



How to change front coil
springs on **Mercedes**
W201 – replacement
guide

VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:

MERCEDES-BENZ 190 (W201) E 1.8 (201.018), MERCEDES-BENZ 190 (W201) 2.0 (201.023), MERCEDES-BENZ 190 (W201) E 2.0 (201.024), MERCEDES-BENZ 190 (W201) D 2.0 (201.122)

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – MERCEDES W201.
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 #19
- Combination spanner #22
- Drive socket # 13
- Drive socket # 19
- Drive socket # 22
- Shock absorber socket # 19
- Shock absorber socket # 22
- HEX bit no.H6
- HEX bit no.H7
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Crow bar
- Strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

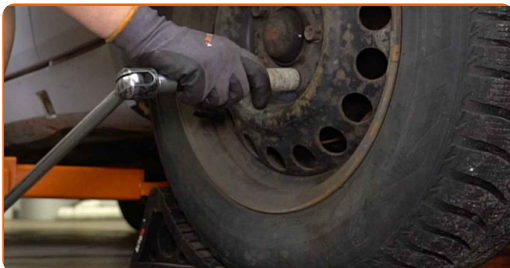
Replacement: coil springs – Mercedes W201. AUTODOC recommends:

- 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.

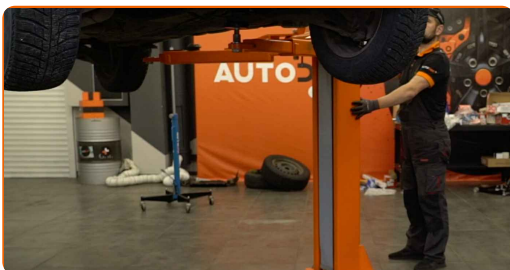
REPLACEMENT: COIL SPRINGS – MERCEDES W201. USE THE FOLLOWING PROCEDURE:

1 Secure the wheels with chocks.

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



3 Raise the car.

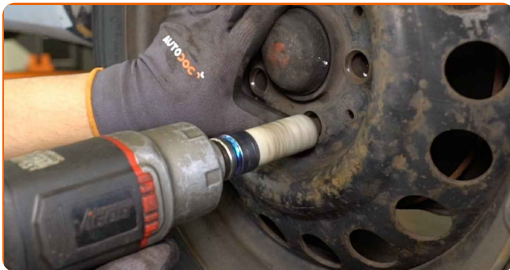


AUTODOC recommends:

- 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.

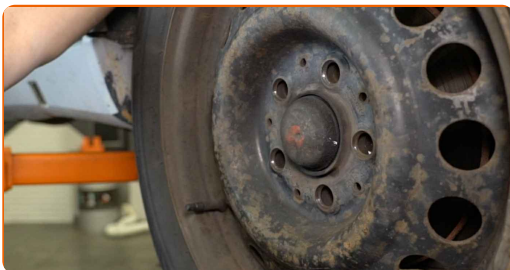


AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Mercedes W201

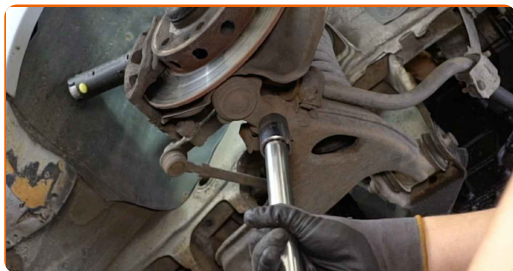
5

Remove the wheel.



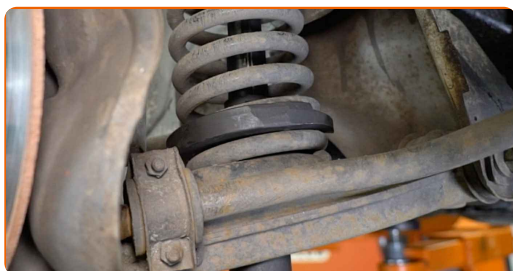
6

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.

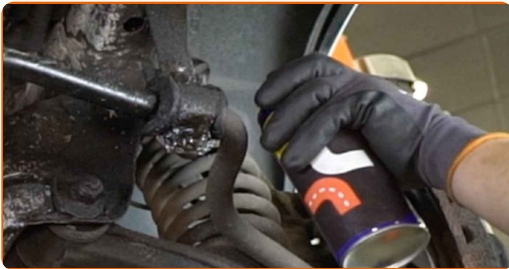


Replacement: coil springs – Mercedes W201. AUTODOC experts recommend:

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

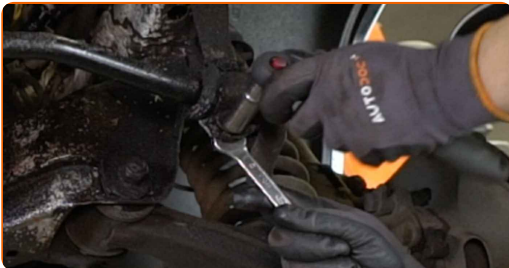
9

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



10

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

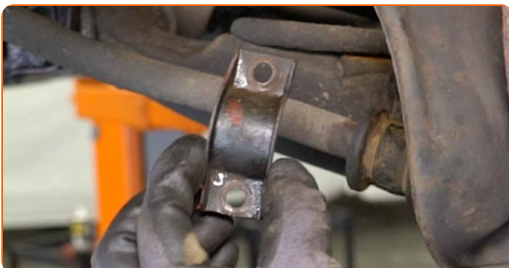


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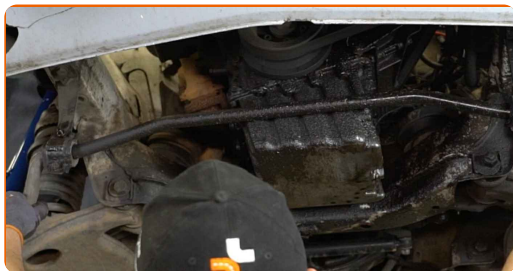
Remove the fastening bolts.

12

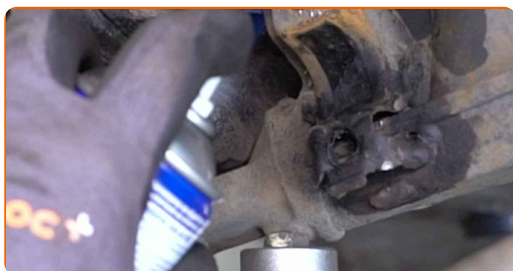
Remove the stabilizer bush brackets.



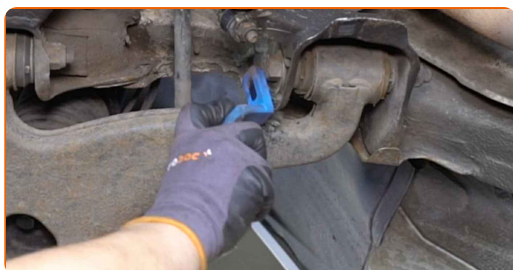
13 Detach the anti-roll bar from the suspension arms.



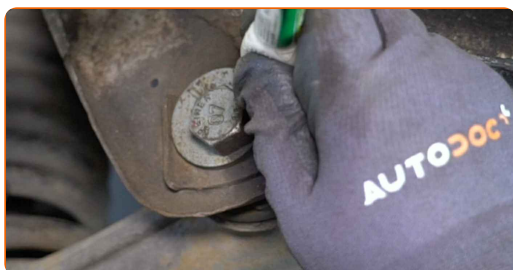
14 Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



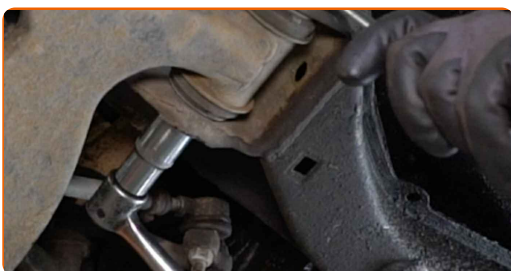
15 Clean the control arm fasteners. Use a wire brush. Use WD-40 spray.



16 Make marks on the camber bolts.



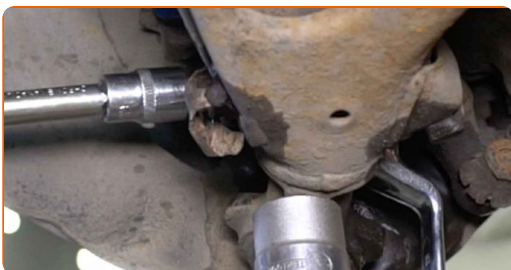
- 17** Unscrew the front fastener of the control arm. Use a combination spanner #22. Use a drive socket #22. Use a ratchet wrench.



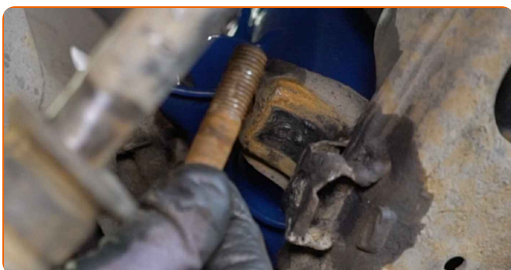
- 18** Unscrew the rear fastener of the control arm. Use a combination spanner #22. Use a drive socket #22. Use a ratchet wrench.



- 19** Unscrew the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



- 20** Remove the fastening bolt.



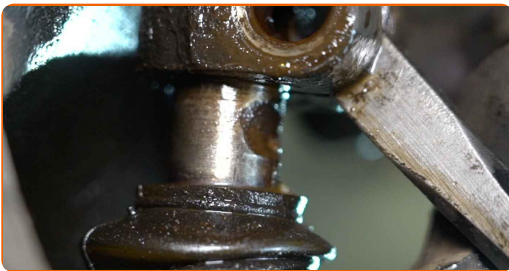
21 Remove the support from under the steering knuckle.



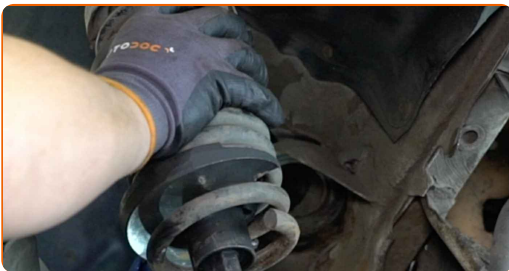
AUTODOC recommends:

- Mercedes W201 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

22 Disconnect the ball joint from the steering knuckle. Use a crowbar.



23 Remove the coil spring together with the coil spring compressor.



AUTODOC recommends:

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

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



25 Clean the ball joint mounting seat. Use a wire brush. Use all-purpose cleaning spray.



26 Decompress the spring.



27 Put the coil spring compressor on the new spring.



AUTODOC recommends:

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

28

Compress the spring.

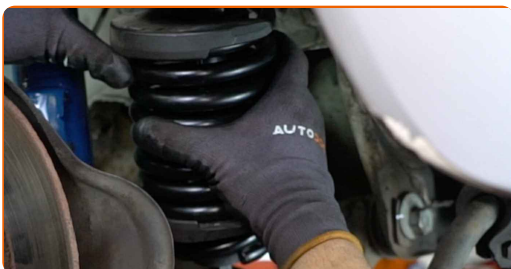


Replacement: coil springs – Mercedes W201. Tip:

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

29

Install the spring together with the compressor.

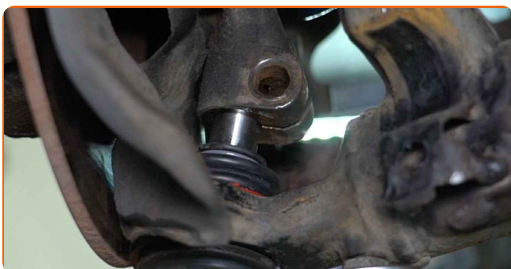


AUTODOC recommends:

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

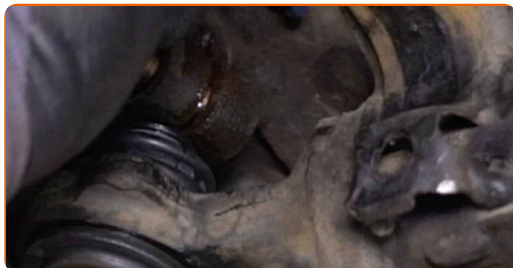
30

Connect the ball joint to the steering knuckle.

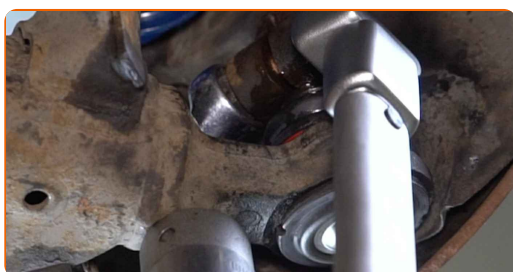


31 Support the steering knuckle. Use a hydraulic transmission jack.

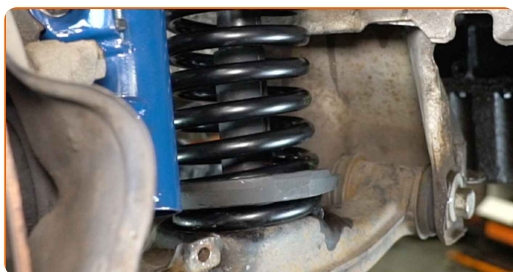
32 Install the fastening bolt.



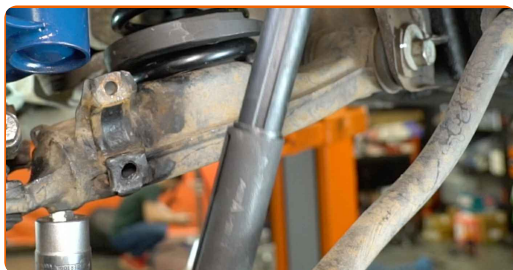
33 Tighten the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 75 Nm torque.



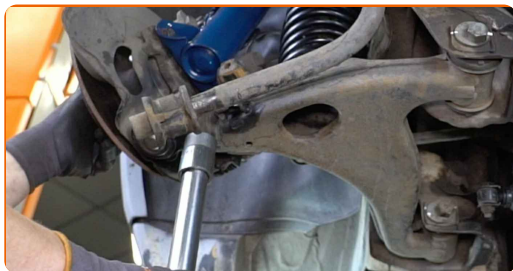
34 Decompress the spring.



35 Remove the coil spring compressor.

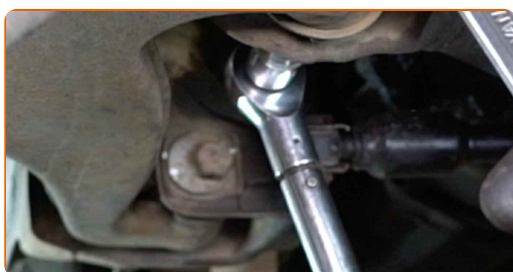


36 For tightening the fasteners correctly, you have to jack up the suspension components to their working position.



37 Adjust the position of the camber bolts according to the marks.

38 Tighten the front fastener of the arm. Use a combination spanner #22. Use a drive socket #22. Use a torque wrench. Tighten it to 120 Nm torque.



39 Tighten the rear fastener of the control arm. Use a combination spanner #22. Use a drive socket #22. Use a torque wrench. Tighten it to 120 Nm torque.



40 Remove the support from under the steering knuckle.



Replacement: coil springs – Mercedes W201. AUTODOC experts recommend:

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

41

Clean the brackets of the anti-roll bar bushings. Use a wire brush. Use all-purpose cleaning spray.

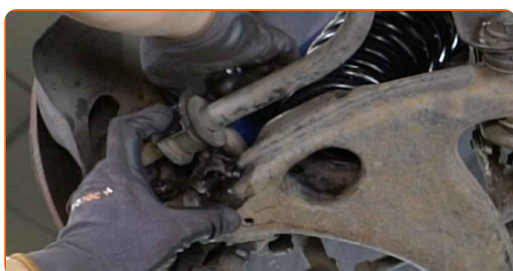


42

Attach the anti-roll bar to the suspension arms. Use a crowbar.

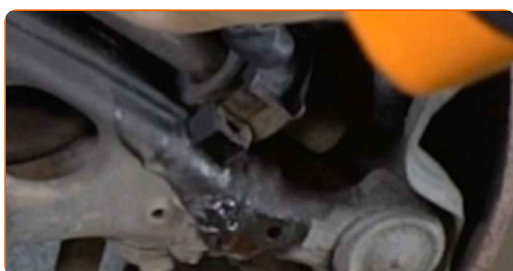
43

Install the stabilizer bush brackets.

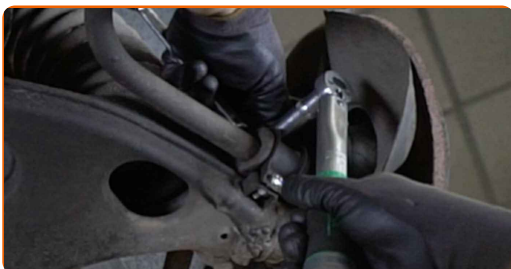


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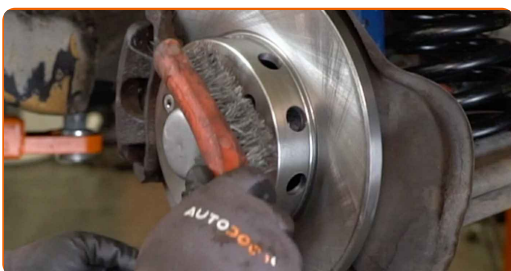
Install the fastening bolts.



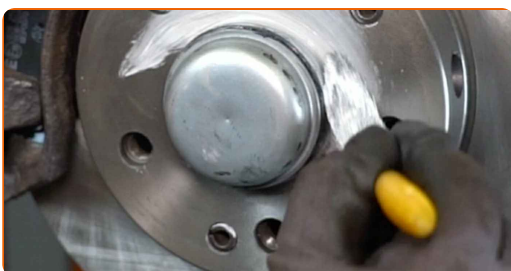
- 45** Tighten the fasteners on the anti-roll bar bush brackets. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.



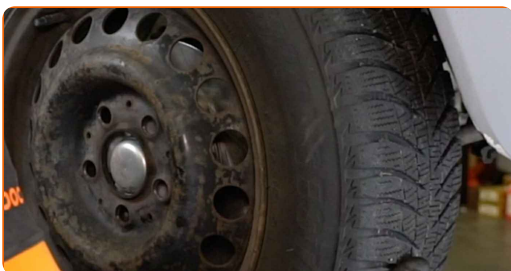
- 46** Clean the wheel rim mounting seat. Use a wire brush. Use all-purpose cleaning spray.



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



- 48** Install the wheel.



AUTODOC recommends:

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

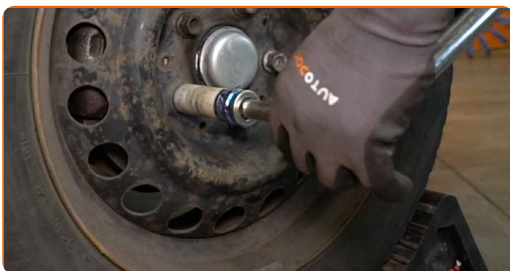
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Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.



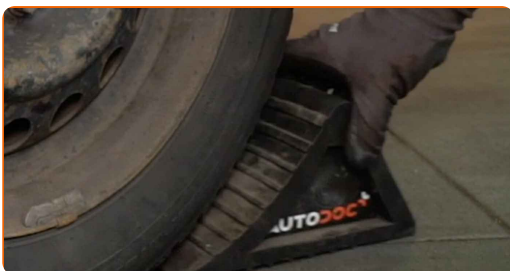
50

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.



51

Remove the jacks and chocks.



WELL DONE! 

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