



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

## VIDEO TUTORIAL



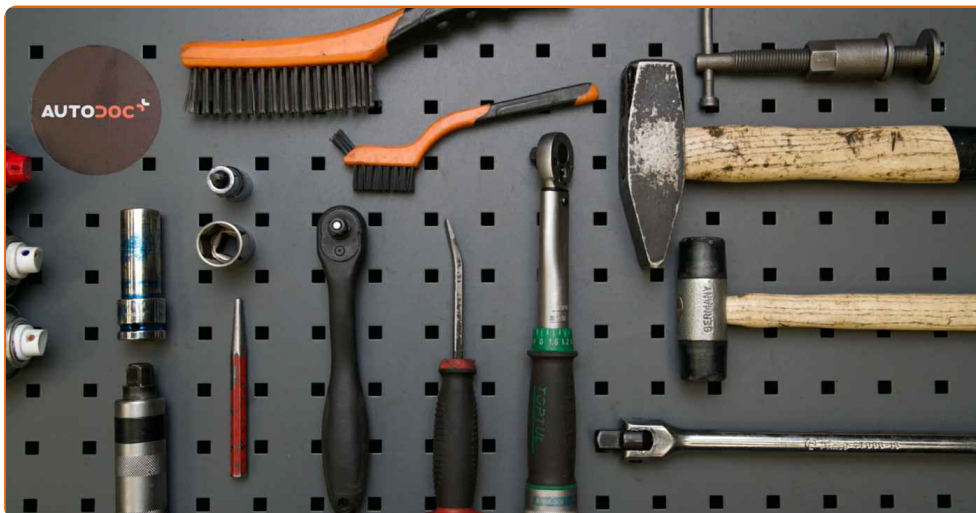
### Important!

This replacement procedure can be used for:

MERCEDES-BENZ M-Class (W163) ML 320 (163.154), MERCEDES-BENZ SL (R129) 280 2.8 (129.059), MERCEDES-BENZ SL (R129) 320 3.2 (129.064), MERCEDES-BENZ SL (R129) 500 5.0 (129.068), MERCEDES-BENZ S-Class Saloon (W220) S 320 (220.065, 220.165), MERCEDES-BENZ S-Class Saloon (W220) S 430 (220.070, 220.170), MERCEDES-BENZ S-Class Saloon (W220) S 500 (220.075, 220.175, 220.875), MERCEDES-BENZ S-Class Saloon (W220) S 280 (220.063, 220.163), MERCEDES-BENZ M-Class (W163) ML 430 (163.172), MERCEDES-BENZ S-Class Coupe (C215) CL 500 (215.375), MERCEDES-BENZ S-Class Coupe (C215) CL 600 (215.378), MERCEDES-BENZ S-Class Saloon (W220) S 55 AMG (220.073, 220.173), MERCEDES-BENZ M-Class (W163) ML 55 AMG (163.174), MERCEDES-BENZ S-Class Saloon (W220) S 320 CDI (220.026, 220.126), MERCEDES-BENZ S-Class Saloon (W220) S 600 (220.878, 220.178), (+ 13)

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE PADS – 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 pads – Mercedes ML W163. AUTODOC experts recommend:

- Perform the replacement of brake pads in complete set for each axis. This provides effective braking.
- The replacement procedure is identical for all brake pads 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.

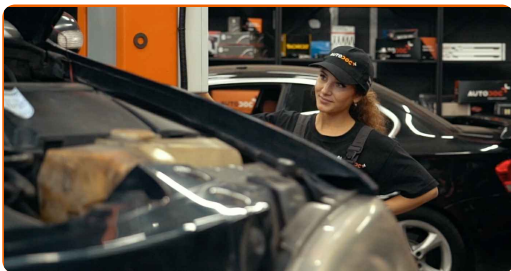


**2** Secure the wheels with chocks.

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



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



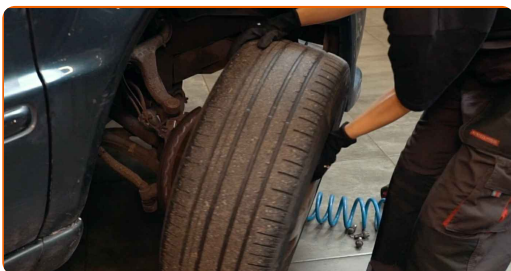
**5** Unscrew the wheel bolts.



**AUTODOC recommends:**

- 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.

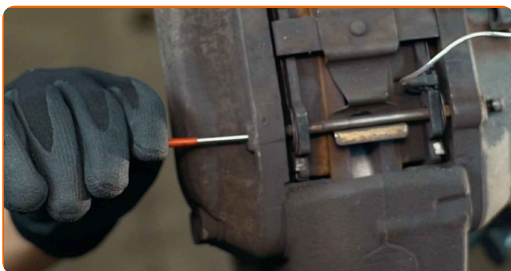


AUTODOC recommends:

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

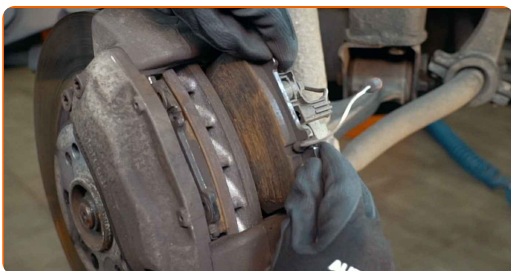
9

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



10

Remove the brake pads. Use a crowbar.



Replacement: brake pads – Mercedes ML W163. Tip from AUTODOC:

- Measure the brake disc thickness. Upon reaching the wear limit the part must be replaced.

11

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



AUTODOC recommends:

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

12

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



AUTODOC recommends:

- Replacement: brake pads – Mercedes ML W163. 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**

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



**Replacement: brake pads – Mercedes ML W163. AUTODOC experts recommend:**

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

**15**

Install the brake pads.



**Replacement: brake pads – Mercedes ML W163. Tip:**

- Make sure the pads are installed with linings facing the disc.



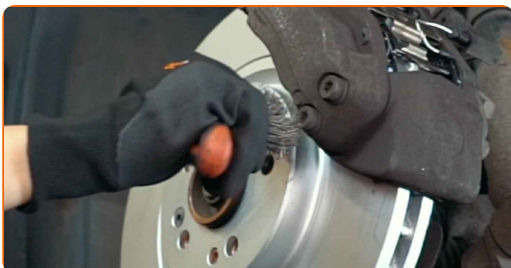
**16** Install the brake pads retaining clips. Use a rubber mallet.



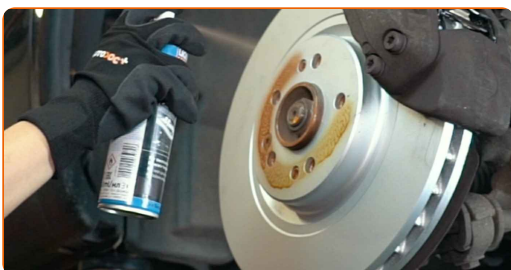
**17** Attach the connector of the brake pad wear sensor.



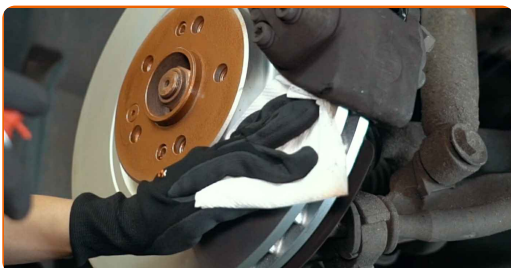
**18** Clean the wheel rim mounting seat. Use a wire brush.



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



**20** Clean the brake disk surface. Use a brake cleaner.

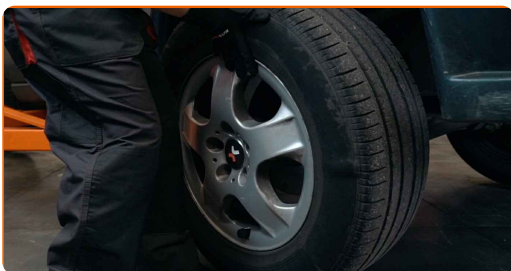


**AUTODOC recommends:**

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

**21**

Install the wheel.



**AUTODOC recommends:**

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

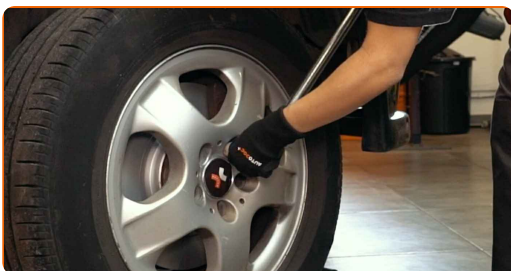
**22**

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



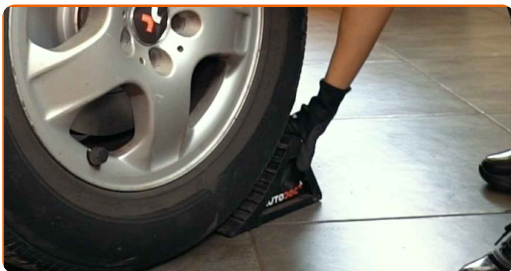
**23**

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.



24

Remove the jacks and chocks.



**AUTODOC recommends:**

- 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.

25

Tighten the brake fluid reservoir cap. Close the hood.



**AUTODOC recommends:**

- Slow down smoothly for first 150-200 km after the brake pads replacement. Avoid unnecessary and sharp braking to a stop.

**WELL DONE!** 

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