



How to change front 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 D 3.0 (124.190), MERCEDES-BENZ W124 Estate (S124) 300 TE-24 3.0 (124.091), MERCEDES-BENZ W124 Estate (S124) 300 3.0 Turbo diesel, MERCEDES-BENZ W124 Estate (S124) 300 3.0 Turbo diesel (124.193), MERCEDES-BENZ W124 Estate (S124) 320 TE 3.2 (124.092), MERCEDES-BENZ W124 Estate (S124) 280 TE 2.8 (124.088)

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). TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- Combination spanner #13
- Combination spanner #19
- Combination spanner #22
- Drive socket # 13
- Drive socket # 19
- HEX bit no.H6
- HEX bit no.H7
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Water pump pliers
- Crow bar
- Strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**Buy tools**

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

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

## REPLACEMENT: COIL SPRINGS – MERCEDES-BENZ W124 ESTATE (S124). TAKE THE FOLLOWING STEPS:

**1** Secure the wheels with chocks.

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



**3** Raise the car.

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.

**4** Unscrew the wheel bolts.



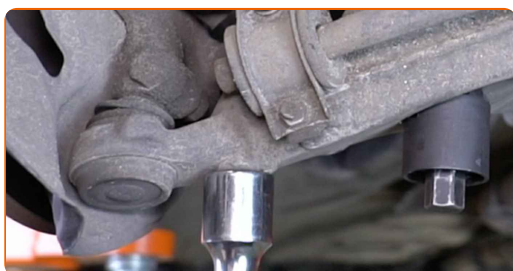
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
MERCEDES-BENZ W124 Estate (S124)

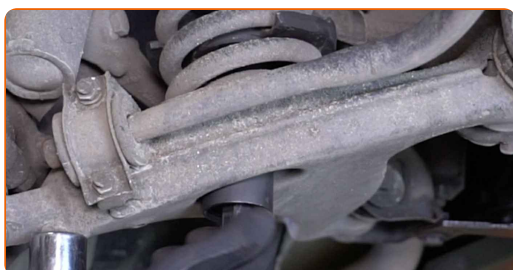
**5** Remove the wheel.



**6** Support the steering knuckle. Use a hydraulic transmission jack.



**7** Install the coil spring compressor on the coil spring.

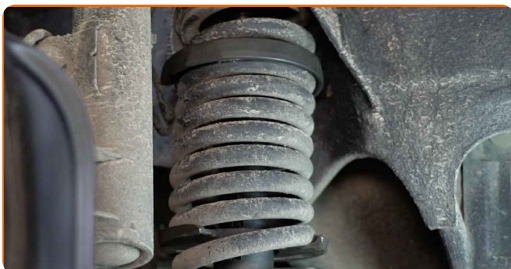


AUTODOC recommends:

- 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.

8

Compress the spring.



Replacement: coil springs – MERCEDES-BENZ W124 Estate (S124). Tip from AUTODOC experts:

- Be careful. The compressed spring is powerful and can cause injury if it comes loose.

9

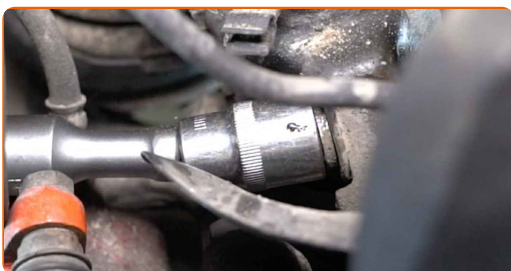
Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



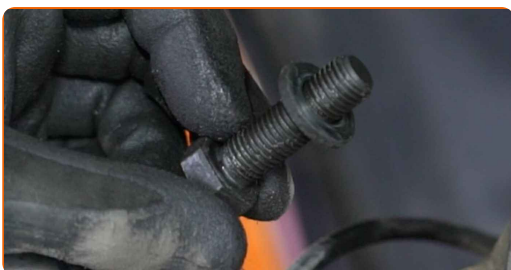
**10** Disconnect the wiring from the strut.



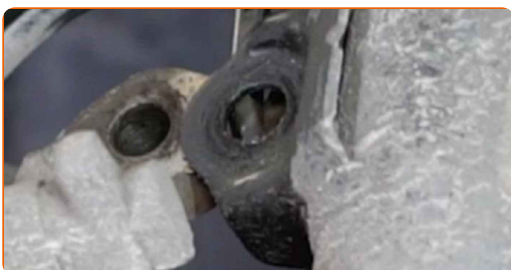
**11** Unscrew the lower fasteners on the shock absorber. Use a drive socket #19. Use a ratchet wrench.



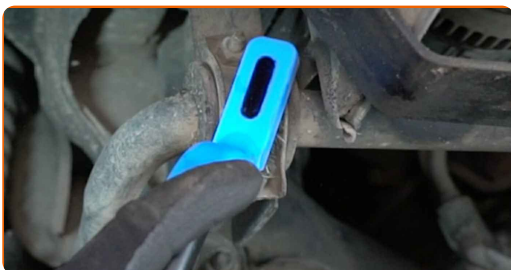
**12** Remove the fastening bolts.



**13** Detach the strut from the steering knuckle. Use a crowbar.



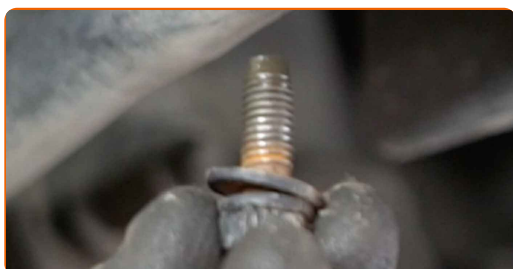
**14** Clean the fasteners of the stabilizer bush brackets. Use a wire brush. Use WD-40 spray.



- 15 Unscrew the fasteners of the stabilizer bush brackets. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.



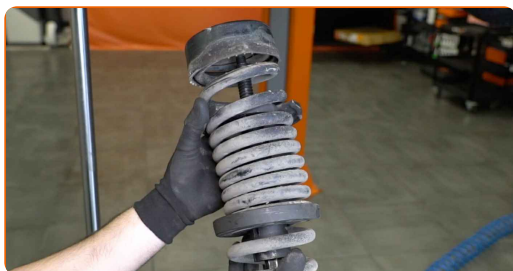
- 16 Remove the fastening bolts.



- 17 Remove the stabilizer bush brackets.



- 18 Remove the coil spring together with the coil spring compressor.





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

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

**19**

Decompress the spring.



**20**

Put the coil spring compressor on the new spring.



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

- The position of the compressor on the new coil spring should be the same as on the old one.

**21**

Compress the spring.



**AUTODOC recommends:**

- Be careful. The compressed spring is powerful and can cause injury if it comes loose.

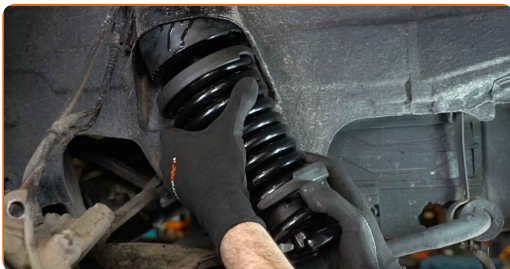
**22**

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



**23**

Install the spring together with the compressor.

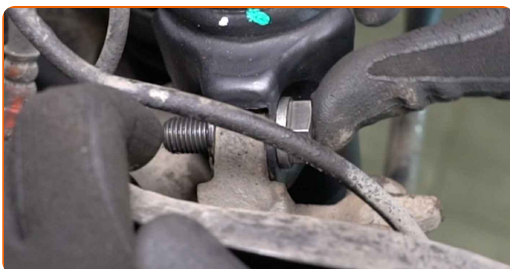


**AUTODOC recommends:**

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

**24**

Install the fastening bolts.



- 25** Tighten the lower fasteners on the shock absorbers. Use a drive socket #19. Use a torque wrench. Tighten it to 110 Nm torque.

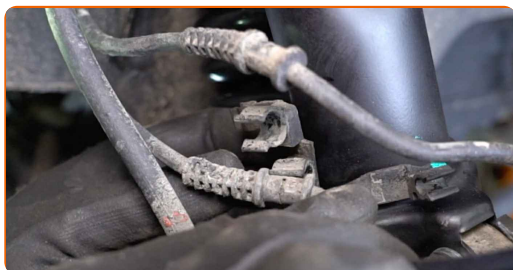


- 26** Remove the support from under the steering knuckle.

**AUTODOC recommends:**

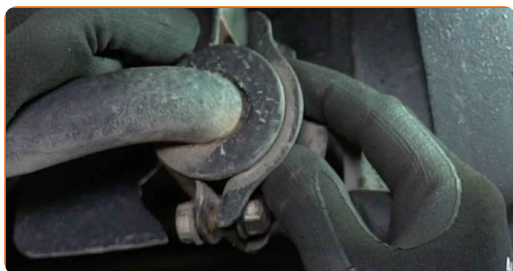
- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

- 27** Secure the wiring to the strut.

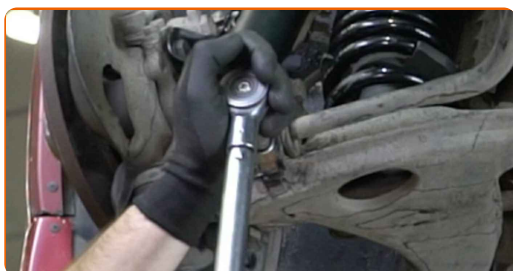


- 28** Install the stabilizer bush brackets. Use water pump pliers.

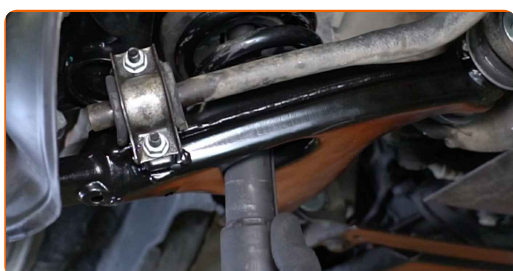
- 29** Install the fastening bolts.



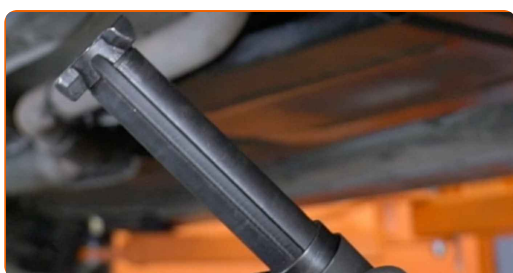
- 30 Tighten the fasteners on the anti-roll bar bush brackets. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.



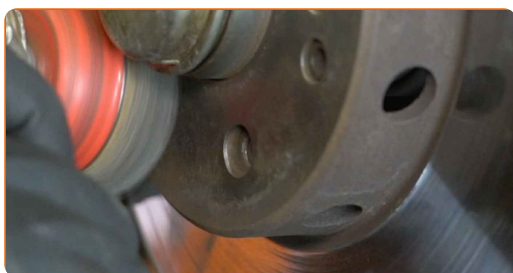
- 31 Decompress the spring.



- 32 Remove the coil spring compressor.

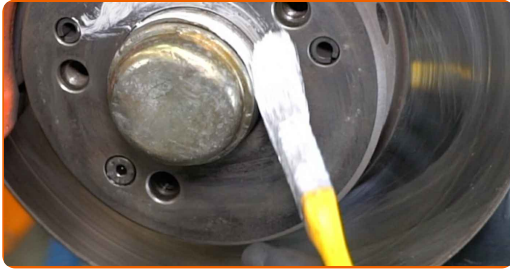


- 33 Clean the wheel rim mounting seat. Use a wire brush. Use all-purpose cleaning spray.



34

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



35

Install the wheel.



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

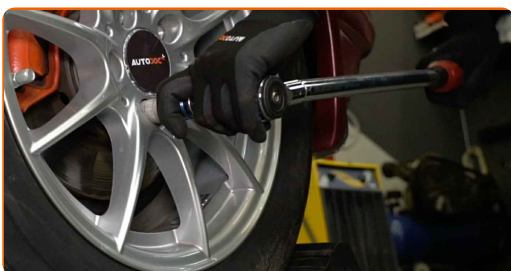
- To avoid injury, hold up the wheel when screwing in the fastening bolts.

36

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



- 37** 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.



- 38** Remove the jacks and chocks.



**WELL DONE!** 

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