



How to change rear
brake pads on
**MERCEDES-BENZ S-
Class Saloon (W221)** –
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:

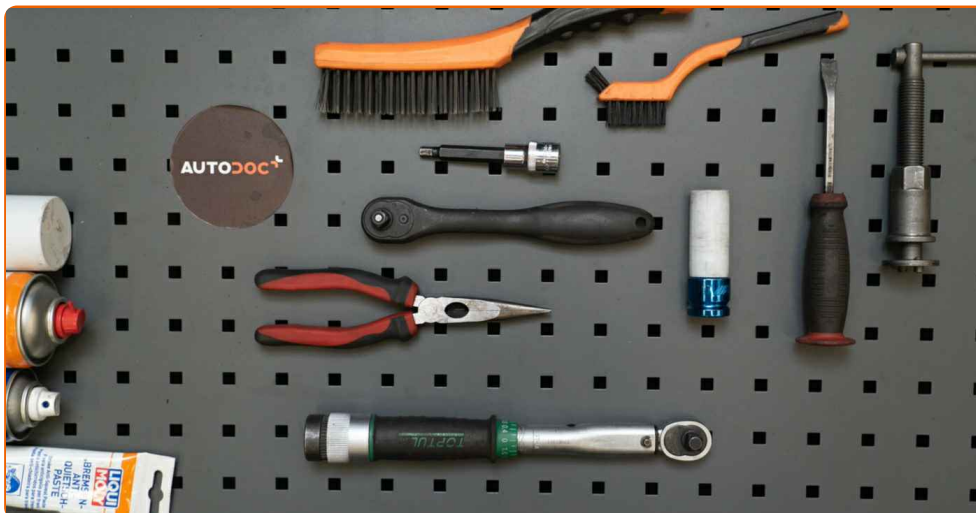
MERCEDES-BENZ S-Class Saloon (W221) S 400 Hybrid (221.095, 221.195),
 MERCEDES-BENZ S-Class Saloon (W221) S 250 CDI (221.003, 221.103), MERCEDES-
 BENZ S-Class Saloon (W221) S 350 BlueTec (221.026, 221.126), MERCEDES-BENZ S-
 Class Saloon (W221) S 350 BlueTEC 4-matic (221.083, 221.183), MERCEDES-BENZ S-
 Class Saloon (W221) S 350 CGI (221.057, 221.157), MERCEDES-BENZ S-Class Saloon
 (W221) S 350 CGI 4-matic (221.082, 221.182), MERCEDES-BENZ S-Class Saloon
 (W221) S 500 CGI (221.073, 221.173), MERCEDES-BENZ S-Class Saloon (W221) S
 500 CGI 4-matic (221.094, 221.194), MERCEDES-BENZ S-Class Saloon (W221) S 350
 CDI, MERCEDES-BENZ S-Class Saloon (W221) S 350 (221.056, 221.156), MERCEDES-
 BENZ S-Class Saloon (W221) S 500 (221.071, 221.171), MERCEDES-BENZ S-Class
 Saloon (W221) S 320 CDI (221.022, 221.122), MERCEDES-BENZ S-Class Saloon
 (W221) S 450 (221.070, 221.170), MERCEDES-BENZ S-Class Saloon (W221) S 450 4-
 matic (221.084, 221.184), MERCEDES-BENZ S-Class Saloon (W221) S 600 (221.176),
 (+ 11)

The steps may slightly vary depending on the car design.

Please note that this tutorial was created based on the replacement procedure for this car part on a car with a similar design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ E-Class Saloon (W211) E 270 CDI (211.016)

REPLACEMENT: BRAKE PADS – MERCEDES-BENZ S-CLASS SALOON (W221). TOOLS YOU NEED:



- Wire brush
- Nylon cleaning brush
- Brake cleaner
- Anti-squeal paste
- Copper grease
- Torque wrench
- HEX bit No.H7
- Wheel impact socket #17
- Brake caliper wind back tool
- Ratchet wrench
- Round-nose pliers
- Crow bar
- Wheel chock

Buy tools

Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221).
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-BENZ S-Class Saloon (W221) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet.

2 Connect the service equipment and switch the SBC system to service mode.

Please note!

- Some vehicles may not have the SBC system.

3 Unscrew the brake fluid reservoir cap.



4 Secure the wheels with chocks.

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



6 Raise the rear of the car and secure on supports.

7 Unscrew the wheel bolts.



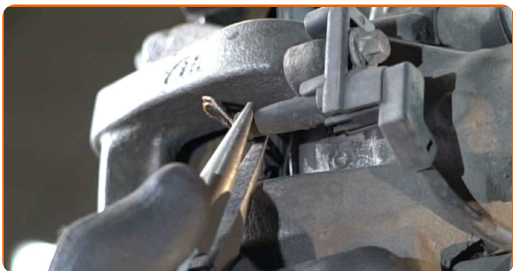
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
MERCEDES-BENZ S-Class Saloon (W221)

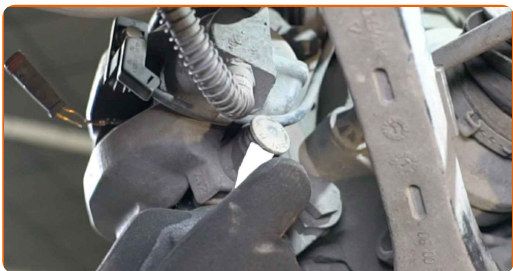
8 Remove the wheel.



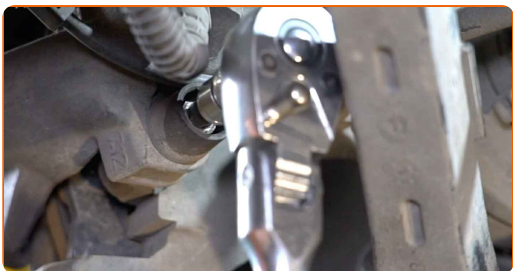
9 Detach the connector of the brake pad wear sensor. Use round-nose pliers.



10 Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.



11 Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.

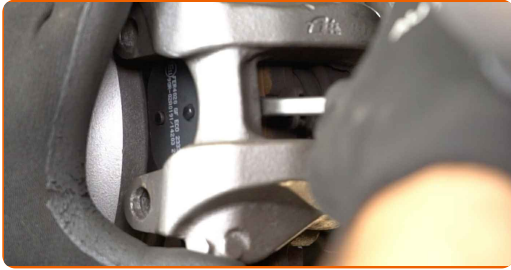


12 Detach the brake caliper retaining spring. Use a crowbar.



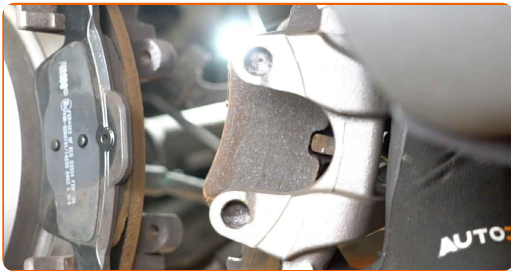
13

Spread the brake pads. Use a crowbar.



14

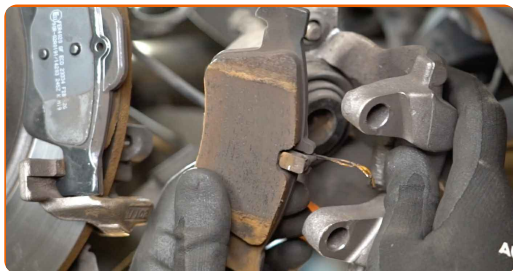
Remove the brake caliper.



Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221). Tip:

- 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.

15 Remove the brake pads.

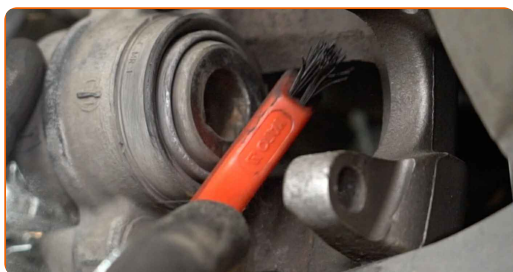


Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221). Tip from AUTODOC experts:

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

16 Disconnect the brake pads wear sensor.

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



AUTODOC recommends:

- Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221). After applying the spray, wait a few minutes.

18 Install the brake caliper wind back tool.



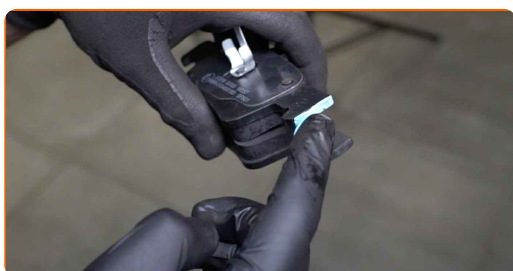
19 Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



AUTODOC recommends:

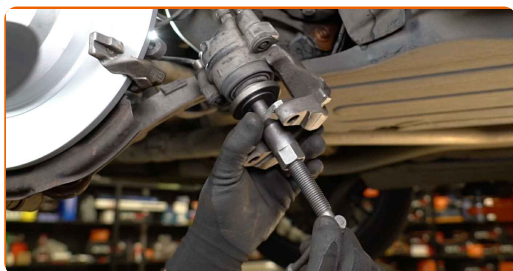
- Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221). After applying the spray, wait a few minutes.

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



21

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



Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221). Tip from AUTODOC:

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

22

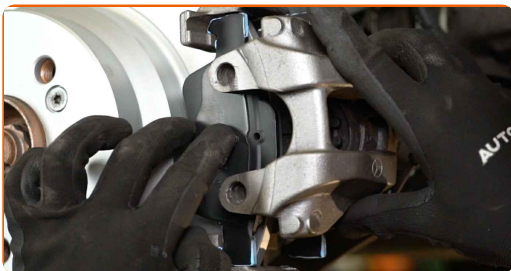
Install new brake pads.



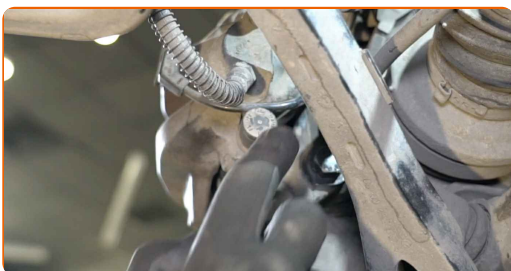
Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221). Professionals recommend:

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

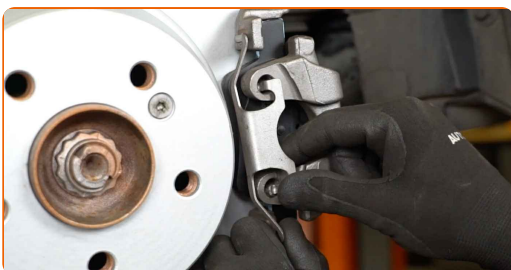
23 Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 28 Nm torque.



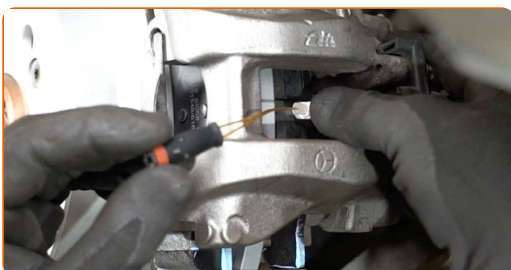
24 Install the dust boot caps of the brake caliper guide pins.



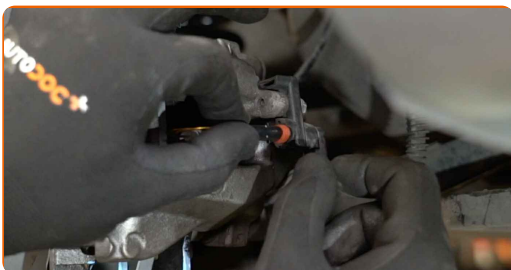
25 Install the brake caliper retaining spring.



26 Connect the brake pads wear sensor.

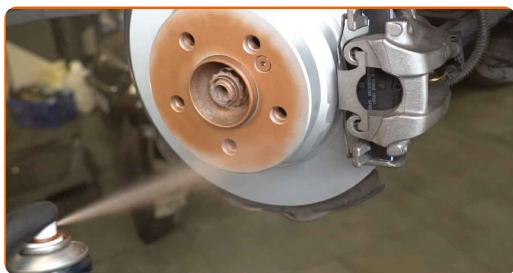


27 Attach the connector of the brake pad wear sensor.



28

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



29

Clean the brake disk surface. Use a brake cleaner.

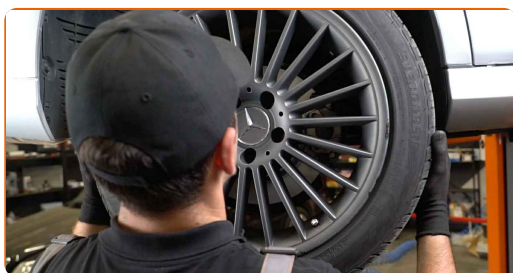


AUTODOC recommends:

- Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221). After applying the spray, wait a few minutes.

30

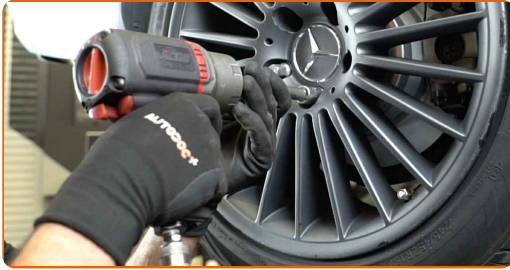
Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ S-Class Saloon (W221)

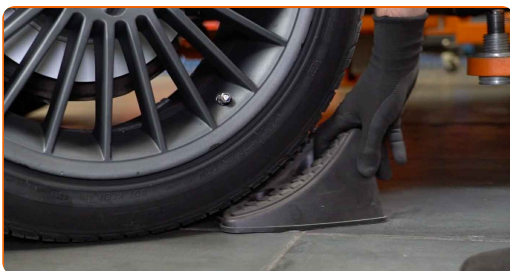
31 Screw in the wheel bolts. Use wheel impact socket #17.



32 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 130 Nm torque.



33 Remove the jacks and chocks.



34 Switch the SBC system to operating mode and disconnect the service equipment.

Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221).
AUTODOC experts recommend:

- Check the brake fluid level in the expansion tank and refill if necessary.

35

Tighten the brake fluid reservoir cap. Close the hood.



Replacement: brake pads – MERCEDES-BENZ S-Class Saloon (W221). Tip:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- 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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BRAKE PADS: A WIDE SELECTION

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