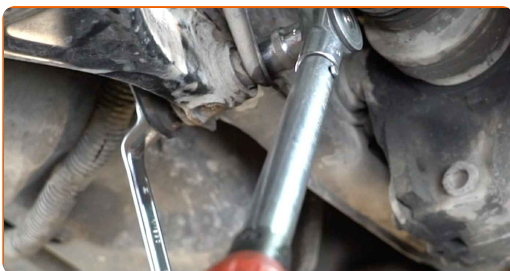
30

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



31

Tighten the fastener connecting the control arm to the subframe. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 70 Nm torque.

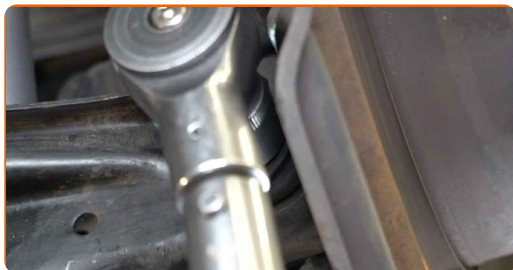


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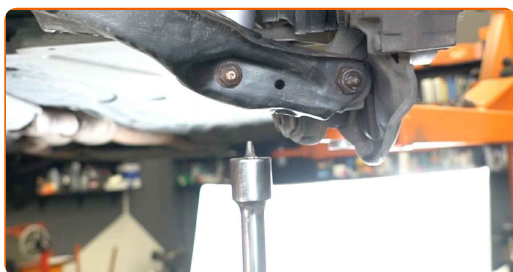
Tighten the lower fastener of the shock absorber. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 55 Nm torque.



- 33** Tighten the fastener connecting the control arm to the rear knuckle. Use a combination spanner #21. Use a combination spanner #22. Use a drive socket #21. Use a drive socket #22. Use a torque wrench. Tighten it to 120 Nm torque.



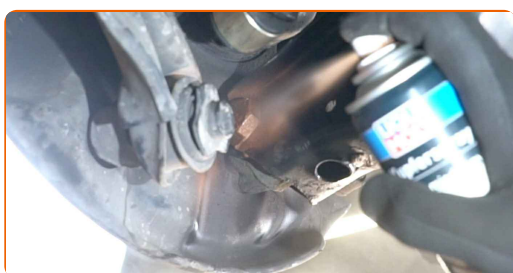
- 34** Remove the support from under the rear control arm.



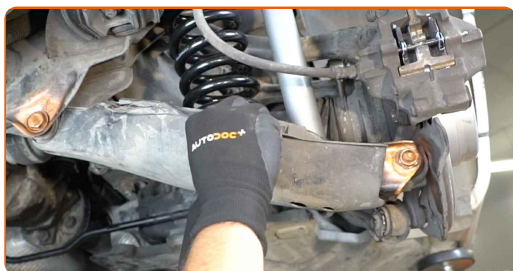
Replacement: coil springs – Mercedes W203. Tip:

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

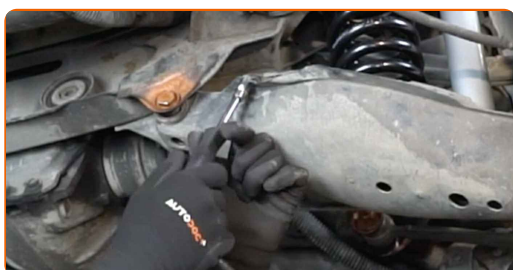
- 35** Treat the shock absorber fasteners. Treat all joints of the arm. Use copper grease.



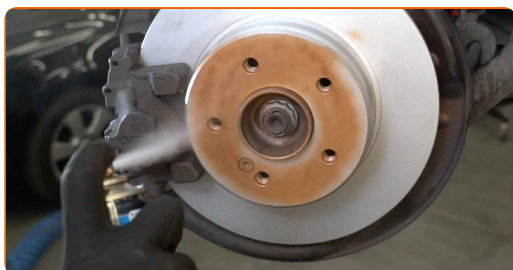
36 Install the control arm plastic cover.



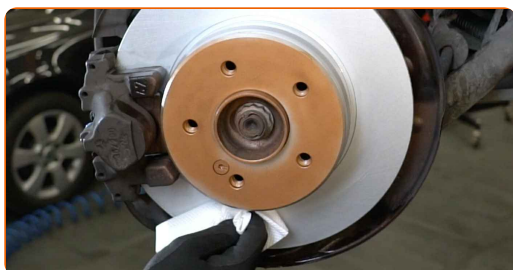
37 Screw the fasteners of the control arm plastic cover. Use a drive socket #10. Use a ratchet wrench.



38 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



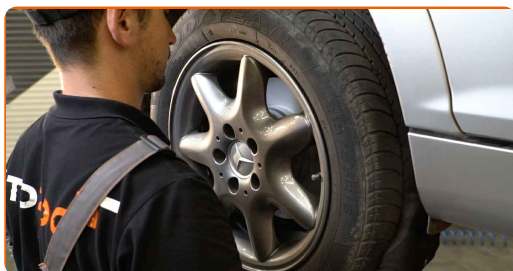
39 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: coil springs – Mercedes W203. After applying the spray, wait a few minutes.

40 Install the wheel.



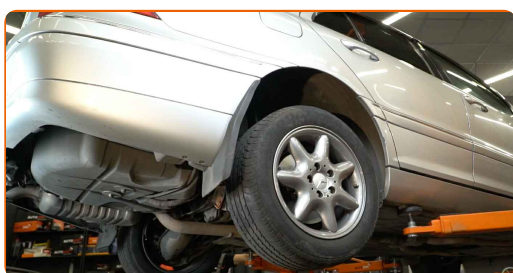
Replacement: coil springs – Mercedes W203. AUTODOC experts recommend:

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

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



42 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 110 Nm torque.



43

Remove the jacks and chocks.



WELL DONE! 

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