



How to change rear
brake pads on **BMW 8**
(E31) – 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:

BMW 8 (E31) 850i / Ci 5.0, BMW 8 (E31) 850Ci 5.4, BMW 8 (E31) 850CSi 5.6, BMW 8 (E31) 840Ci 4.4

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW X3 (E83) 2.5 i

REPLACEMENT: BRAKE PADS – BMW 8 (E31).
AUTODOC EXPERTS RECOMMEND:



- Wire brush
- Nylon cleaning brush
- Brake cleaner
- Copper grease
- Anti-squeal paste
- 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 – BMW 8 (E31). Professionals 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.
- All work should be done with the engine stopped.

REPLACEMENT: BRAKE PADS – BMW 8 (E31). RECOMMENDED SEQUENCE OF STEPS:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.

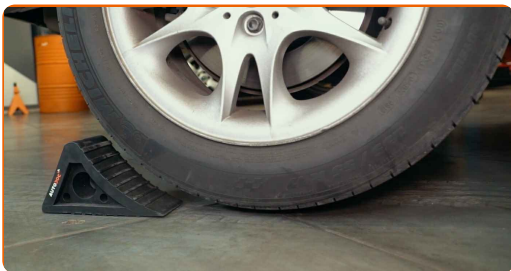


2 Secure the wheels with chocks.

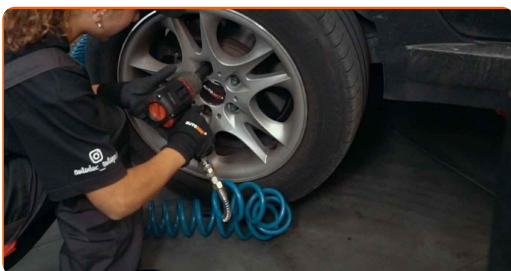
3 Loosen the wheel mounting bolts. Use wheel impact socket #17.



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



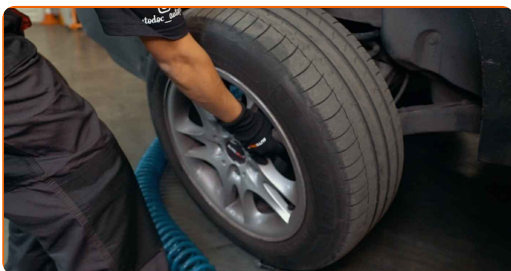
5 Unscrew the wheel bolts.



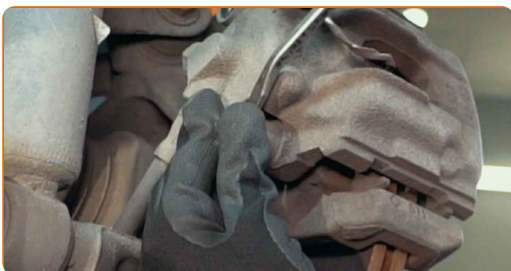
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
BMW 8 (E31)

6 Remove the wheel.



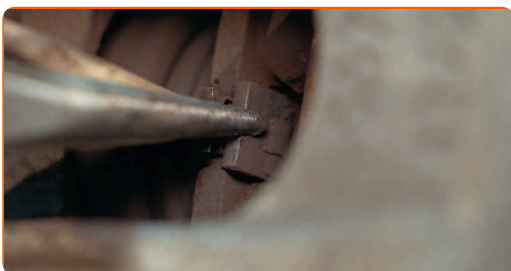
7 Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.



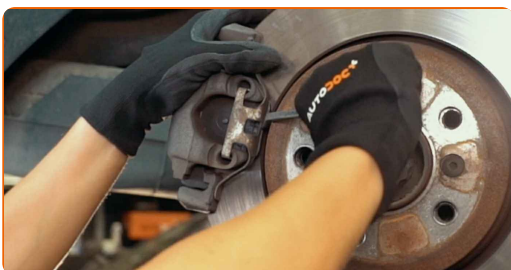
8 Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



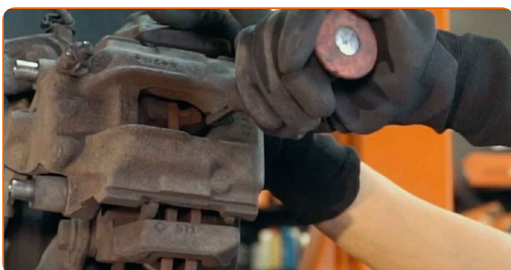
9 Disconnect the brake pads wear sensor. Use round-nose pliers.



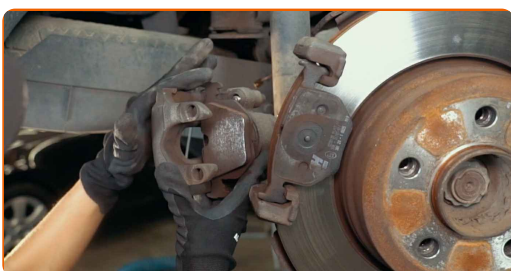
10 Detach the brake caliper retaining spring. Use a crowbar.



11 Spread the brake pads. Use a crowbar.



12 Remove the brake caliper.



Replacement: brake pads – BMW 8 (E31). Tip from AUTODOC experts:

- 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.

13

Remove the brake pads.

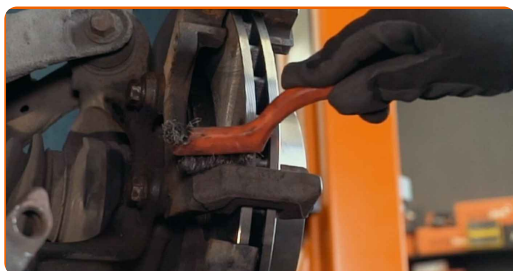


Replacement: brake pads – BMW 8 (E31). AUTODOC recommends:

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

14

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

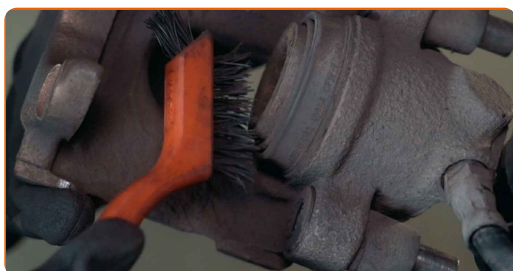


AUTODOC recommends:

- Replacement: brake pads – BMW 8 (E31). After applying the spray, wait a few minutes.

15

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



AUTODOC recommends:

- After applying the spray, wait a few minutes.

16

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



- 17** 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 – BMW 8 (E31). AUTODOC recommends:

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

- 18** Install new brake pads.



Replacement: brake pads – BMW 8 (E31). Tip from AUTODOC experts:

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

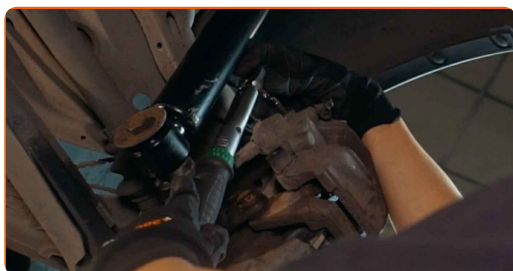
- 19** Install the brake caliper and fix it.



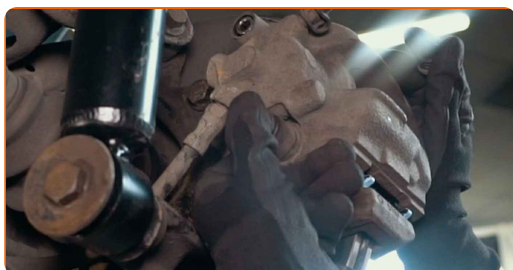
20 Install the brake caliper retaining spring.



21 Tighten the brake caliper fasteners. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



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



23 Connect the brake pads wear sensor. Use round-nose pliers.

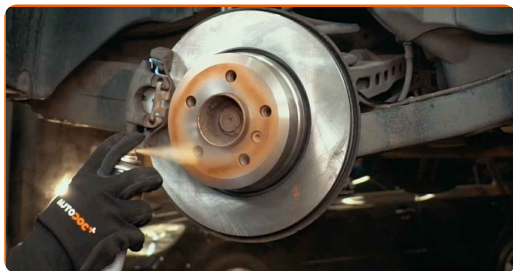


24 Clean the wheel rim mounting seat. Use a wire brush.



25

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



26

Clean the brake disk surface. Use a brake cleaner.

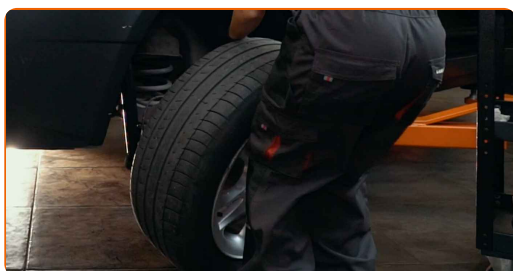


AUTODOC recommends:

- Replacement: brake pads – BMW 8 (E31). After applying the spray, wait a few minutes.

27

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW 8 (E31)

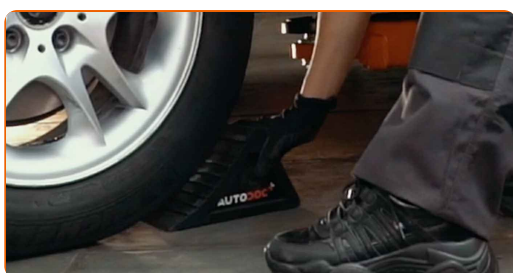
28 Screw in the wheel bolts. Use wheel impact socket #17.



29 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 140 Nm torque.



30 Remove the jacks and chocks.



Replacement: brake pads – BMW 8 (E31). Professionals recommend:

- 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.

31

Tighten the brake fluid reservoir cap. Close the hood.



Replacement: brake pads – BMW 8 (E31). 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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BRAKE PADS: A WIDE SELECTION

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