

VIDEO TUTORIAL



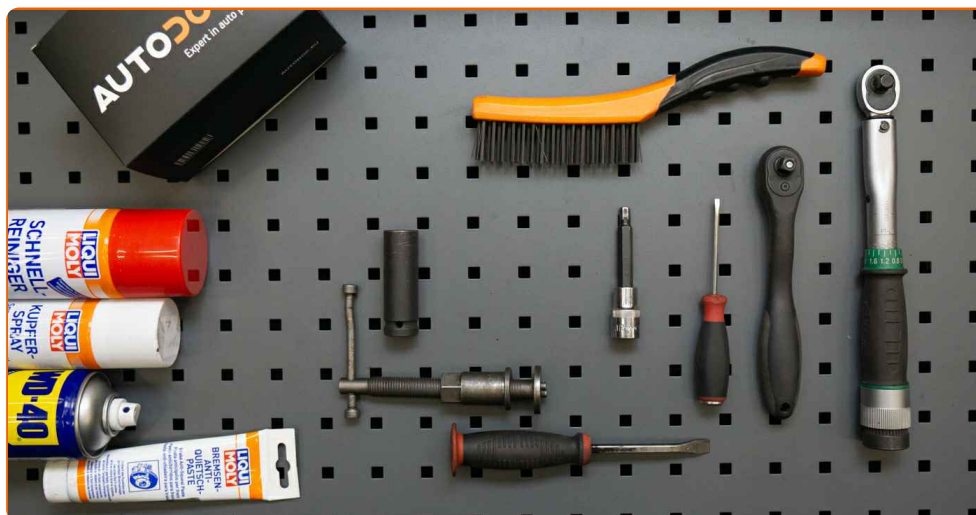
Important!

This replacement procedure can be used for:

BMW 3 Touring (E91) 316d 2.0, BMW 1 Coupe (E82) 118d 2.0, BMW 1 Hatchback (E81) 116i 1.6, BMW 1 Hatchback (E81) 120d 2.0, BMW 3 Saloon (E90) 320i 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 1 Hatchback (E81) 118i 2.0, BMW 1 Hatchback (E81) 118d 2.0, BMW 1 Convertible (E88) 120i 2.0, BMW 1 Convertible (E88) 125i 3.0, BMW 1 Convertible (E88) 118i 2.0, BMW 3 Saloon (E90) 316i 1.6, BMW 1 Convertible (E88) 118d 2.0, BMW 1 Hatchback (E81) 120i 2.0, BMW 1 Coupe (E82) 120d 2.0, (+ 8)

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE PADS – BMW E90. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Anti-squeal paste
- Copper grease
- HEX bit no.H7.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Flat Screwdriver
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: brake pads – BMW E90. Tip from AUTODOC experts:

- 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 – BMW E90 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

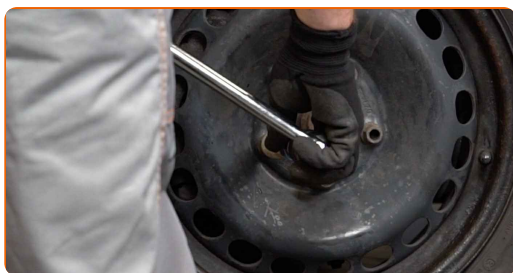
Open the bonnet. Unscrew the brake fluid reservoir cap.

**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.
BMW E90

6

Remove the wheel.



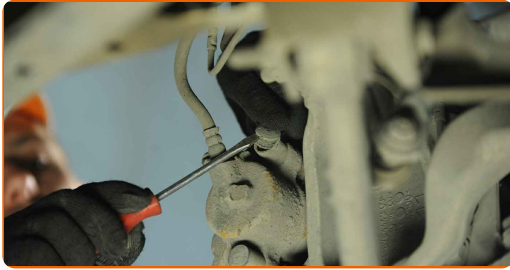
7

Detach the brake caliper retaining spring. Use a flat screwdriver.



8

Remove the dust boot caps of the brake caliper guide pins. Use a flat screwdriver.



9

Spread the brake pads. Use a crowbar.

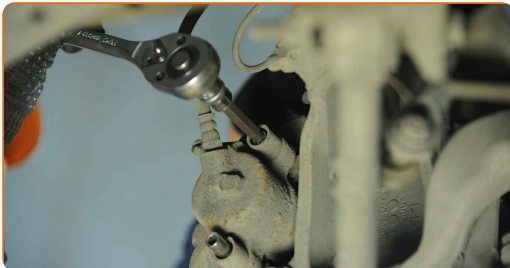


10

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

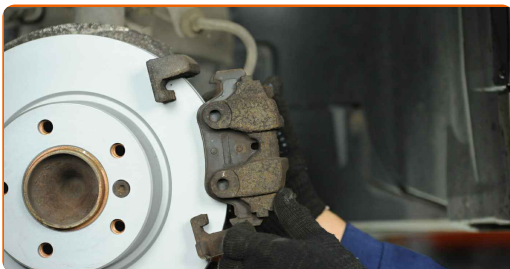
11

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



12

Remove the brake caliper.

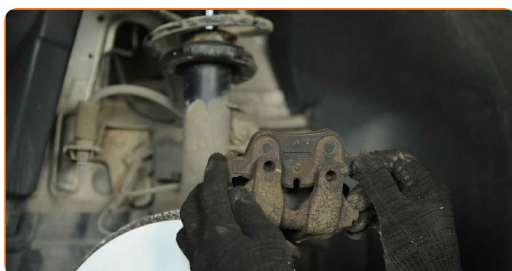


Replacement: brake pads – BMW E90. AUTODOC recommends:

- 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 E90. Tip:

- 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.

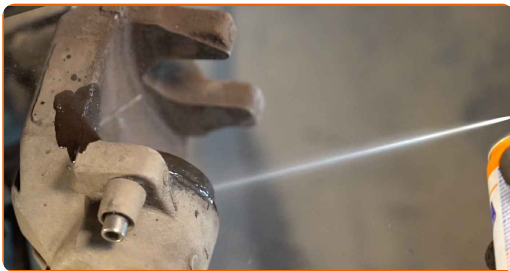


AUTODOC recommends:

- Replacement: brake pads – BMW E90. After applying the spray, wait a few minutes.

15

Treat the brake caliper piston. Use a brake cleaner.



AUTODOC recommends:

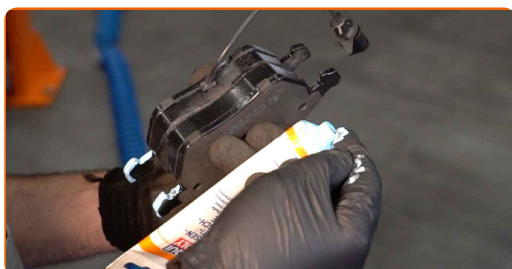
- After applying the spray, wait a few minutes.

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 E90. Tip:

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

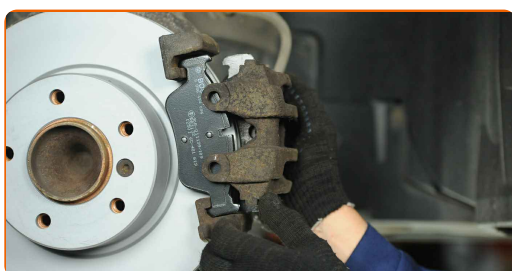
- 18** Install new brake pads.



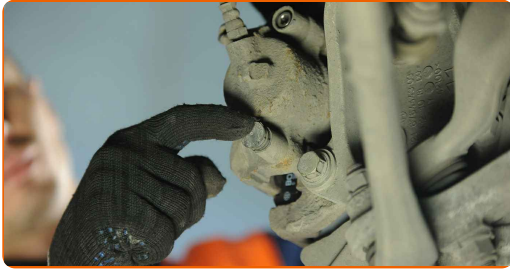
Replacement: brake pads – BMW E90. AUTODOC recommends:

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

- 19** Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



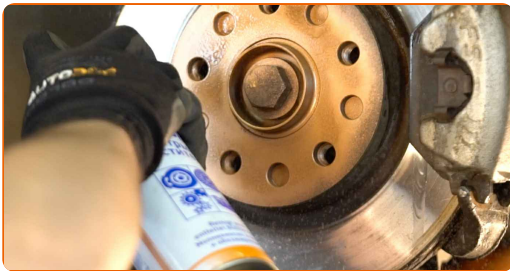
- 20 Install the dust boot caps of the brake caliper guide pins.



- 21 Install the brake caliper retaining spring. Use a flat screwdriver.



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



- 23 Clean the brake disk surface. Use a brake cleaner.

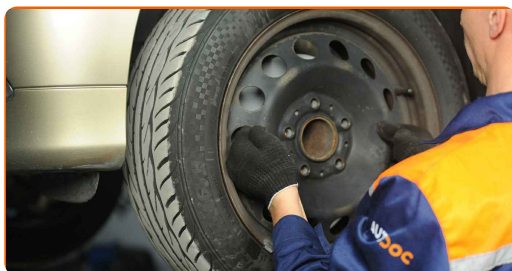


AUTODOC recommends:

- Replacement: brake pads – BMW E90. After applying the spray, wait a few minutes.

24

Install the wheel.

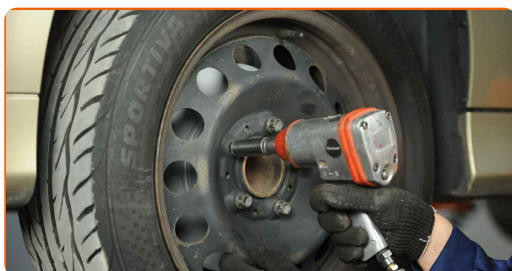


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW E90

25

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



26

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 120 nm torque.



Replacement: brake pads – BMW E90. AUTODOC recommends:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.