



How to change front
brake pad wear sensor 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)

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE PAD WEAR SENSOR –
MERCEDES ML W163. LIST OF THE TOOLS YOU'LL
NEED:



- Wire brush
- Nylon cleaning brush
- Brake cleaner
- Anti-squeal paste
- Copper grease
- Torque wrench
- Wheel impact socket #17
- Pin punch
- Hammer
- Rubber mallet
- Brake caliper wind back tool
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: brake pad wear sensor – Mercedes ML W163. AUTODOC experts recommend:

- The replacement procedure is identical for both brake pad wear sensors on the same axle.
- 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.

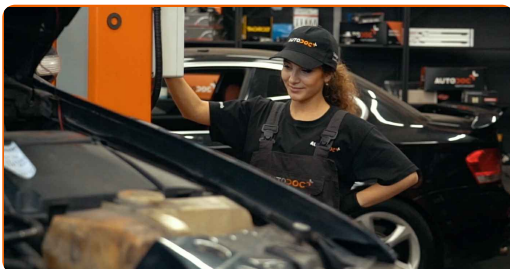
3

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:

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

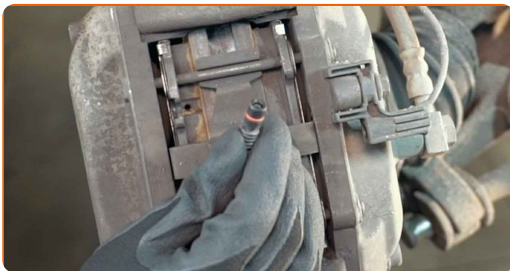
6

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 pad wear sensor – Mercedes ML W163. After applying the spray, wait a few minutes.

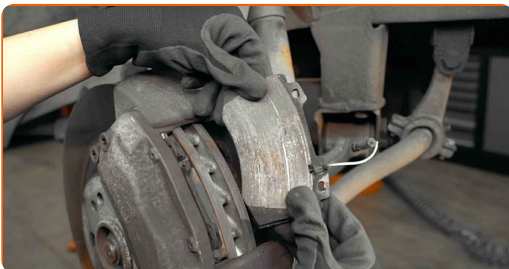
9

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



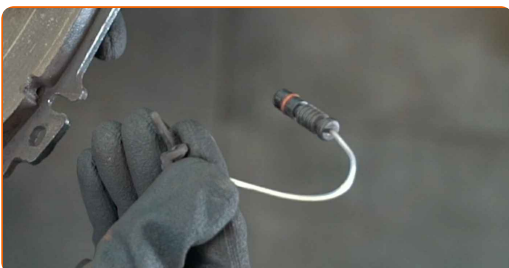
10

Remove the brake pads. Use a crowbar.



11

Remove the brake pad wear sensor from the brake pad.



12

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



Replacement: brake pad wear sensor – Mercedes ML W163. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

13

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



14

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



AUTODOC recommends:

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

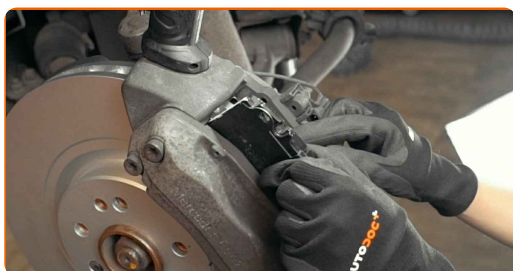
- 15** Treat the brake pads in the area where their surface comes into contact with the brake caliper bracket. Use anti-squeal paste.



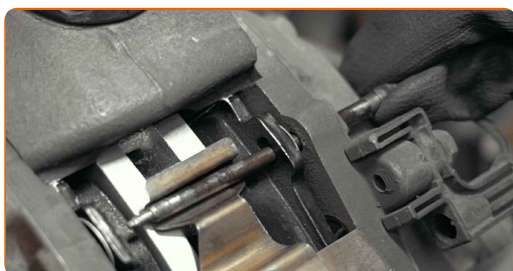
AUTODOC recommends:

- Make sure the disc surface is clean before installing the pads.

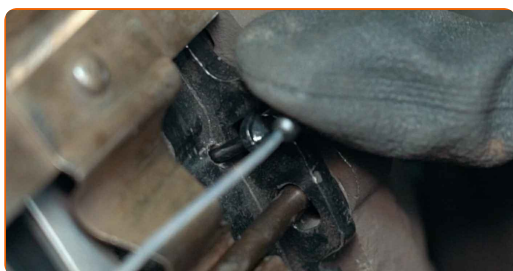
- 16** Install the brake pads.



- 17** Install the brake pads retaining clips. Use a pin punch. Use a rubber mallet.



- 18** Install the wear sensor on the brake pads.



19

Attach the connector of the brake pad wear sensor.



20

Clean the wheel rim mounting seat. Use a wire brush.

21

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

22

Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

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

23

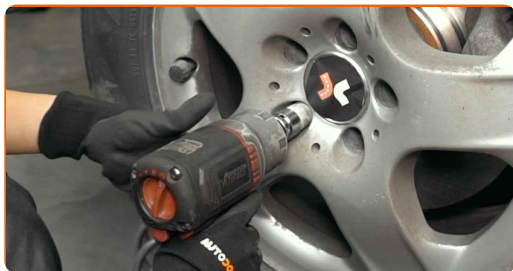
Install the wheel.



AUTODOC recommends:

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

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 wheel impact socket #17. Use a torque wrench. Tighten it to 150 Nm torque.



26 Remove the jacks and chocks.



Replacement: brake pad wear sensor – Mercedes ML W163. Tip:

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

27

Tighten the brake fluid reservoir cap. Close the hood.



WELL DONE! 

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