AUTODOC CLUB

How to change rear coil springs on **Mercedes Vito W638** – replacement guide

VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
MERCEDES-BENZ Vito Minibus (W638) 108 D 2.3 (638.164), MERCEDES-BENZ Vito Minibus (W638) 110 TD 2.3 (638.174), MERCEDES-BENZ Vito Minibus (W638) 113 2.0 (638.114, 638.194), MERCEDES-BENZ Vito Minibus (W638) 114 2.3 (638.134, 638.194), 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 Minibus (W638) 108 CDI 2.2 (638.194), MERCEDES-BENZ Vito Minibus (W638) 110 CDI 2.2 (638.194), 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.

REPLACEMENT: COIL SPRINGS – MERCEDES VITO 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 Vito W638. Tip from AUTODOC:

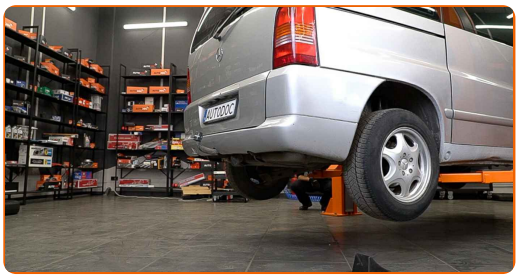
- Both coil springs of the rear suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the rear suspension.
- Please note: all work on the car – Mercedes Vito W638 – should be done with the engine switched off.

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.



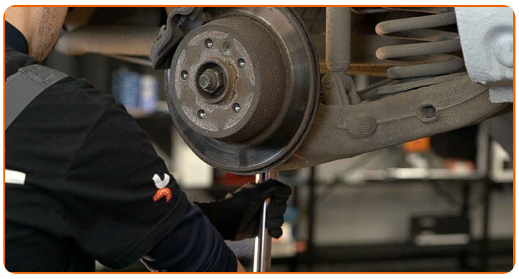
4 Unscrew the wheel bolts.

AUTODOC recommends:

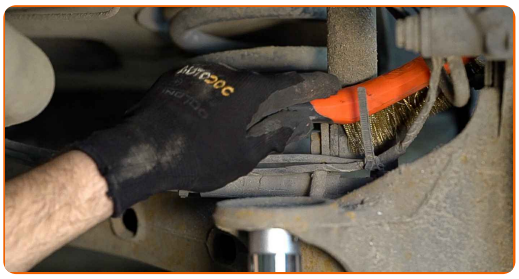
- Important! Hold the wheel while unscrewing the fastening bolts. Mercedes Vito W638

5 Remove the wheel.

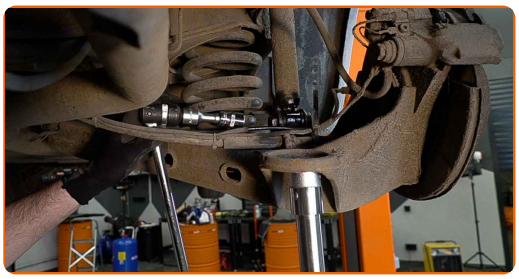
6 Support the rear suspension beam. Use a hydraulic transmission jack.



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

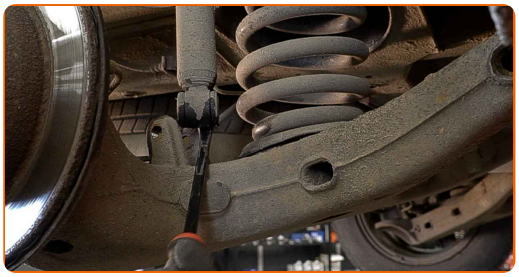


8 Unscrew the lower fastener of the shock absorber. Use a drive socket #21. Use a tap wrench.



9 Remove the fastening bolt.

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

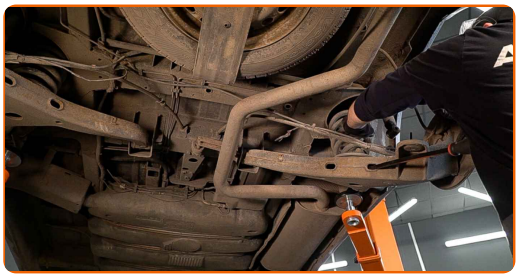


11 Remove the mounting from under the rear axle beam.

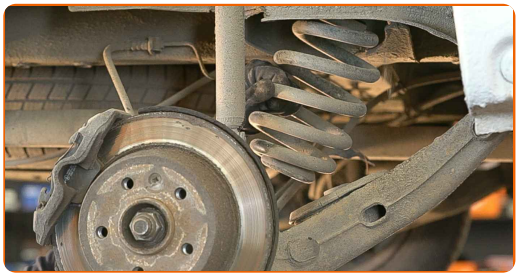
AUTODOC recommends:

- Replacement: coil springs – Mercedes Vito W638. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

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

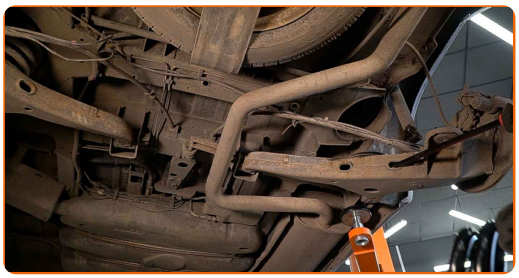


13 Take out the spring.

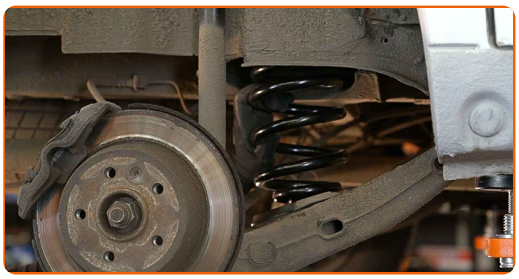


14 Clean the coil spring mounting seats. Use a wire brush. Use WD-40 spray.

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

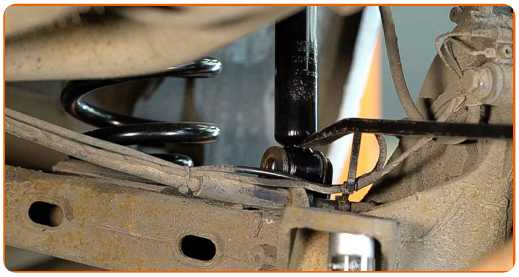


16 Install the coil spring together with the rubber mounts into the mounting seats.



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.

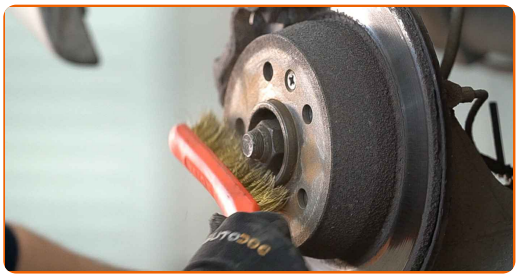
20 Tighten the lower fastener of the shock absorber. Use a drive socket #21. Use a torque wrench. Tighten it to 133 Nm torque.

21 Remove the mounting from under the rear axle beam.

AUTODOC recommends:

- Mercedes Vito 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 Vito 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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