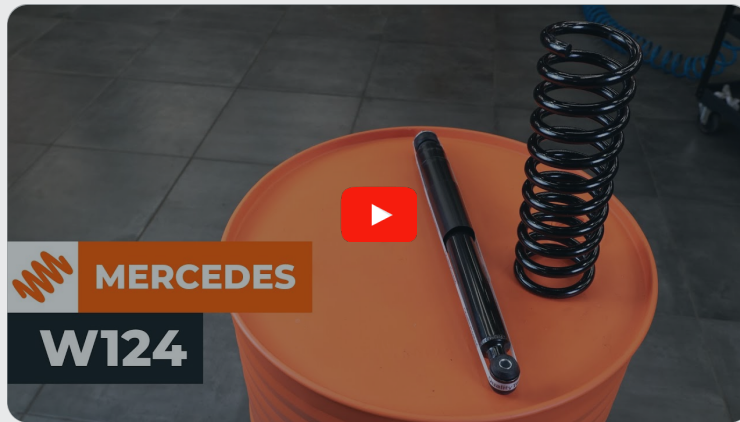




How to change rear coil  
springs on **Mercedes**  
**W124** – replacement  
guide

## VIDEO TUTORIAL



### Important!

This replacement procedure can be used for:

MERCEDES-BENZ Saloon (W124) 200 2.0 (124.020), MERCEDES-BENZ Saloon (W124) 200 E 2.0 (124.021), MERCEDES-BENZ Saloon (W124) 230 E 2.3 (124.023), MERCEDES-BENZ Saloon (W124) 260 E 2.6 (124.026), MERCEDES-BENZ Saloon (W124) 300 E 3.0, MERCEDES-BENZ Saloon (W124) 300 E 3.0 (124.030), MERCEDES-BENZ Saloon (W124) 200 D 2.0 (124.120), MERCEDES-BENZ Saloon (W124) 250 D 2.5 (124.125), MERCEDES-BENZ E-Class Saloon (W124) E 250 D (124.126, 124.129), MERCEDES-BENZ Saloon (W124) 250 2.5 Turbo diesel (124.128), MERCEDES-BENZ Saloon (W124) 300 D 3.0 (124.130), MERCEDES-BENZ E-Class Saloon (W124) E 300 D (124.131), MERCEDES-BENZ Saloon (W124) 300 3.0 Turbo diesel (124.133), MERCEDES-BENZ Saloon (W124) 200 2.0, MERCEDES-BENZ E-Class Saloon (W124) E 200 (124.019), (+ 23)

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – MERCEDES W124.  
LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- Combination spanner #13
- Combination spanner #17
- Combination spanner #19
- Combination spanner #22
- Drive socket # 13
- Drive socket # 17
- Drive socket # 19
- Drive socket # 22
- Shock absorber socket # 16
- Shock absorber socket #DD5.2
- Shock absorber socket #DD6
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Hammer
- Pin punch
- Crow bar
- Hydraulic transmission jack
- Wheel chock

**BUY TOOLS**

Replacement: coil springs – Mercedes W124. Tip from AUTODOC experts:

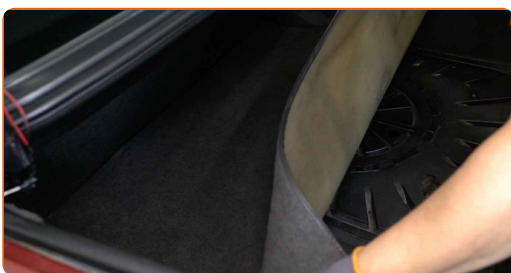
- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- Warning! Shut down the engine before starting any work – Mercedes W124.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the luggage compartment.



2 Remove the luggage compartment trim.



3

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



4

Loosen the upper fastener of the shock absorber. Use a combination spanner #17. Use a shock absorber socket #DD5.2. Use a ratchet wrench.



5

Secure the wheels with chocks.

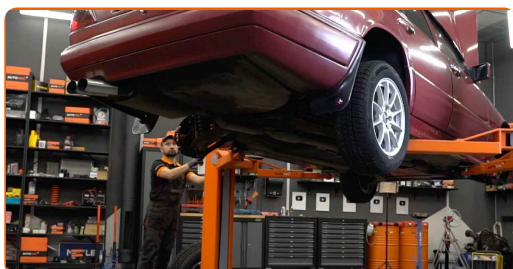
6

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



7

Raise the car.



Replacement: coil springs – Mercedes W124. Tip:

- 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.

8

Unscrew the wheel bolts.

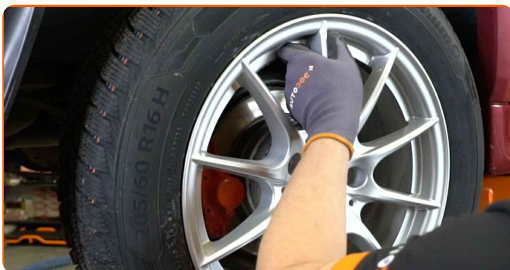


AUTODOC recommends:

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

9

Remove the wheel.

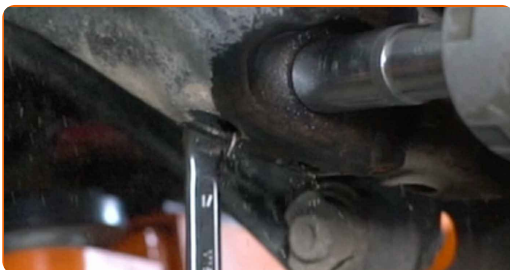


**10** Clean the lower shock absorber fastener. Use a wire brush. Use WD-40 spray.

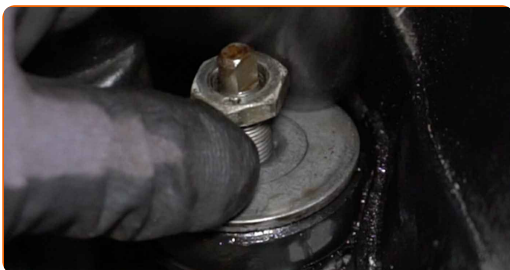


**11** Support the rear control arm. Use a hydraulic transmission jack.

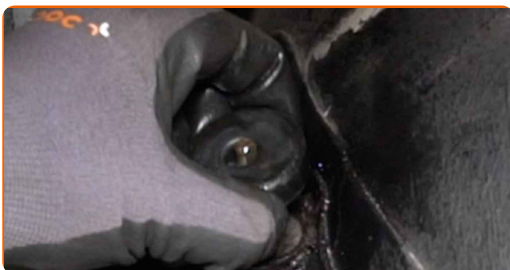
**12** Unscrew the lower fasteners of the shock absorber. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



**13** Unscrew the upper fastener of the shock absorber.

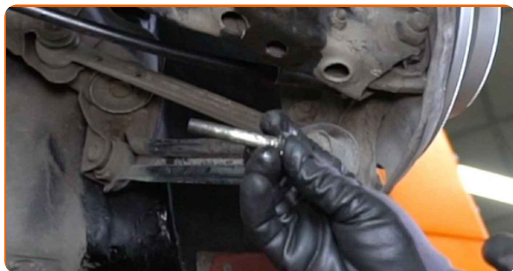


**14** Remove the elements of the shock absorber upper mount.





**15** Remove the fastening bolt.



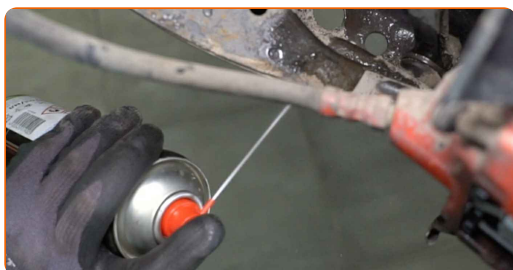
**16** Remove the shock absorber.



**17** Clean the shock absorber mounting seats. Use a wire brush. Use all-purpose cleaning spray.

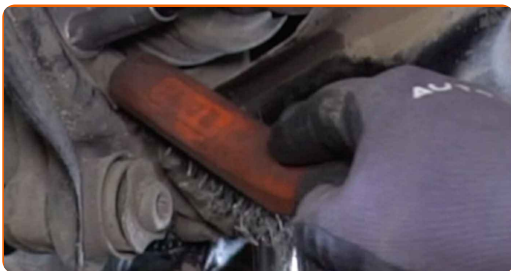


**18** Clean the control arm fasteners. Use a wire brush. Use WD-40 spray.

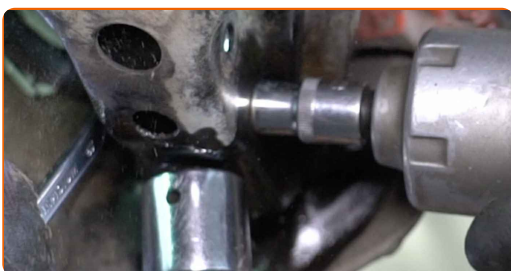




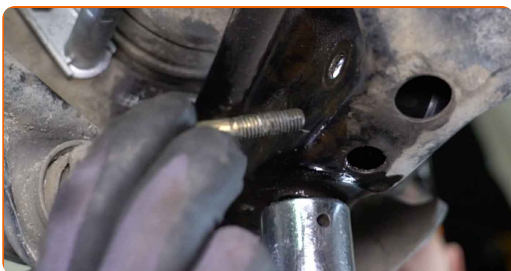
**19** Clean the fastener connecting the sway bar link to the suspension arm. Use a wire brush. Use WD-40 spray.



**20** Unscrew the fastener connecting the stabilizer link to the control arm. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.

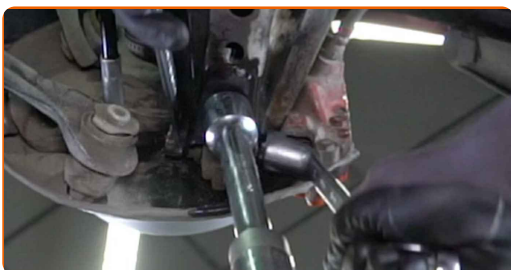


**21** Remove the fastening bolt.



**22** Detach the sway bar link from the suspension arm.

**23** Loosen the fastener that connects the control arm to the rear knuckle. Use a combination spanner #22. Use a drive socket #22. Use a ratchet wrench.



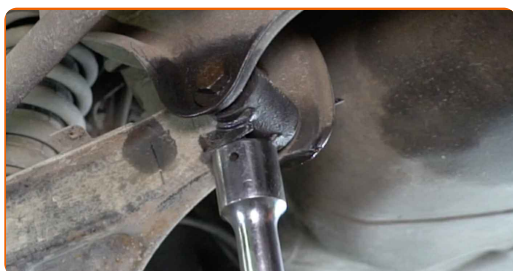
**24** Remove the support from under the rear control arm.



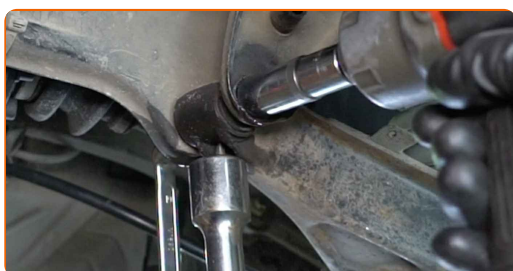
**AUTODOC recommends:**

- Replacement: coil springs – Mercedes W124. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**25** Support the rear control arm where it is attached to the subframe. Use a hydraulic transmission jack.

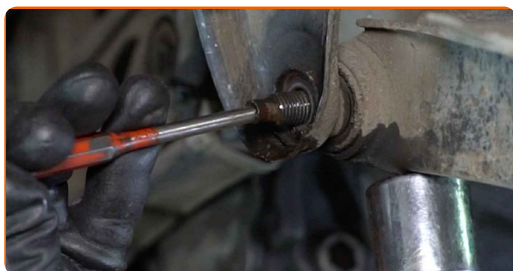


**26** Unscrew the fastener connecting the control arm to the subframe. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



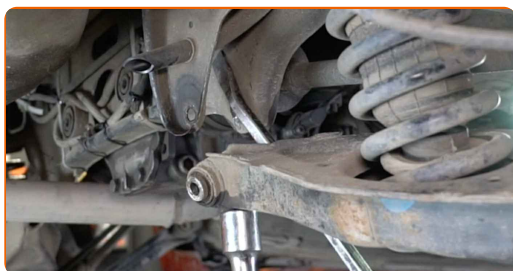
27

Remove the fastening bolt. Use a pin punch. Use a hammer.



28

Detach the control arm from the subframe and lower the hydraulic transmission jack. If necessary, use a crowbar.

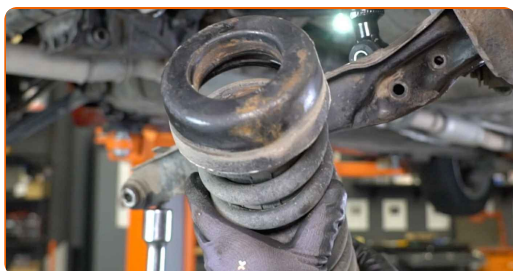


**AUTODOC recommends:**

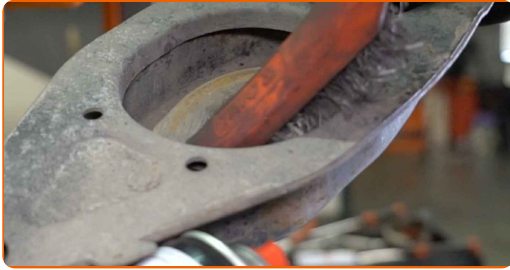
- As the control arm is spring loaded, the hydraulic transmission jack should be lowered strictly vertically to prevent the arm from slipping off abruptly and being displaced.

29

Remove the spring.



**30** Clean the coil spring mounting seats. Use a wire brush. Use all-purpose cleaning spray.



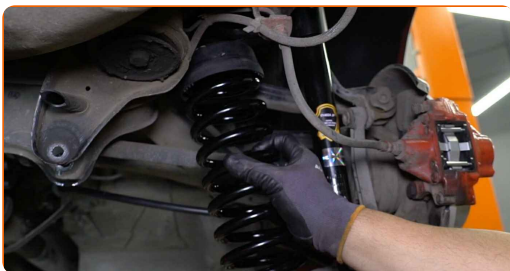
**31** Clean the suspension arm mounting seats. Use a wire brush. Use all-purpose cleaning spray.



**32** Install the rubber spacer on the new coil spring.



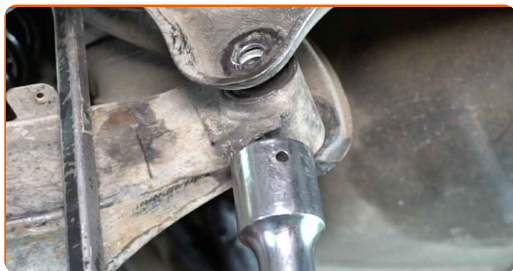
**33** Install the spring.



Replacement: coil springs – Mercedes W124. AUTODOC recommends:

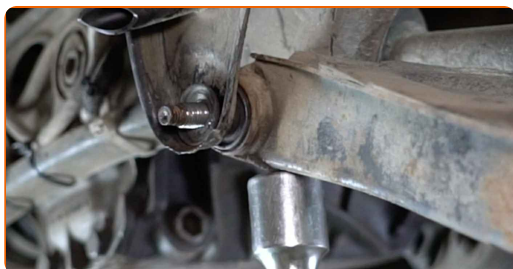
- Make sure that the coil spring is correctly positioned in its mounting seats.

**34** Install the control arm on the subframe. Use a hydraulic transmission jack. Use a crowbar.

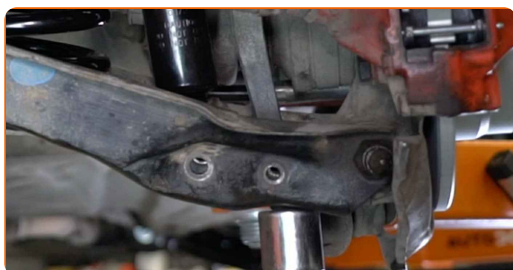


**35** Install the fastening bolt.

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



**37** Connect the sway bar link to the suspension arm.



**38** Install the fastening bolt.



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



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

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

**42** Install the fastening bolt.



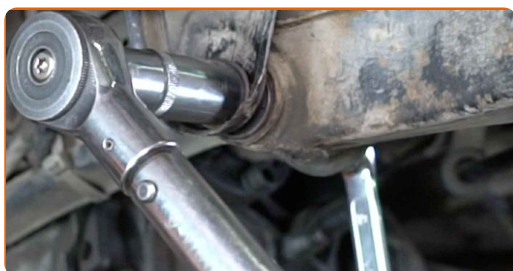
**43** For tightening the fasteners correctly, you have to jack up the suspension components to their working position.

**44** Tighten the fasteners connecting the control arm to the rear knuckle. Use a combination spanner #22. Use a drive socket #22. Use a torque wrench. Tighten it to 70 Nm torque.

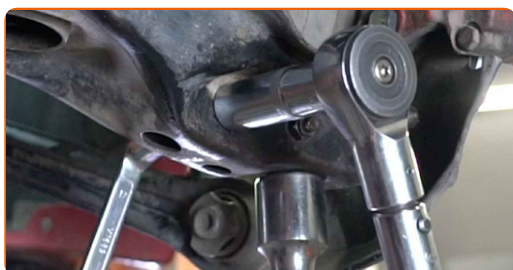




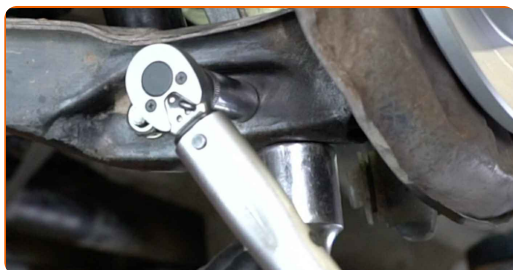
- 45** Tighten the fastener connecting the control arm to the subframe. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 70 Nm torque.



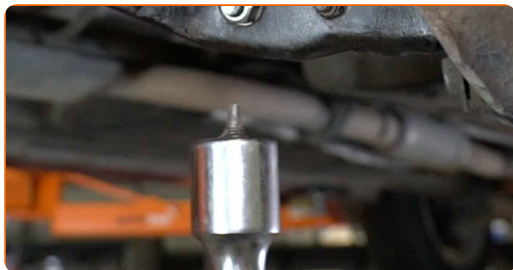
- 46** Tighten the lower fastener of the shock absorber. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 55 Nm torque.



- 47** Tighten the fastener connecting the sway bar link to the suspension arm. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 40 Nm torque.



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





Replacement: coil springs – Mercedes W124. AUTODOC experts recommend:

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

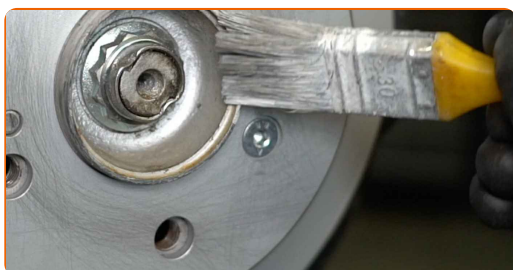
49

Clean the wheel rim mounting seat. Use a wire brush. Use all-purpose cleaning spray.



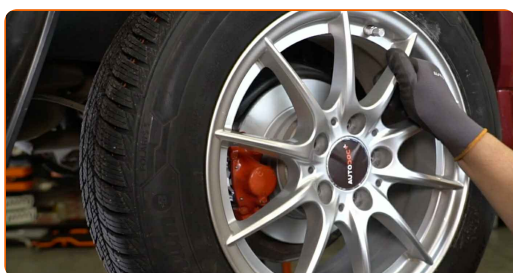
50

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



51

Install the wheel.

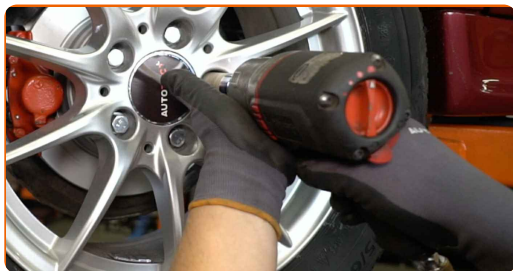


AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. Mercedes W124

52

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



53

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.



54

Remove the jacks and chocks.



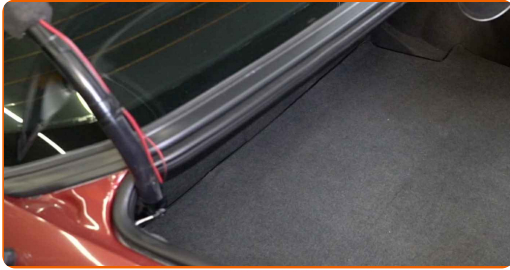
55

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.



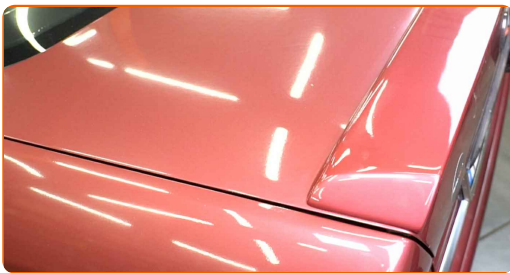
56

Install the luggage compartment trim.



57

Close the luggage compartment.



**WELL DONE!** 

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