

VIDEO TUTORIAL



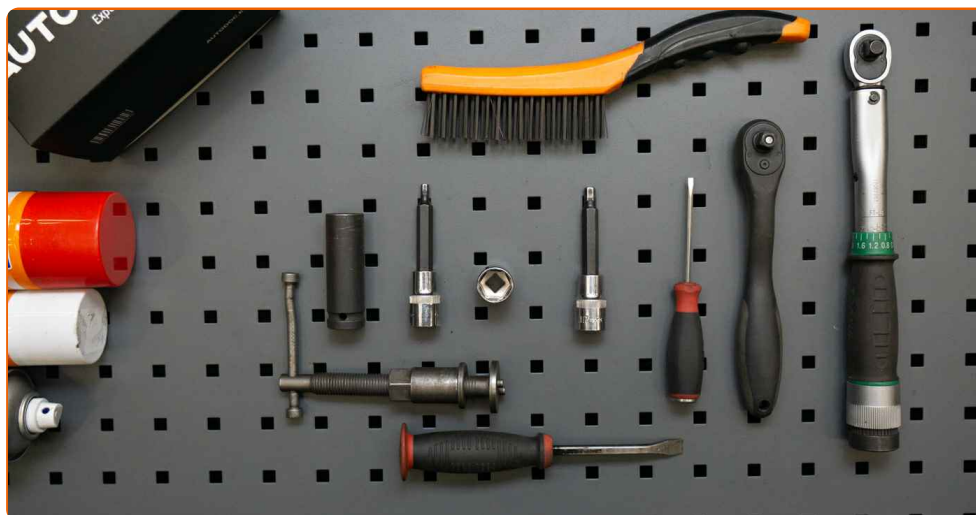
Important!

This replacement procedure can be used for:

BMW 3 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 1 Coupe (E82) 118d 2.0, BMW 3 Coupe (E92) 318i 2.0, BMW 3 Convertible (E93) 318i 2.0, BMW 3 Convertible (E93) 325d 3.0, 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) 325i 2.5, BMW 3 Saloon (E90) 330i 3.0, BMW 3 Saloon (E90) 320d 2.0, (+ 62)

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW E90. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Sealant
- Drive socket # 18
- HEX bit no.H6.
- 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

AUTODOC recommends:

- Replace the brake disks on the car BMW E90 in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- 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.

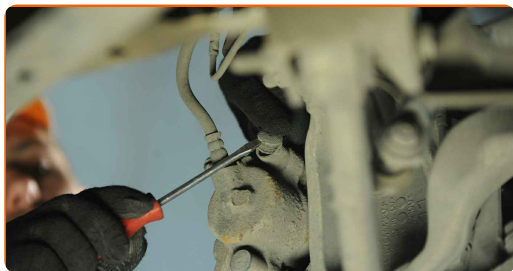


7

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

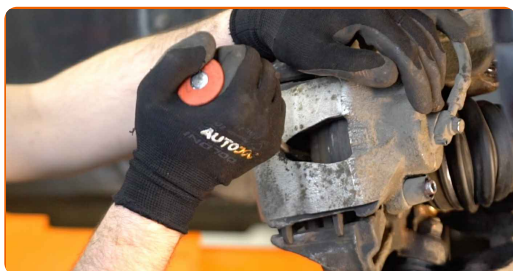
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Remove the dust boot caps of the brake caliper guide pins. Use a flat screwdriver.



9

Spread the brake pads. Use a crowbar.

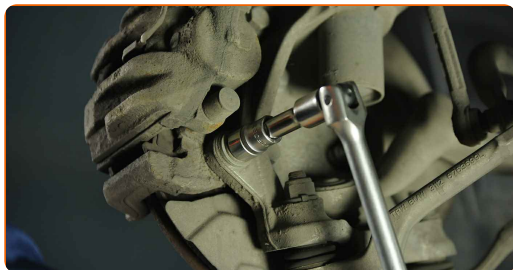


10

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.

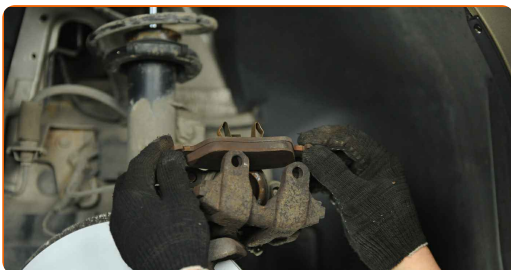


Replacement: brake discs – BMW E90. AUTODOC experts recommend:

- 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.

**14**

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



15

Unscrew the caliper bracket fastening. Use a drive socket #18. Use a ratchet wrench.



16

Remove the fastening bolts (2 pieces).

17

Remove the caliper bracket.

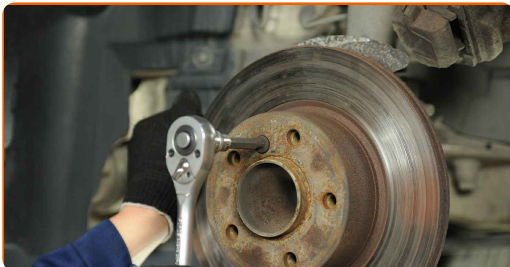


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Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.

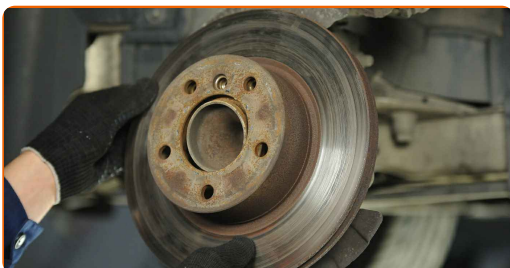
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Unscrew the brake disc fastening. Use HEX No.H6. Use a ratchet wrench.



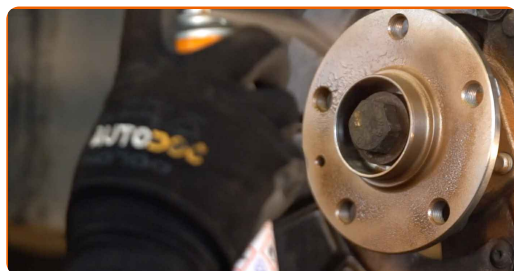
20

Remove the brake disc.



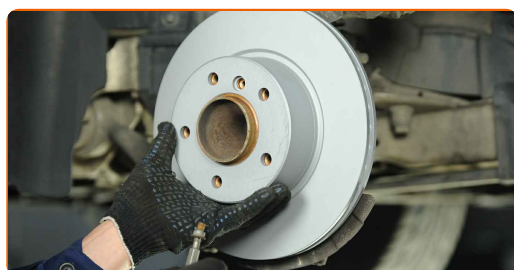
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Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



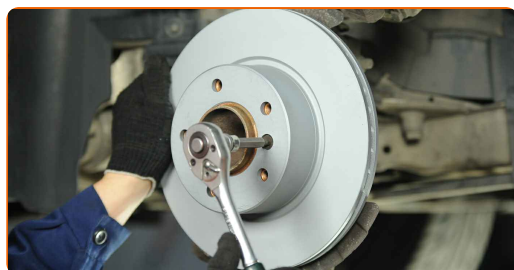
22

Install the brake disc.



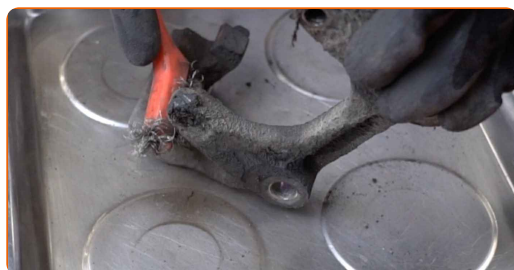
23

Tighten the brake disc fastening. Use HEX No.H6. Use a torque wrench. Tighten it to 16 Nm torque.



24

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

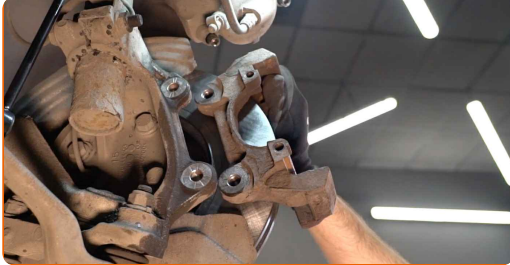


AUTODOC recommends:

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

25 Treat the fastening bolts. Use a sealant.

26 Install the brake caliper bracket.

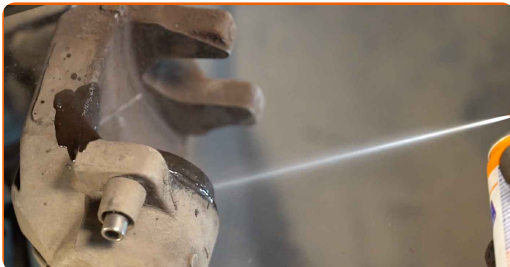


27 Install the fastening bolts (2 pieces).

28 Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



29 Treat the brake caliper piston. Use a brake cleaner.

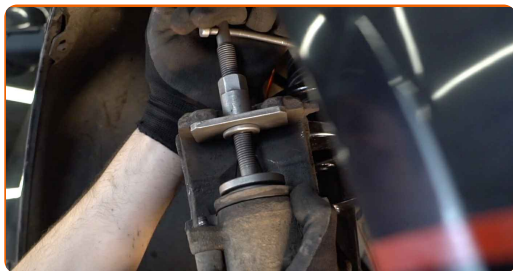


Replacement: brake discs – BMW E90. AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

30

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



31

Install the brake pads.



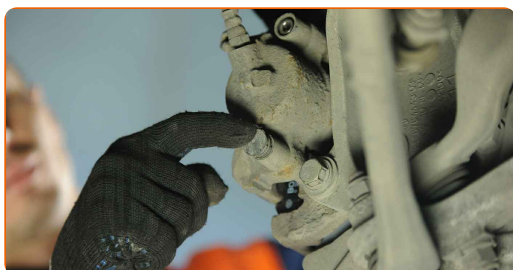
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Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



33

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



34

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

