



How to change front
brake discs on **Mercedes**
ML W163 – replacement
guide

VIDEO TUTORIAL

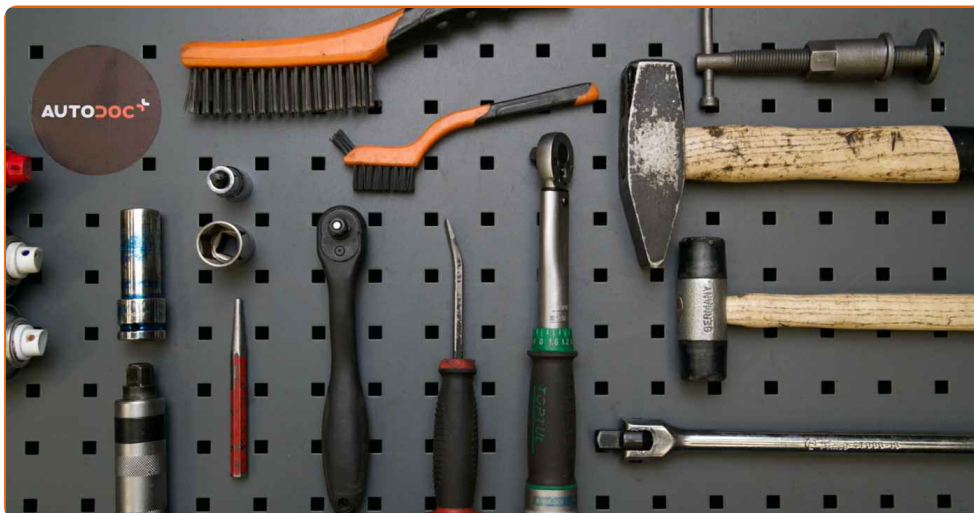
** Important!**

This replacement procedure can be used for:

MERCEDES-BENZ M-Class (W163) ML 320 (163.154), MERCEDES-BENZ M-Class (W163) ML 430 (163.172), MERCEDES-BENZ M-Class (W163) ML 55 AMG (163.174), 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: BRAKE DISCS – MERCEDES ML W163.
TOOLS YOU NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Drive socket # 22
- HEX bit No.H5
- Wheel impact socket #17
- Ratchet wrench
- Pin punch
- Hammer
- Tap wrench
- Rubber mallet
- Impact screwdriver
- Brake caliper wind back tool
- Crow bar
- Wheel chock

BUY TOOLS

AUTODOC recommends:

- Replace the brake disks on the car Mercedes ML W163 in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- Please note: all work on the car – Mercedes ML W163 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Open the bonnet. Unscrew the brake fluid reservoir cap.



2

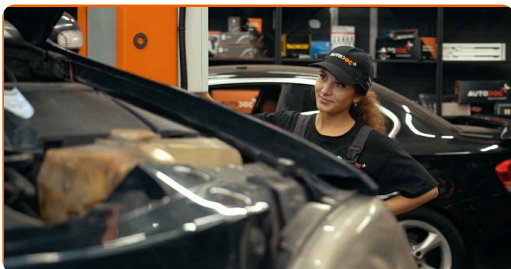
Secure the wheels with chocks.

3

Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the front of the car and secure on supports.



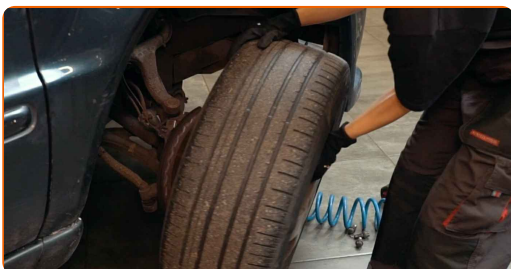
5 Unscrew the wheel bolts.



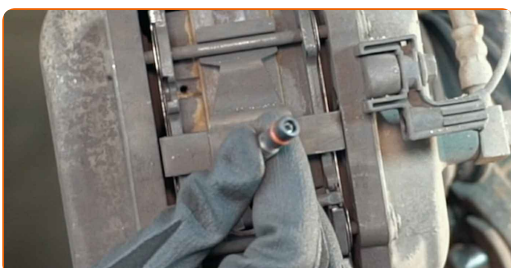
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
Mercedes ML W163

6 Remove the wheel.



7 Detach the connector of the brake pad wear sensor.



Please note!

- Some cars are not equipped with the brake pad wear sensor.

8

Clean the brake caliper surface. Use a wire brush. Use a brake cleaner.

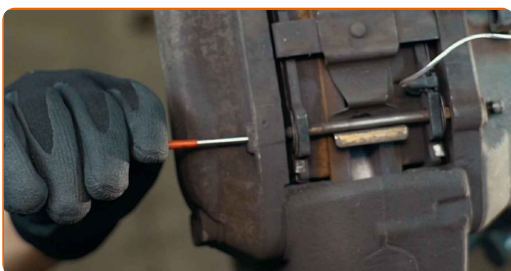


AUTODOC recommends:

- Replacement: brake discs – Mercedes ML W163. After applying the spray, wait a few minutes.

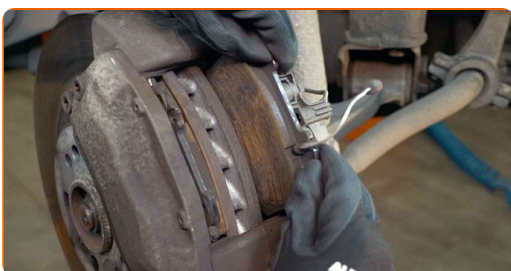
9

Remove the brake pads retaining clips. Use a pin punch. Use a hammer. Use a crowbar.



10

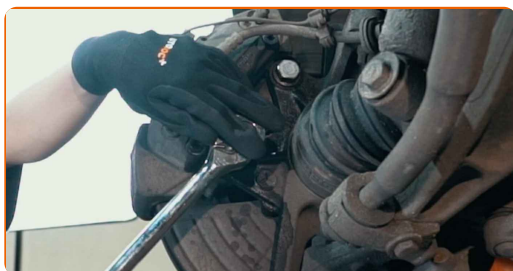
Remove the brake pads. Use a crowbar.



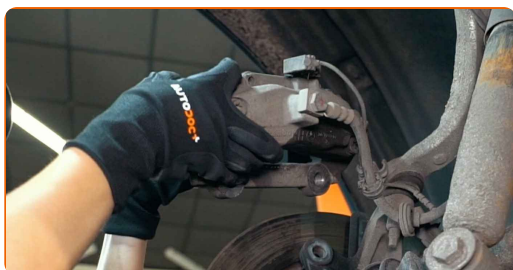
11 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



12 Unscrew the caliper bracket fastening. Use a drive socket #22. Use a ratchet wrench. Use a tap wrench.



13 Remove the brake caliper together with its bracket.

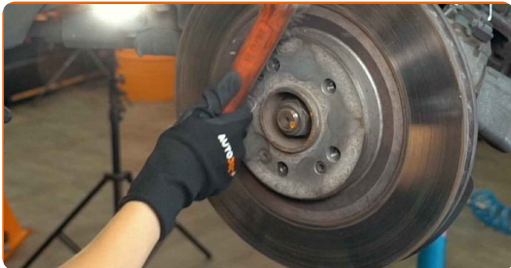


Replacement: brake discs – Mercedes ML W163. AUTODOC experts recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

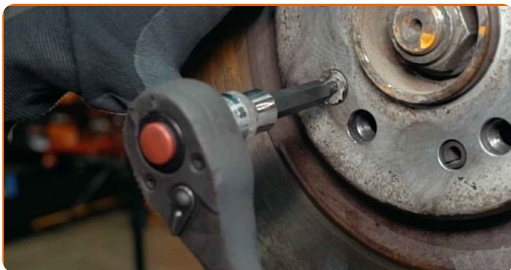
14

Clean the brake disc fastener. Use a wire brush. Use WD-40 spray.



15

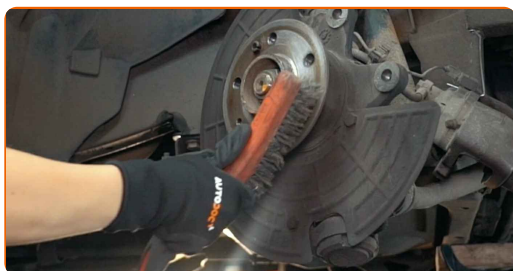
Unscrew the brake disc fastening. Use HEX No.H5. Use an impact screwdriver.



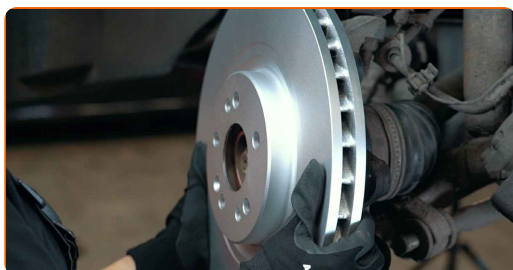
16 Remove the brake disc. Use a rubber mallet.



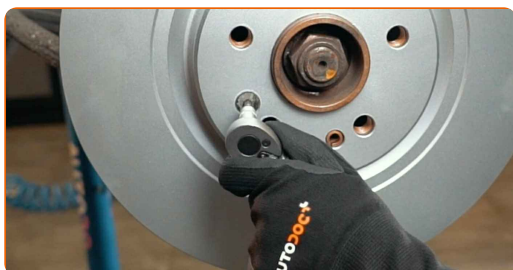
17 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



18 Install the brake disc.



19 Tighten the brake disc fastening. Use HEX No.H5. Use a torque wrench. Tighten it to 8 Nm torque.



20

Treat the brake caliper piston. Use a nylon cleaning brush. Use a brake cleaner.

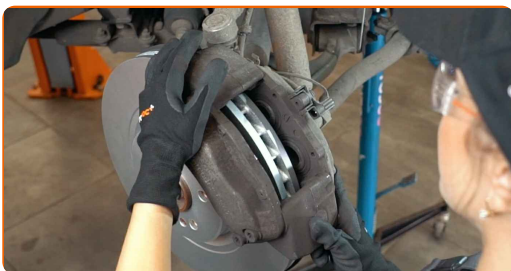


AUTODOC recommends:

- Replacement: brake discs – Mercedes ML W163. After applying the spray, wait a few minutes.

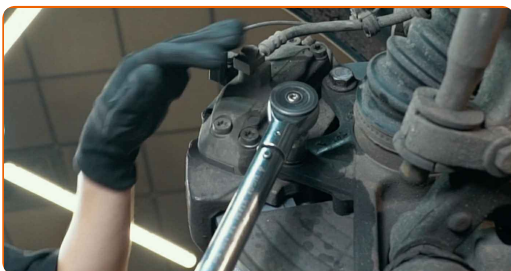
21

Install the brake caliper together with its bracket.



22

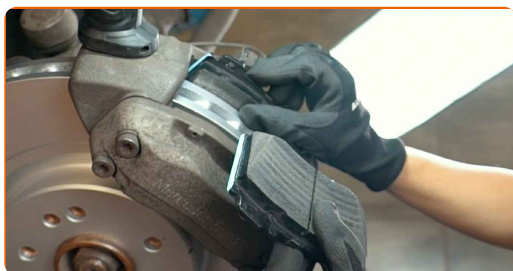
Tighten the brake caliper bracket. Use a drive socket #22. Use a torque wrench. Tighten it to 180 Nm torque.



23 Press in the brake caliper piston. Use brake caliper wind back tool. Use a crowbar.



24 Install the brake pads.



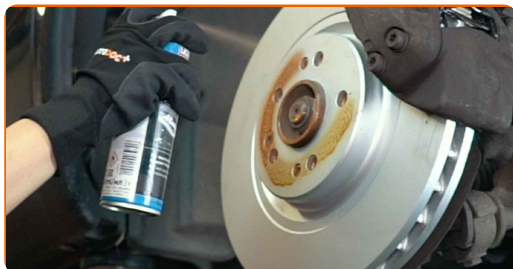
25 Install the brake pads retaining clips. Use a rubber mallet.



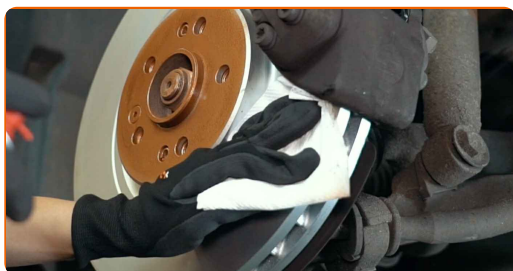
26 Attach the connector of the brake pad wear sensor.



27 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



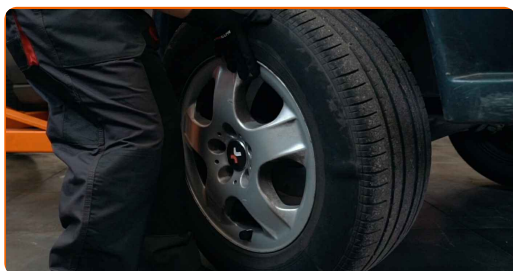
28 Clean the brake disk surface. Use a brake cleaner.



Replacement: brake discs – Mercedes ML W163. Professionals recommend:

- After applying the spray, wait a few minutes.

29 Install the wheel.



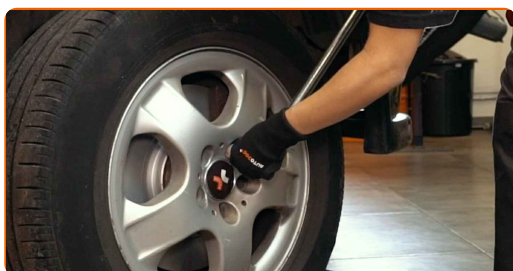
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Mercedes ML W163

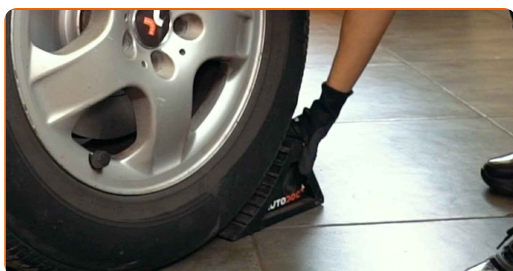
30 Screw in the wheel bolts. Use wheel impact socket #17.



31 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 150 Nm torque.



32 Remove the jacks and chocks.



Replacement: brake discs – Mercedes ML W163. Tip:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and refill if necessary.

33

Tighten the brake fluid reservoir cap. Close the hood.



WELL DONE! 

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