



How to change front
shock absorbers on
Mercedes ML W163 –
replacement guide

VIDEO TUTORIAL



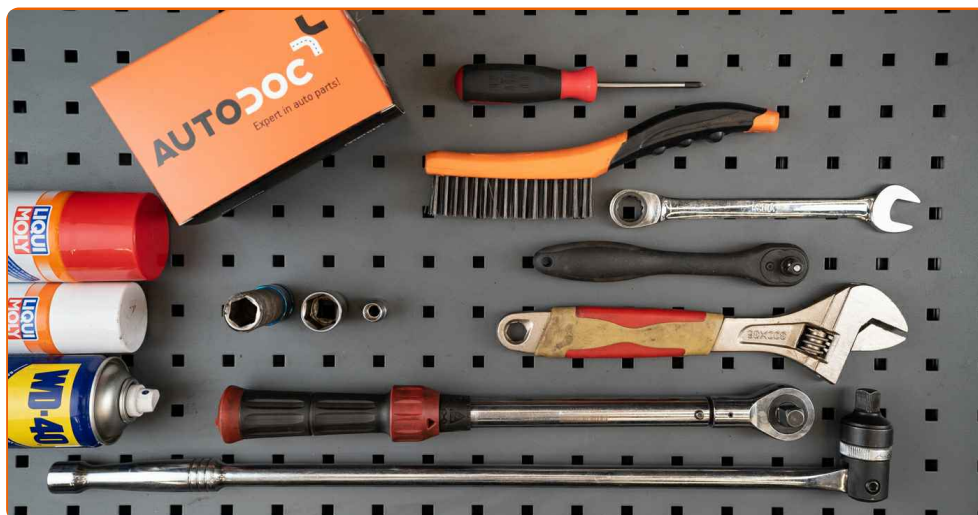
Important!

This replacement procedure can be used for:

MERCEDES-BENZ M-Class (W163) ML 320 (163.154), MERCEDES-BENZ M-Class (W163) ML 230 (163.136), MERCEDES-BENZ M-Class (W163) ML 430 (163.172), MERCEDES-BENZ M-Class (W163) ML 400 CDI (163.128), MERCEDES-BENZ M-Class (W163) ML 500 (163.175), MERCEDES-BENZ M-Class (W163) ML 350 (163.157), MERCEDES-BENZ M-Class (W163) ML 350

The steps may slightly vary depending on the car design.

REPLACEMENT: SHOCK ABSORBERS – MERCEDES ML W163. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Drive socket # 10
- Drive socket # 22
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Phillips screwdriver
- Adjustable wrench
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

Replacement: shock absorbers – Mercedes ML W163. Tools you'll need:

- Replace both front shock absorbers at a time.
- The replacement procedure is identical for the left and right shock absorbers of the front suspension.
- Warning! Shut down the engine before starting any work – Mercedes ML W163.

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 front of the car and secure on supports.
- 4 Unscrew the wheel bolts.



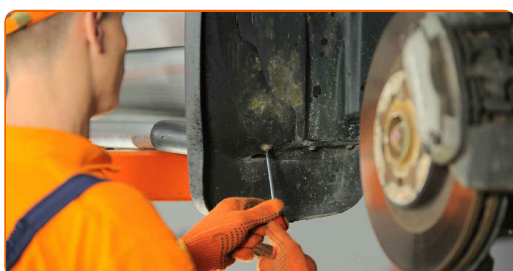
AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Mercedes ML W163

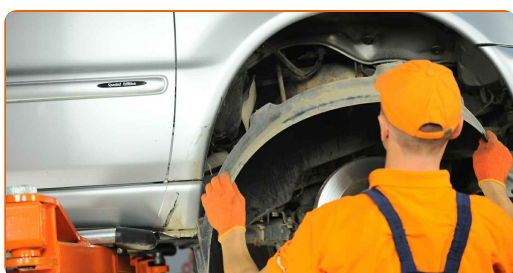
5 Remove the wheel.



6 Unscrew and remove the wheel arch cover fasteners. Use a Phillips screwdriver. Use a drive socket #10. Use a ratchet wrench.



7 Remove the wheel arch cover.



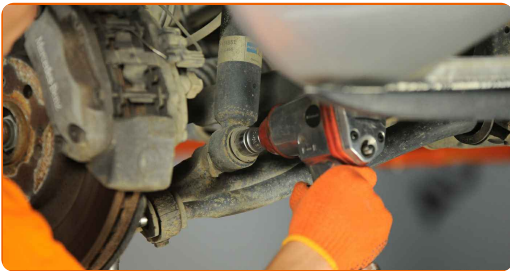
8 Support the arm. Use a hydraulic transmission jack.



9 Unscrew the upper fastener of the shock absorber. Use a combination spanner #17. Use an adjustable wrench.



10 Unscrew the lower fastener of the shock absorber. Use a drive socket #22. Use a ratchet wrench.

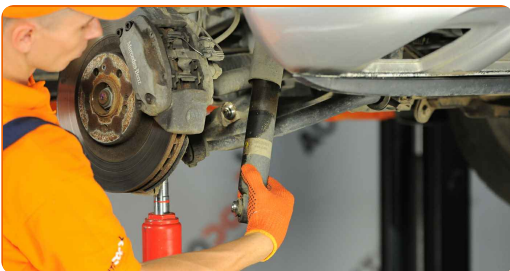


Replacement: shock absorbers – Mercedes ML W163. Tip:

- To avoid injuries, hold the shock absorber when undoing the fastening bolts.

11 Remove the fastening bolt.

12 Remove the shock absorber.



Replacement: shock absorbers – Mercedes ML W163. AUTODOC experts recommend:

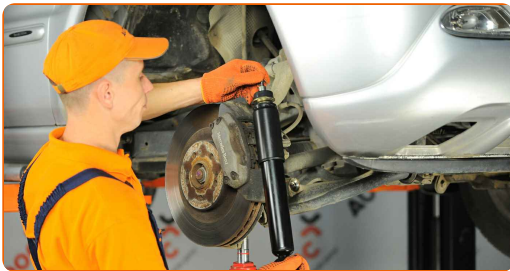
- Before installing a new shock absorber you should pump it manually 3-5 times.

13

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

14

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



AUTODOC recommends:

- Important! Hold the shock absorber while screwing in the fastening bolts.
Mercedes ML W163

15

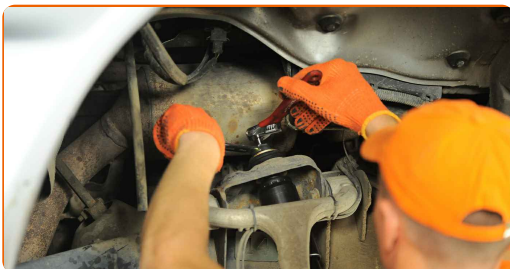
Install the fastening bolt.

16

Screw in the lower fastener of the shock absorber.

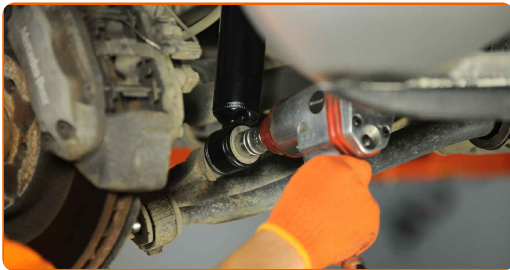
17

Tighten the top shock absorber fastening. Use a combination spanner #17. Use a torque wrench. Tighten it to 30 Nm torque.



18

Tighten the lower fastener of the shock absorber. Use a drive socket #22. Use a torque wrench. Tighten it to 130 Nm torque.



19

Remove the support from under the arm.

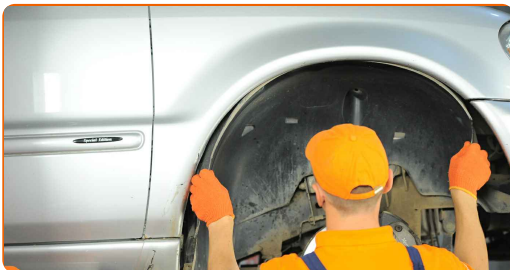


AUTODOC recommends:

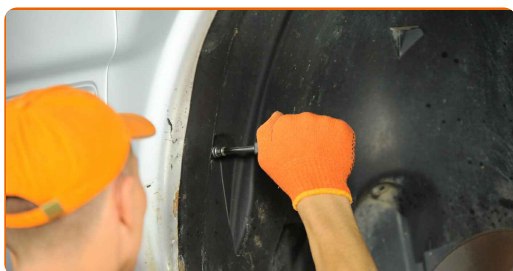
- Replacement: shock absorbers – Mercedes ML W163. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

20

Install the wheel arch cover to its mounting seat.



- 21** Install and tighten the wheel arch cover fasteners. Use a Phillips screwdriver. Use a drive socket #10. Use a ratchet wrench.



- 22** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



- 23** Clean the brake disk surface. Use a brake cleaner.

Replacement: shock absorbers – Mercedes ML W163. Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

- 24** Install the wheel.



Replacement: shock absorbers – Mercedes ML W163. Tip from AUTODOC:

- 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 150 nm torque.

27

Remove the jacks and chocks.

WELL DONE! 

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