



How to change rear  
shock absorbers on  
**MERCEDES-BENZ V-**  
**Class (W638/2) –**  
replacement guide

### SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

### Important!

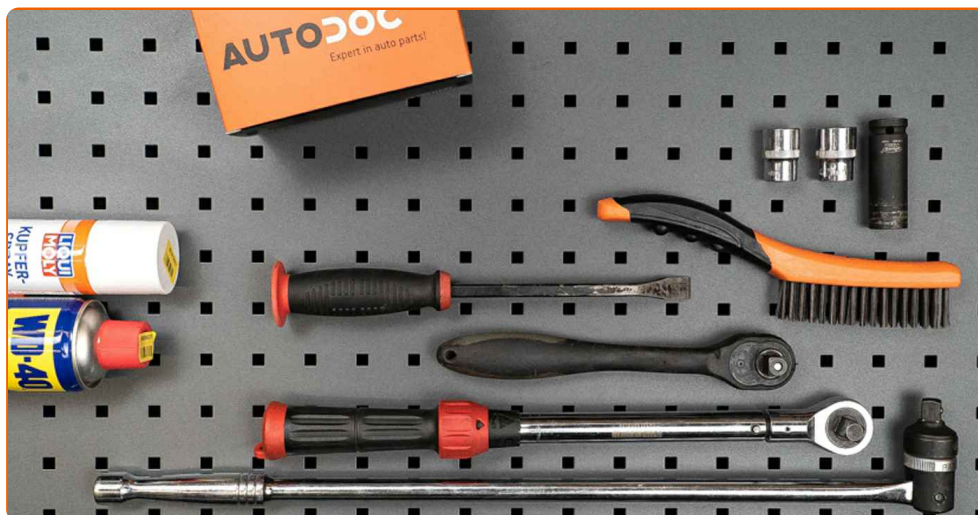
This replacement procedure can be used for:

MERCEDES-BENZ V-Class (W638/2) V 230 TD (638.274), MERCEDES-BENZ V-Class (W638/2) V 230 (638.234, 638.294), MERCEDES-BENZ V-Class (W638/2) V 280 (638.244, 638.294), MERCEDES-BENZ V-Class (W638/2) V 200 (638.214, 638.294), MERCEDES-BENZ V-Class (W638/2) V 200 CDI (638.294), MERCEDES-BENZ V-Class (W638/2) V 220 CDI (638.294)

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 Bus (638) 112 CDI 2.2 (638.194)

**REPLACEMENT: SHOCK ABSORBERS – MERCEDES-BENZ V-CLASS (W638/2). TOOLS YOU'LL 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: shock absorbers – MERCEDES-BENZ V-Class (W638/2).  
AUTODOC recommends:

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

**REPLACEMENT: SHOCK ABSORBERS – MERCEDES-BENZ V-CLASS (W638/2). USE THE FOLLOWING PROCEDURE:**

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.



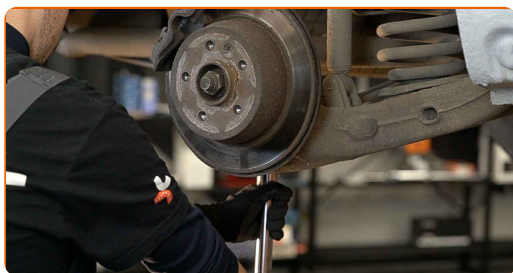
Replacement: shock absorbers – MERCEDES-BENZ V-Class (W638/2). Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

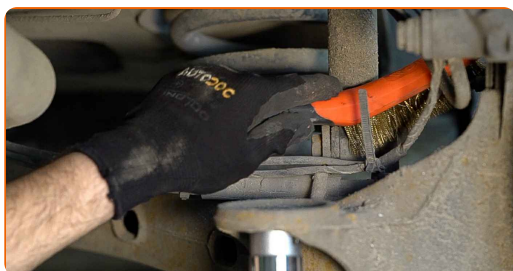
**5** Remove the wheel.



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



**7.1** Clean the shock absorber fasteners.



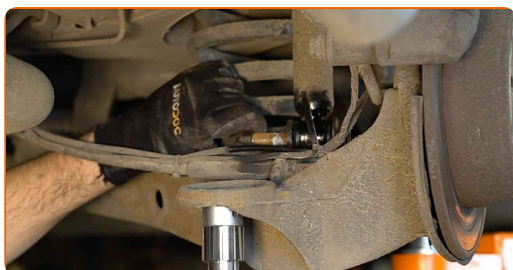
**7.2** Use a wire brush. Use WD-40 spray.



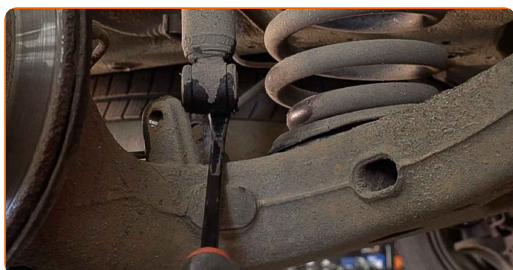
**8** Unscrew the lower fastener of the shock absorber. Use a drive socket #21. Use a crowbar. Use a tap wrench.



**9** Remove the fastening bolt.



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



**11** Lower the hydraulic transmission jack by 10-15 cm.





**AUTODOC recommends:**

- Replacement: shock absorbers – MERCEDES-BENZ V-Class (W638/2). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**12**

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



**AUTODOC recommends:**

- Important! Hold the shock absorber while unscrewing the fastening bolts. MERCEDES-BENZ V-Class (W638/2)

**13**

Remove the shock absorber.

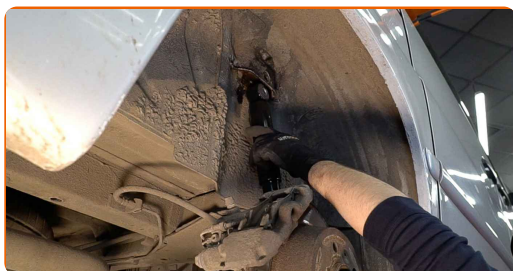


**Replacement: shock absorbers – MERCEDES-BENZ V-Class (W638/2). Tip:**

- Before installing a new shock absorber you should pump it manually 3-5 times.

14

Place the shock absorber in the wheel arch and fasten it.

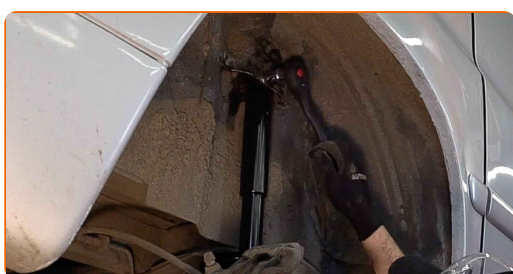


Replacement: shock absorbers – MERCEDES-BENZ V-Class (W638/2).  
AUTODOC recommends:

- To avoid injury, hold the shock absorber cautiously tight when screwing in the fastening bolts.

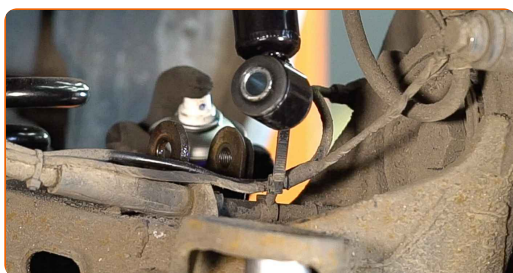
15

Screw the upper fastener of the shock absorber. Use a drive socket #21.



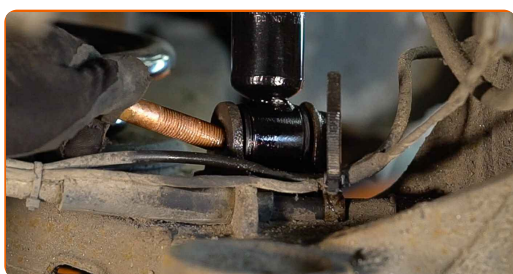
16

Treat the shock absorber mounting seats. Use WD-40 spray.



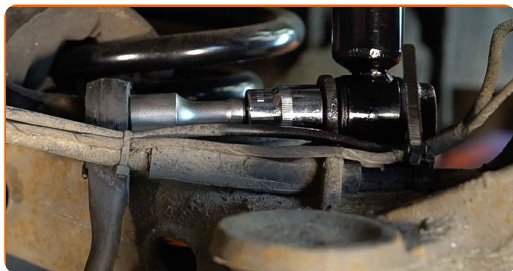
17

Attach the lower part of the shock absorber. Install the fastening bolt.





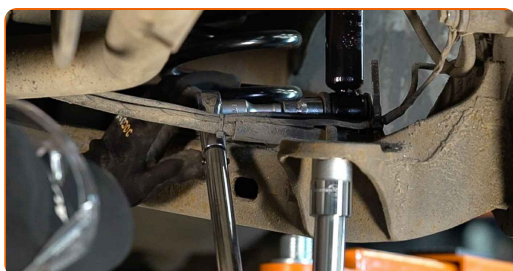
**18** Screw in the lower fastener of the shock absorber. Use a drive socket #21.



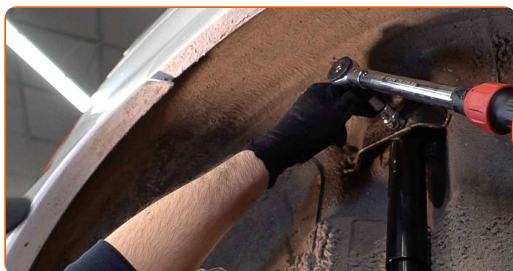
**19** Support the rear suspension beam. Use a hydraulic transmission jack.



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



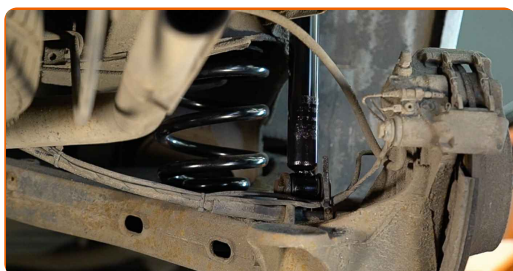
**21** Remove the mounting from under the rear axle beam.



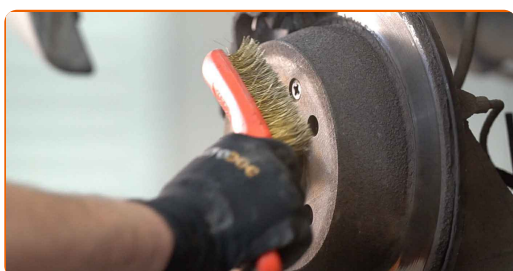
**AUTODOC recommends:**

- MERCEDES-BENZ V-Class (W638/2) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

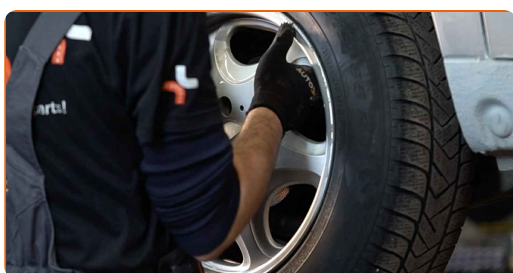
- 22** Tighten the top shock absorber fastening. Use a drive socket #21. Use a torque wrench. Tighten it to 120 Nm torque.



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



- 24** Install the wheel.



Replacement: shock absorbers – MERCEDES-BENZ V-Class (W638/2).  
AUTODOC experts recommend:

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

**25**

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

**26**

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

**27**

Remove the jacks and chocks.



**WELL DONE!** 

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