



How to change rear  
brake discs on **BMW E82**  
– replacement guide

## VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:

BMW 1 Coupe (E82) 118d 2.0, BMW 1 Coupe (E82) 120d 2.0, BMW 1 Convertible (E88) 120i 2.0, BMW 1 Convertible (E88) 125i 3.0, BMW 1 Coupe (E82) 125i 3.0, BMW 1 Convertible (E88) 118i 2.0, BMW 1 Convertible (E88) 120d 2.0, BMW 1 Convertible (E88) 118d 2.0, BMW 1 Coupe (E82) 120i 2.0, BMW 1 Convertible (E88) 128i 3.0

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The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW E82. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Anti-squeal paste
- Copper grease
- Drive socket # 16
- HEX bit no.H6.
- HEX bit no.H7.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Tap wrench
- Impact screwdriver
- Crow bar
- Fender cover
- Wheel chock

**BUY TOOLS**

### Replacement: brake discs – BMW E82. Professionals recommend:

- Replace the brake discs on the car BMW E82 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 E82 – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

**1**

Open the bonnet.

**2**

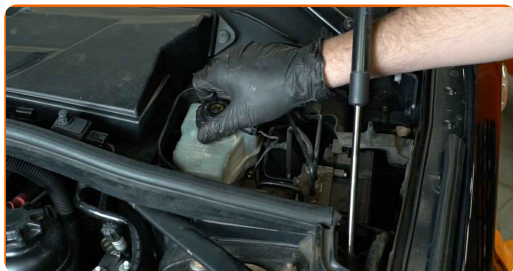
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

**3**

Remove the wiper arm cover.



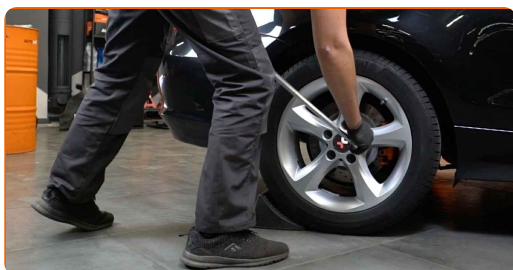
4 Unscrew the brake fluid reservoir cap.



5 Secure the wheels with chocks.



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



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



8 Unscrew the wheel bolts.

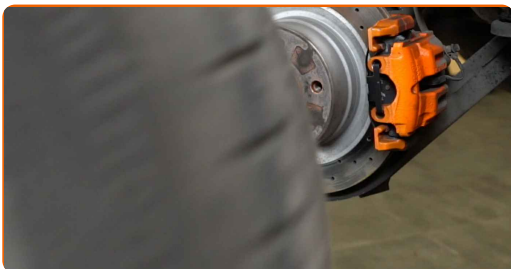


Replacement: brake discs – BMW E82. AUTODOC recommends:

- To avoid injury, hold up the wheel when unscrewing the bolts.

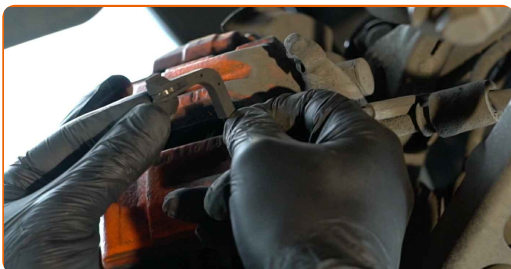
9

Remove the wheel.



10

Disconnect the brake pads wear sensor. Use a crowbar.

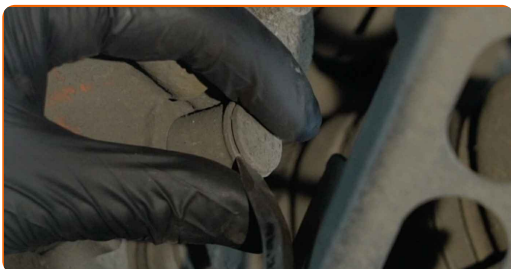


Please note!

- Some cars are not equipped with the brake pad wear sensor.

11

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



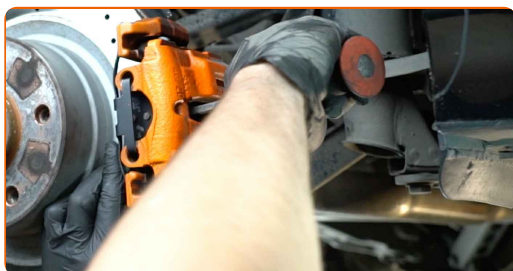
12

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



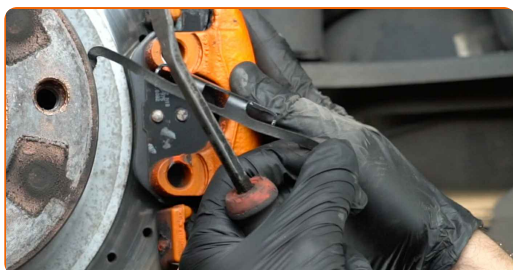
13

Spread the brake pads. Use a crowbar.



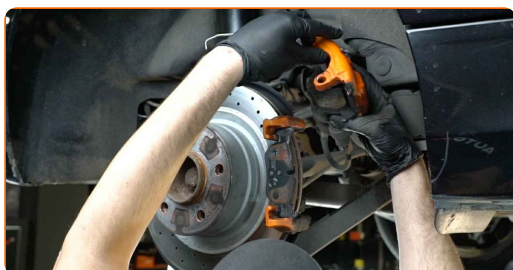
14

Detach the brake caliper retaining spring. Use a crowbar.



15

Remove the brake caliper.



Replacement: brake discs – BMW E82. 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.

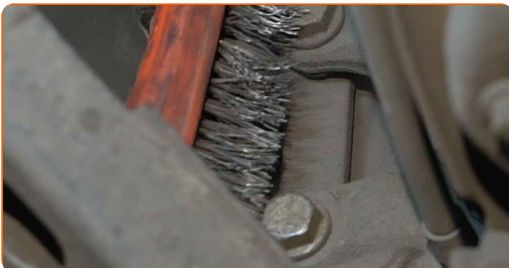
16

Remove the brake pads.



17

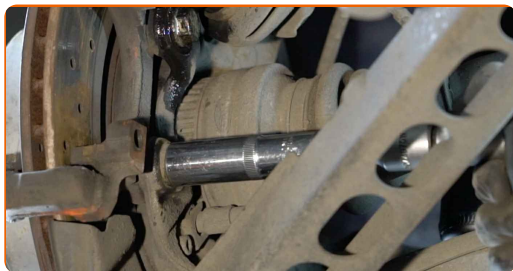
Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.





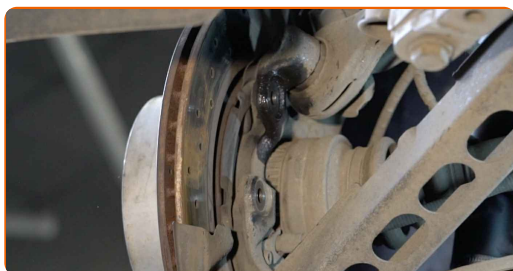
18

Unscrew the caliper bracket fastening. Use a drive socket #16. Use a tap wrench.



19

Remove the caliper bracket.



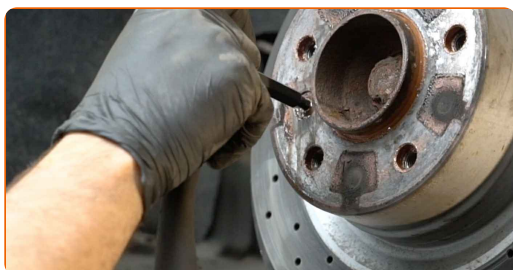
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Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.

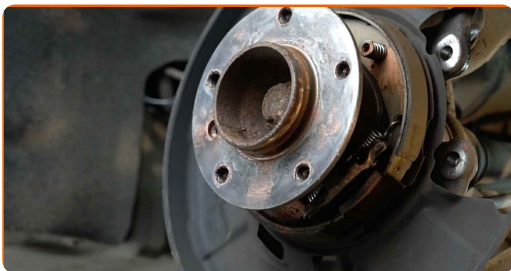


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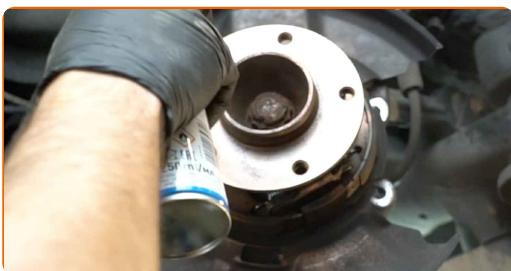
Unscrew the brake disc fastening. Use HEX No.H6. Use an impact screwdriver.



**22** Remove the brake disc.



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



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



**AUTODOC recommends:**

- Replacement: brake discs – BMW E82. After applying the spray, wait a few minutes.

**25** Install the brake disc.



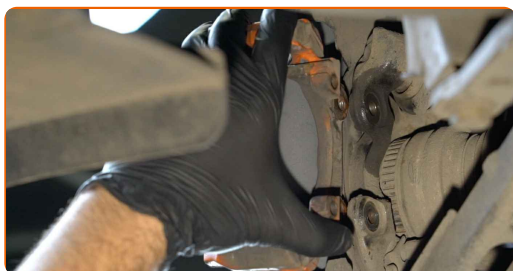
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Tighten the brake disc fastening. Use HEX No.H6. Use a torque wrench. Tighten it to 9 Nm torque.



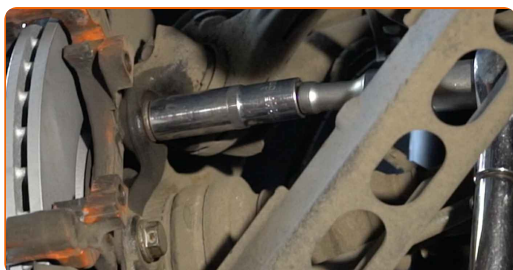
27

Install the brake caliper bracket.



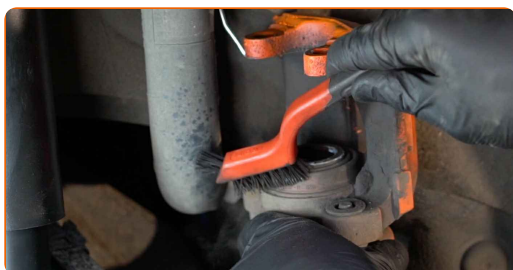
28

Tighten the brake caliper bracket. Use a drive socket #16. Use a torque wrench. Tighten it to 65 Nm torque.



29

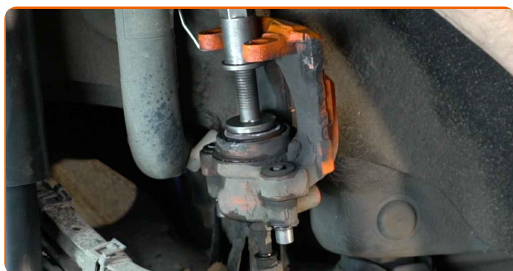
Treat the brake caliper piston. Use a brake cleaner.



### Replacement: brake discs – BMW E82. Tip:

- After applying the spray, wait a few minutes.

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



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

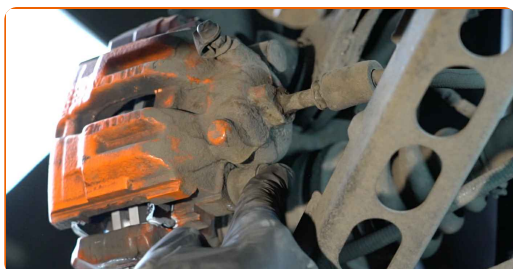
**32** Install the brake pads.



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



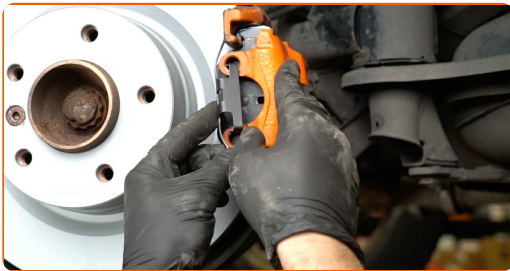
**34** Install the dust boot caps of the brake caliper guide pins.



**35** Connect the brake pads wear sensor.



**36** Install the brake caliper retaining spring.



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



**38** Clean the brake disc surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: brake discs – BMW E82. After applying the spray, wait a few minutes.

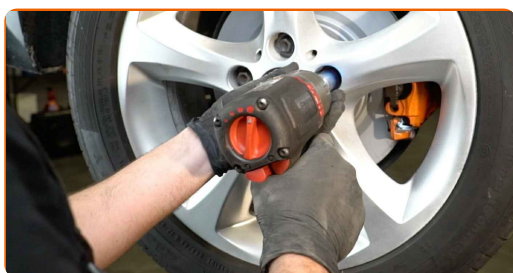
**39** Install the wheel.



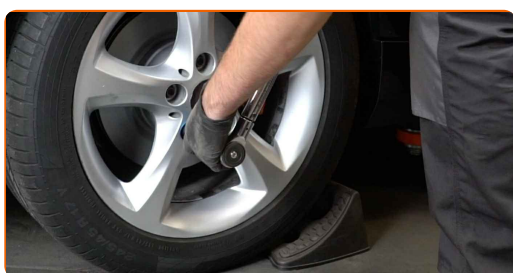
**Replacement: brake discs – BMW E82. Tip from AUTODOC:**

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

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



**41** 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.



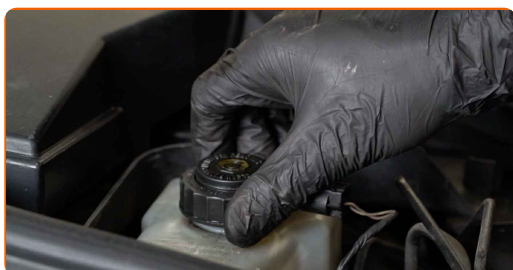
**42** Remove the jacks and chocks.

AUTODOC recommends:

- Important! Replacement: brake discs – BMW E82. Check the brake fluid level in the reservoir and top up if necessary.

43

Tighten the brake fluid reservoir cap.



44

Install the wiper arm cover.



45

Remove the fender protection cover.

46

Close the hood.



**AUTODOC recommends:**

- BMW E82 – Press the brake pedal several times with the engine shut down until you feel the resistance built up.

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