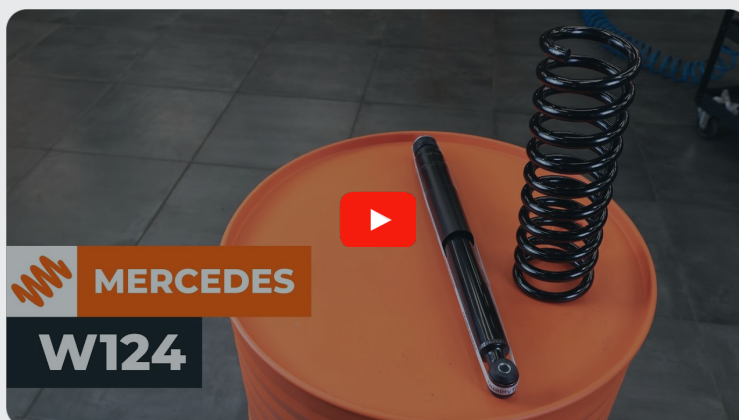




How to change rear coil  
springs on **MERCEDES-  
BENZ W124 Estate (S124)**  
– replacement guide

## 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 W124 Estate (S124) 300 TE-24 3.0 (124.091)

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ E-Class Saloon (W124) E 250 D (124.126, 124.129)

**REPLACEMENT: COIL SPRINGS – MERCEDES-BENZ W124 ESTATE (S124). 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-BENZ W124 Estate (S124). 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-BENZ W124 Estate (S124).

## 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-BENZ W124 Estate (S124). 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.

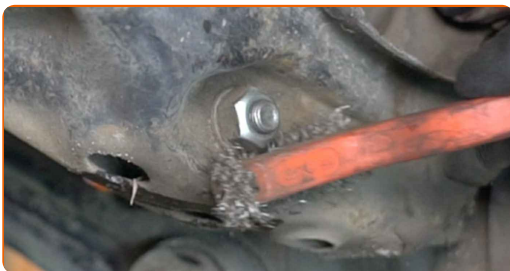
9

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.

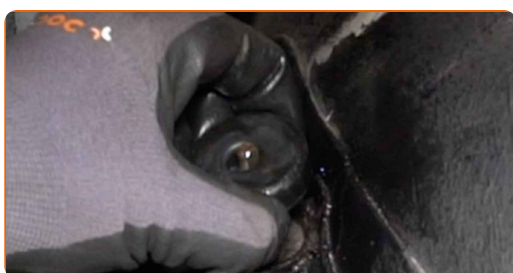
- 12** Unscrew the lower fasteners of the shock absorber. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



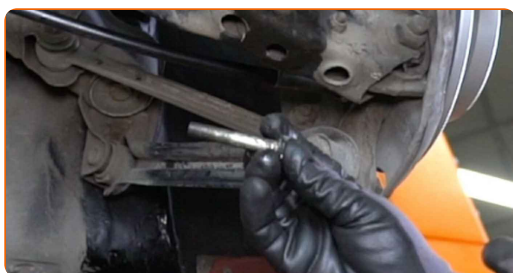
- 13** Unscrew the upper fastener of the shock absorber.



- 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.

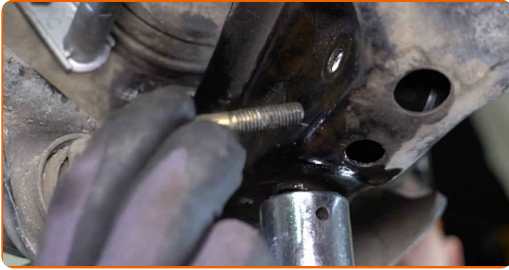


**20** Unscrew the fastener connecting the stabilizer link to the control arm. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.





**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.



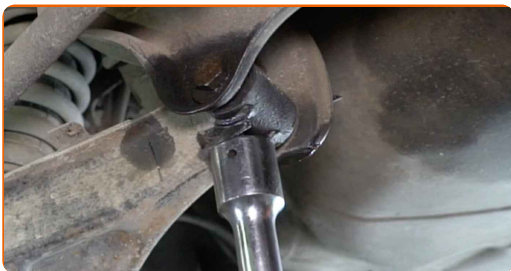
**24** Remove the support from under the rear control arm.



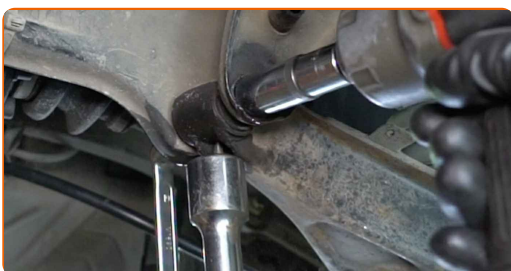
**AUTODOC recommends:**

- Replacement: coil springs – MERCEDES-BENZ W124 Estate (S124). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

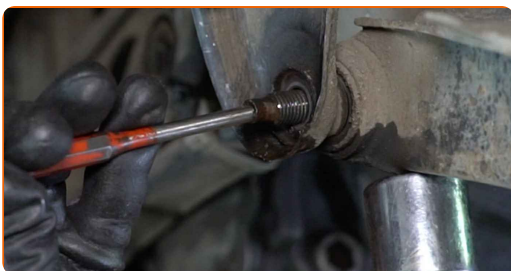
**25** Support the rear control arm where it is attached to the subframe. Use a hydraulic transmission jack.



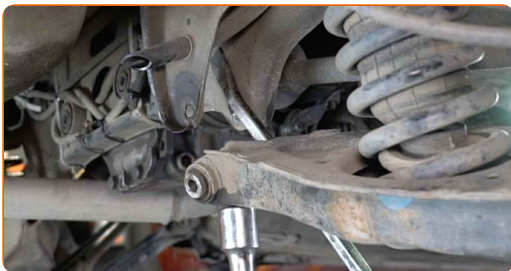
**26** Unscrew the fastener connecting the control arm to the subframe. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



**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.

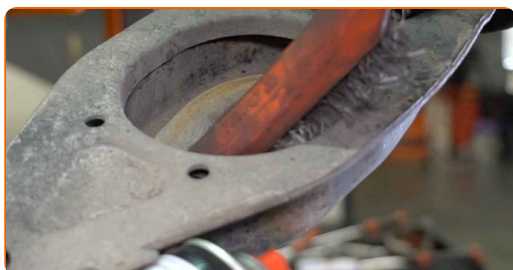
29

Remove the spring.



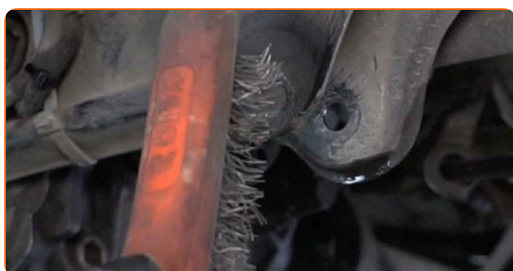
30

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



31

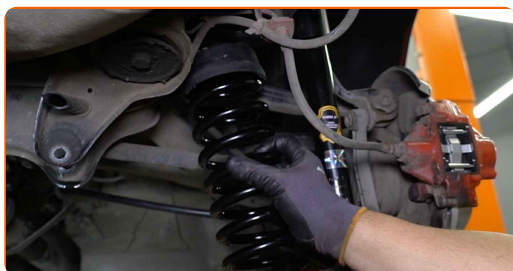
Clean the suspension arm mounting seats. Use a wire brush. Use all-purpose cleaning spray.



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



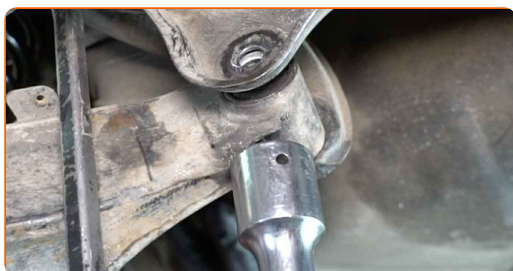
**33** Install the spring.



Replacement: coil springs – MERCEDES-BENZ W124 Estate (S124). AUTODOC recommends:

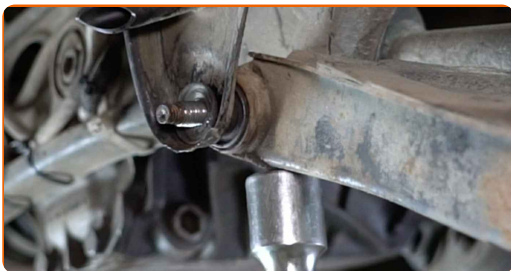
- Make sure that the coil spring is correctly positioned in its mounting seats.

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

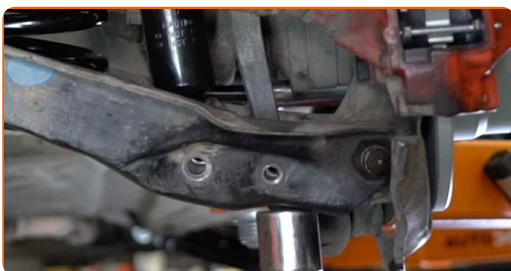


**35** Install the fastening bolt.

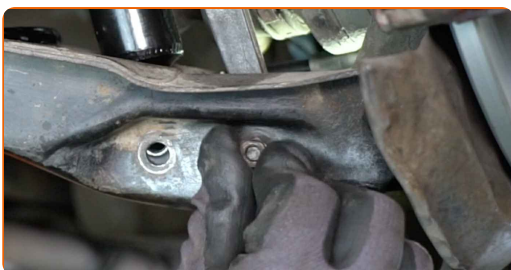
**36** Support the rear control arm. Use a hydraulic transmission jack.



**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.

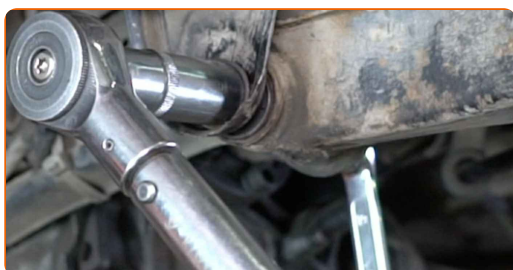


**43** For tightening the fasteners correctly, you have to jack up the suspension components to their working position.

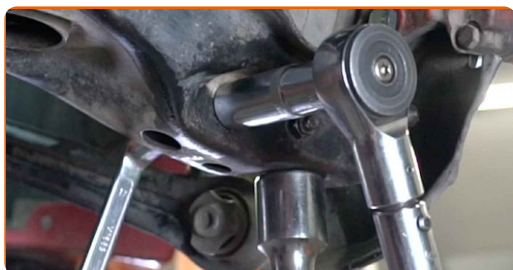
**44** Tighten the fasteners connecting the control arm to the rear knuckle. Use a combination spanner #22. Use a drive socket #22. Use a torque wrench. Tighten it to 70 Nm torque.



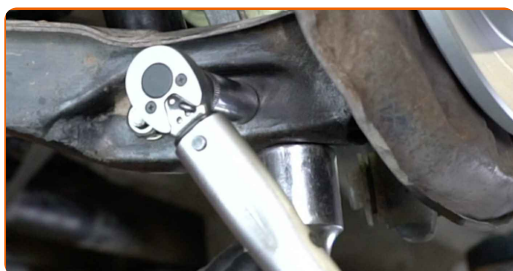
**45** Tighten the fastener connecting the control arm to the subframe. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 70 Nm torque.



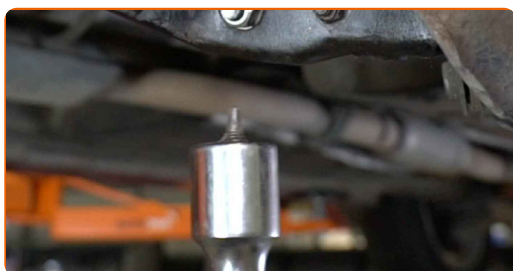
**46** Tighten the lower fastener of the shock absorber. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 55 Nm torque.



- 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-BENZ W124 Estate (S124). 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.

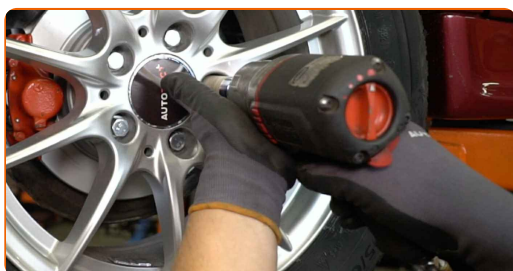


**AUTODOC recommends:**

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ W124 Estate (S124)

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.



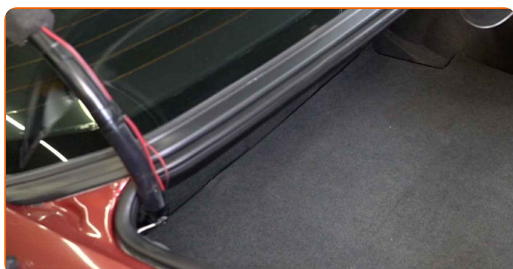
- 54** Remove the jacks and chocks.



- 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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