

## SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

### Important!

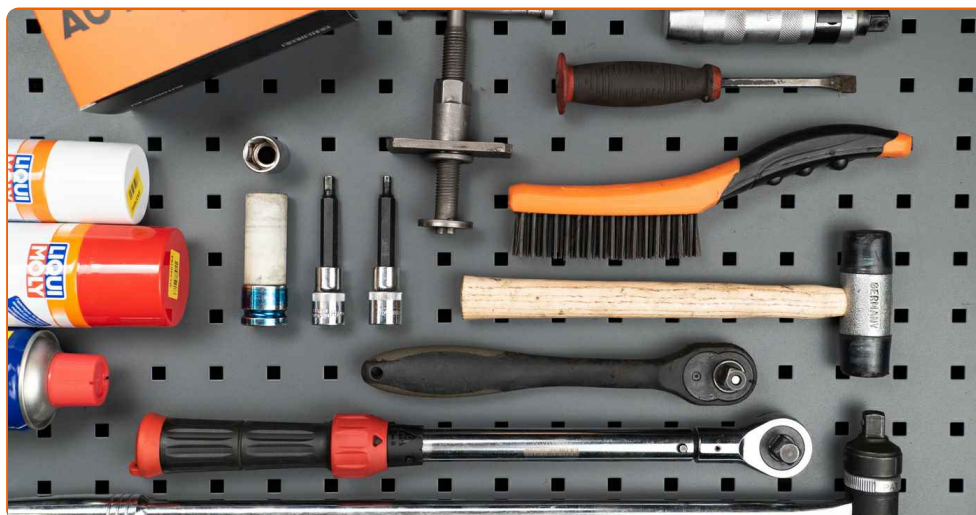
This replacement procedure can be used for:

BMW X1 (E84) xDrive 28 i

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 3 Coupe (E92) 330i 3.0

## REPLACEMENT: BRAKE DISCS – BMW X1 (E84). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- HEX bit No.H5.
- HEX bit No.H7.
- Drive socket # 17
- Wheel impact socket #17
- Brake caliper wind back tool
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Impact screwdriver
- Rubber mallet
- Fender cover
- Wheel chock

**Buy tools**

### Replacement: brake discs – BMW X1 (E84). Tip from AUTODOC experts:

- Replace the brake disks on the car BMW X1 (E84) 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.
- Warning! Shut down the engine before starting any work – BMW X1 (E84).

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

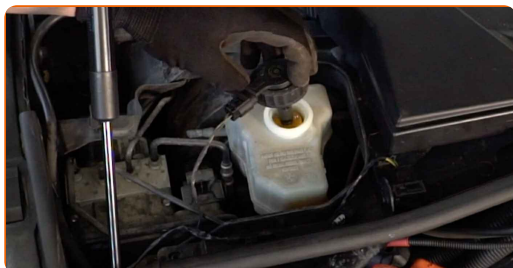
1 Open the bonnet.

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

3 Remove the wiper arm cover.

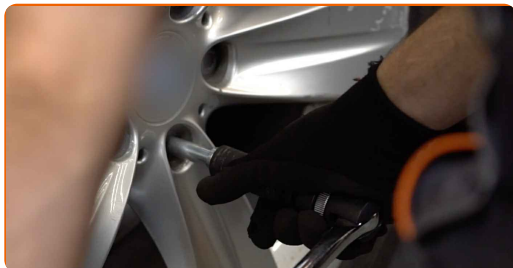


4 Unscrew the brake fluid reservoir cap.



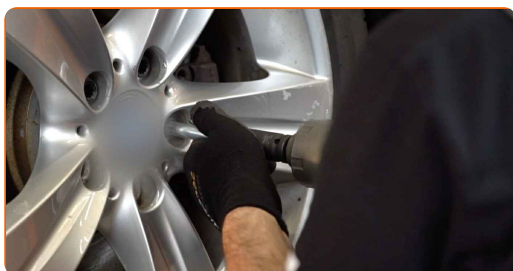
5 Secure the wheels with chocks.

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



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

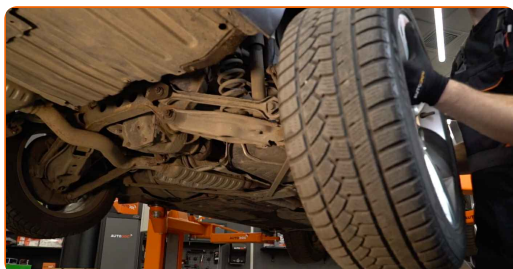
8 Unscrew the wheel bolts.



Replacement: brake discs – BMW X1 (E84). AUTODOC recommends:

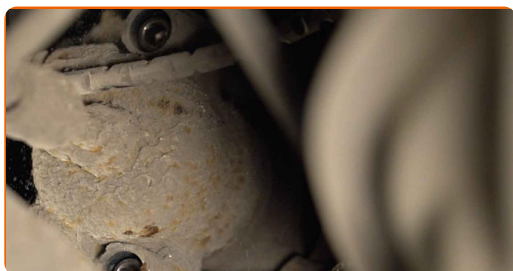
- To avoid injury, hold up the wheel when unscrewing the bolts.

9 Remove the wheel.



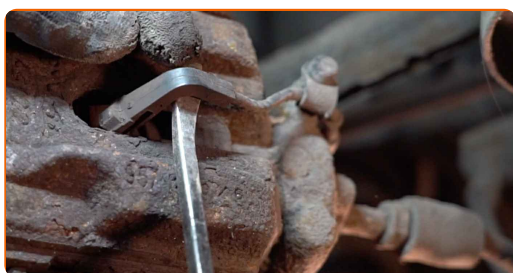
10

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



11

Disconnect the brake pads wear sensor. Use a crowbar.

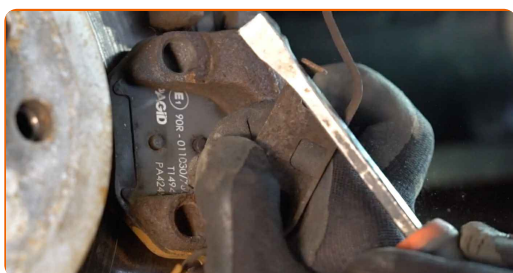


Please note!

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

12

Detach the brake caliper retaining spring. Use a crowbar.



13

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



14

Spread the brake pads. Use a crowbar.



15

Remove the brake caliper.



### Replacement: brake discs – BMW X1 (E84). 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.



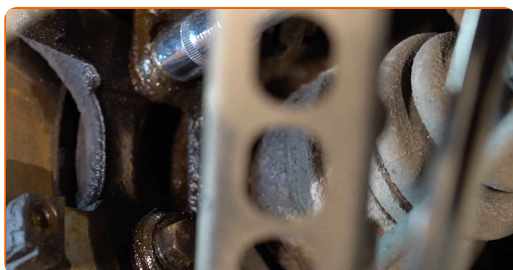
17

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



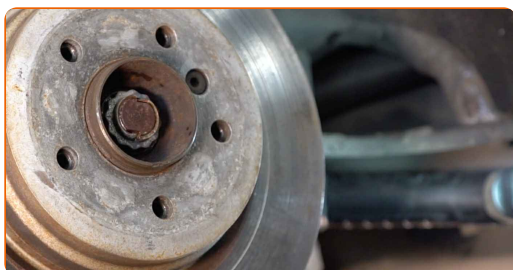
18

Unscrew the caliper bracket fastening. Use a drive socket #17. Use a tap wrench.



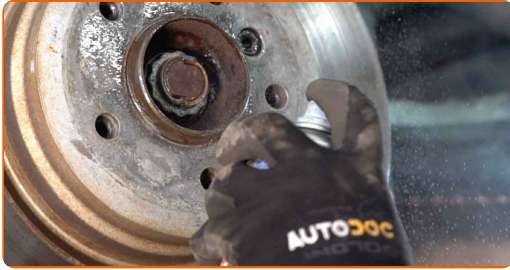
19

Remove the caliper bracket.



20

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



21

Unscrew the brake disc fastening. Use HEX No.H5. Use an impact screwdriver.



22

Remove the brake disc.



**Replacement: brake discs – BMW X1 (E84). Tip from AUTODOC:**

- If necessary, use a rubber mallet.

23

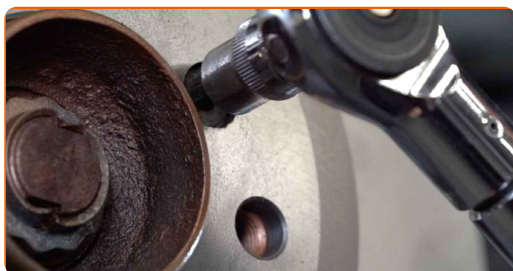
Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



**24** Install the brake disc.



**25** Tighten the brake disc fastening. Use HEX No.H5. Use a torque wrench. Tighten it to 16 Nm torque.



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



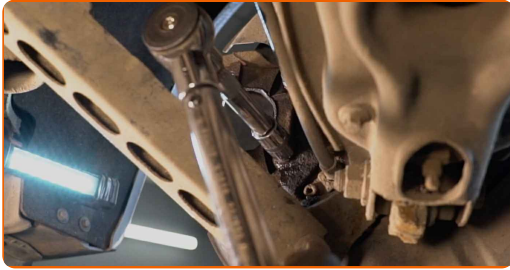
### AUTODOC recommends:

- Replacement: brake discs – BMW X1 (E84). After applying the spray, wait a few minutes.

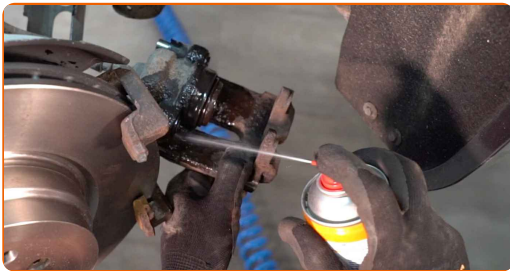
**27** Install the brake caliper bracket.



**28** Tighten the brake caliper bracket. Use a drive socket #17. Use a torque wrench. Tighten it to 65 Nm torque.



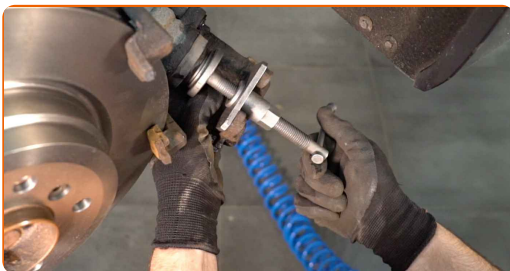
**29** Treat the brake caliper piston. Use a brake cleaner.



### Replacement: brake discs – BMW X1 (E84). Tip:

- 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.

