



How to change rear coil
springs on **MERCEDES-
BENZ Vito Van (W638)** –
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 Vito Van (W638) 108 D 2.3 (638.064, 638.068), MERCEDES-BENZ Vito Van (W638) 110 D 2.3 (638.074, 638.078), MERCEDES-BENZ Vito Van (W638) 113 2.0 (638.014, 638.094), MERCEDES-BENZ Vito Van (W638) 114 2.3 (638.034, 638.094), MERCEDES-BENZ Vito Van (W638) 108 CDI 2.2 (638.094), MERCEDES-BENZ Vito Van (W638) 110 CDI 2.2 (638.094), MERCEDES-BENZ Vito Van (W638) 112 CDI 2.2 (638.094)

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 Vito Minibus (W638) 112 CDI 2.2 (638.194)

REPLACEMENT: COIL SPRINGS – MERCEDES-BENZ VITO VAN (W638). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 21
- Wheel impact socket #17
- Torque wrench
- Tap wrench
- Crow bar
- Hydraulic transmission jack
- Wheel chock

Buy tools

Replacement: coil springs – MERCEDES-BENZ Vito Van (W638). Tip from AUTODOC:

- 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.
- Please note: all work on the car – MERCEDES-BENZ Vito Van (W638) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

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:

- Important! Hold the wheel while unscrewing the fastening bolts. MERCEDES-BENZ Vito Van (W638)

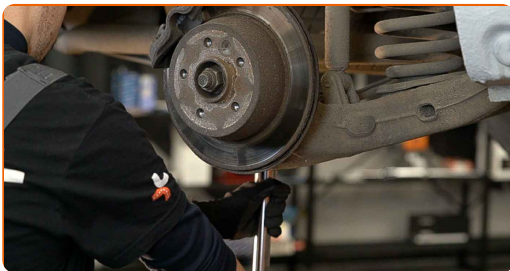
5

Remove the wheel.



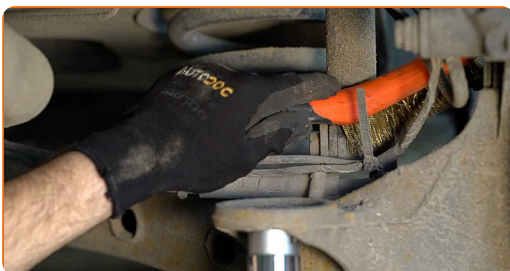
6

Support the rear suspension beam. Use a hydraulic transmission jack.

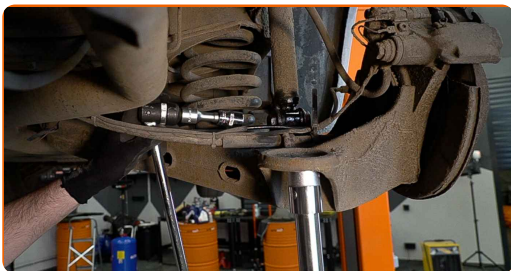


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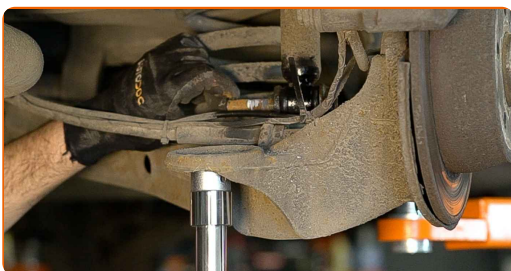
Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



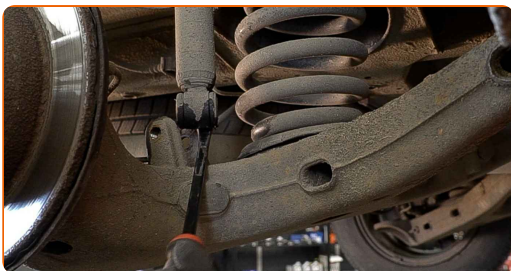
8 Unscrew the lower fastener of the shock absorber. Use a drive socket #21. Use a tap wrench.



9 Remove the fastening bolt.



10 Detach the lower part of the shock absorber. Use a crowbar.



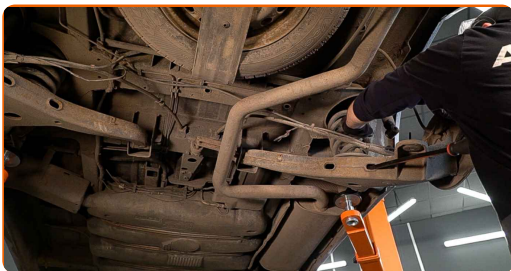
11 Remove the mounting from under the rear axle beam.



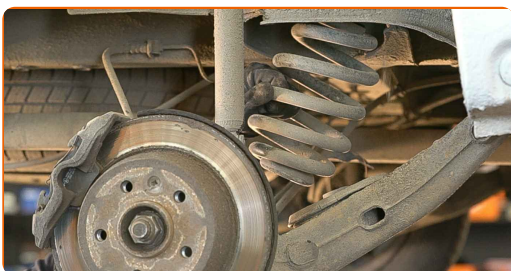
AUTODOC recommends:

- Replacement: coil springs – MERCEDES-BENZ Vito Van (W638). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

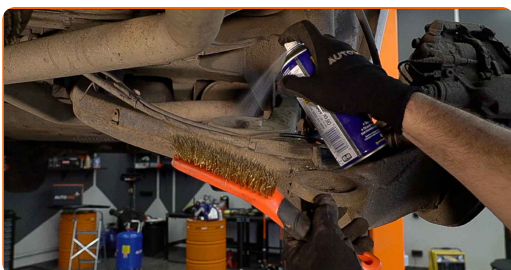
12 Pull down the rear suspension beam. Use a crowbar.



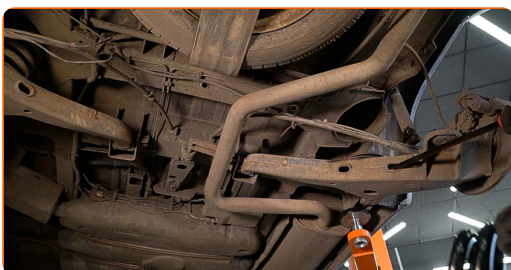
13 Take out the spring.



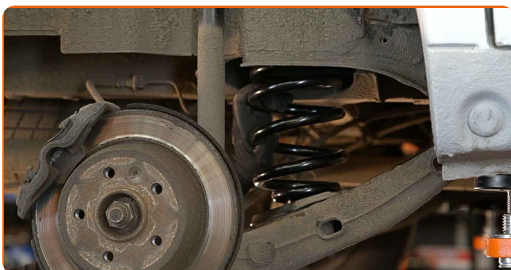
14 Clean the coil spring mounting seats. Use a wire brush. Use WD-40 spray.



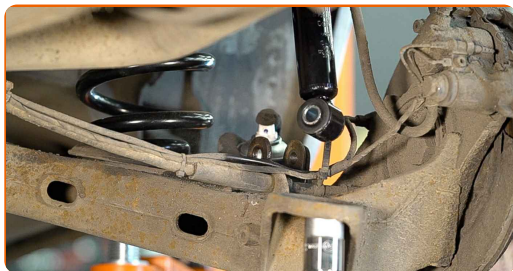
15 Pull down the rear suspension beam. Use a crowbar.



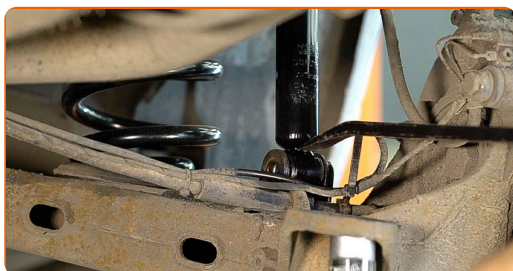
16 Install the coil spring together with the rubber mounts into the mounting seats.



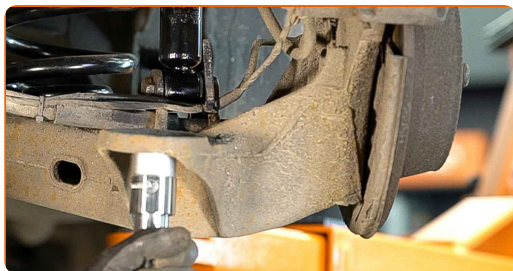
17 Clean the shock absorber fasteners. Use WD-40 spray.



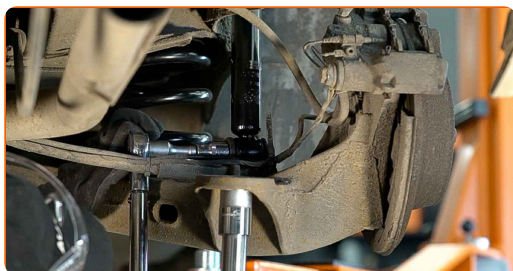
18 Attach the lower part of the shock absorber. Install the fastening bolt. Use a crowbar.



19 Support the rear suspension beam. Use a hydraulic transmission jack.



20 Tighten the lower fastener of the shock absorber. Use a drive socket #21. Use a torque wrench. Tighten it to 133 Nm torque.



21 Remove the mounting from under the rear axle beam.

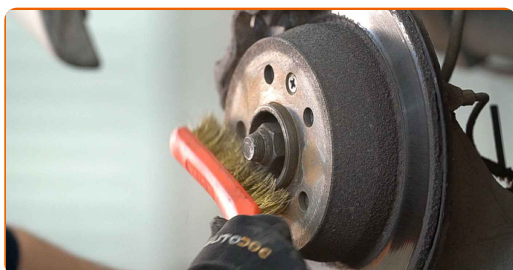


AUTODOC recommends:

- MERCEDES-BENZ Vito Van (W638) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

22

Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



23

Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ Vito Van (W638)

24

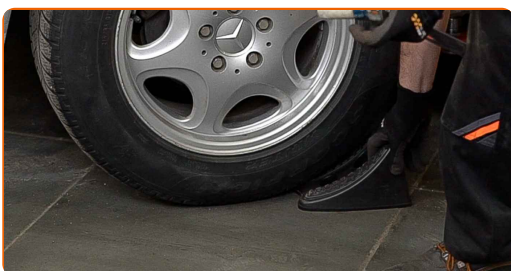
Screw in the wheel bolts. Use wheel impact socket #17.



- 25** Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 175 Nm torque.



- 26** Remove the jacks and chocks.



WELL DONE! 

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