



How to change brake  
discs on a car –  
replacement tutorial

## VIDEO TUTORIAL



### WHAT YOU MIGHT NEED TO REPLACE THE DISCS:



- a set of new brake discs and pads
- a set of suitable tools for removing wheels and brake system components
- a wire brush and a WD-40 type agent
- brake cleaner
- brake caliper wind back tool
- respirator, gloves, goggles

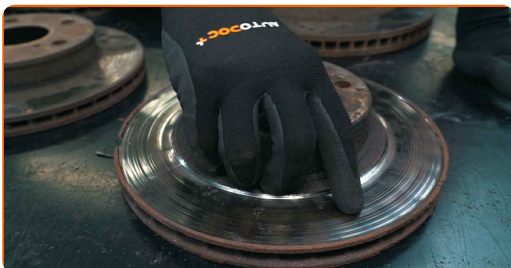
**BUY TOOLS**

### Reasons for replacing brake discs:

- normal wear
- reduced braking efficiency
- shuddering when braking
- excessive corrosion

1

Due to the constant impact of the pads, the disc becomes thinner over time



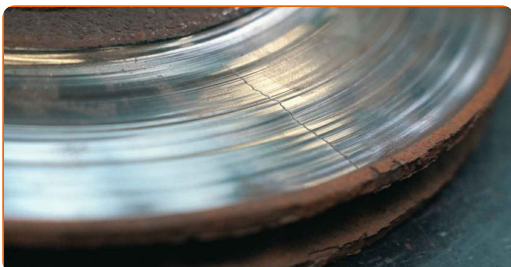
2

The acceptable wear limit is 2–4 mm

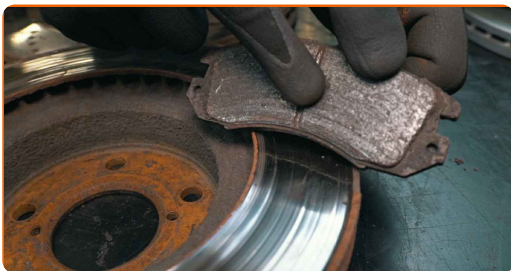


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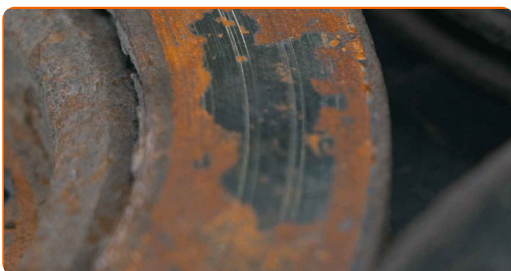
Worn discs may crack due to overheating



4 Uneven wear is caused by poor quality brake pads or dirt getting between the pads and the disc



5 Discs can also be damaged from the inside due to corrosion



6 Overheating may cause the disc to warp



7 A corroded wheel hub prevents the disc from contacting the hub surface evenly



8 This causes shuddering

**Important!**

- Brake discs should only be changed in pairs on each axle

9

Raise the car



**Please note!**

- When using a jack you also need to use jack stands

10

Raise the whole axle of the car



11

or perform the repair job first on one side of the axle, and then on the other

12

Be sure to use wheel chocks

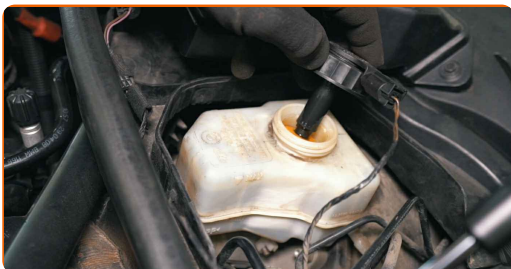


Please note!

- The procedure for replacing brake discs is almost identical on most vehicles

13

Check the level and condition of the brake fluid in the reservoir



14

Leave the reservoir open and make sure that no dirt can get inside it



Caution!

- When you're winding back the brake caliper pistons, brake fluid may overflow

15

Before starting the replacement, look at the design of the brake caliper and the way it is fastened



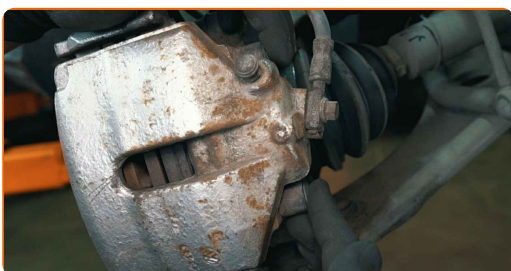
**AUTODOC recommends:**

- Please note that products from different manufacturers can vary in design

**16** Remove the caliper to access the brake disc



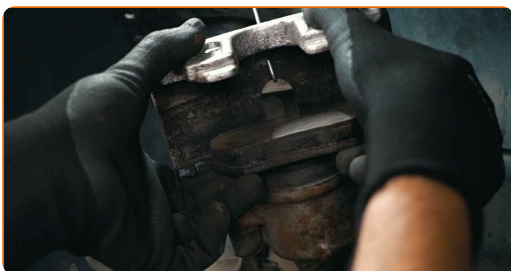
**17** When doing this, you might need to remove the retaining spring, guide pin caps and guide pins themselves, and the fasteners of the brake caliper bracket



**18** If the caliper is difficult to remove, use a suitable tool to force it apart or to pry it off



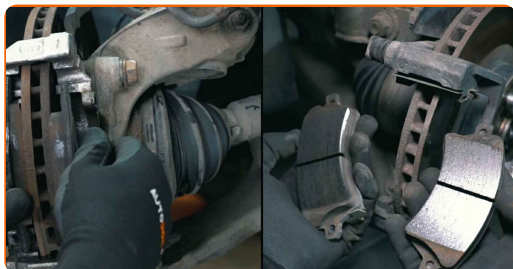
**19** Hang the brake caliper from the suspension or the car body



**Important!**

- Do not hang the caliper from the brake hose to avoid damaging the hose

**20** Remove the brake pads



**21** If the brake caliper has a bracket, remove it



**22** Clean and unscrew the bracket fasteners



**23** Clean and remove the fasteners that connect the brake disc to the wheel hub





Please note!

- On some cars, the brake discs have no fasteners and are pressed against the wheel hub by the wheel rims

**24** In this is the case, screw in at least one wheel fastener before removing the bracket to prevent the brake disc from falling

**25** Remove the brake disc



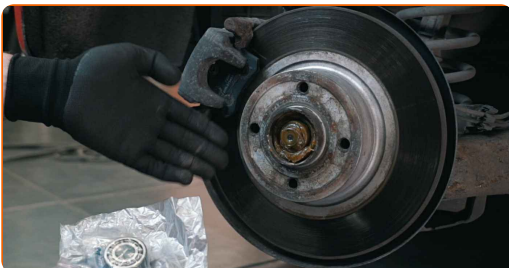
**26** On many cars, the brake discs have an integrated wheel bearing



**27** This means that to remove the disc, it's necessary, among other things, to unscrew the fastener of the bearing

**28** You can buy brake discs with integrated bearings and install them as they are

**29** Alternatively, you'll need to perform an additional job pressing new bearings into your new brake discs



**30**

If the brake disc fasteners are difficult to remove, use an impact screwdriver



**Please note!**

- The brake disc might be stuck to the hub, making it difficult to remove

**31**

If necessary, use a rubber mallet to hit the back of the disc lightly



**Caution!**

- Hold the brake disc firmly

**32**

After a few taps with the mallet, turn the brake disc together with the hub and repeat the steps



**33** Tap the area where the brake disc contacts the hub with a hammer



**34** Hit it gently, just enough to create vibration without damaging the bearing



**35** Clean the surface of the wheel hub



**36** Treat the surface with an anti-corrosion agent



**37** Read the brake disc manufacturer's instructions



Please note:

- You may need to clean the factory-applied protective grease from the discs first
- Brake discs that are ready for installation are usually marked "Ready to use"

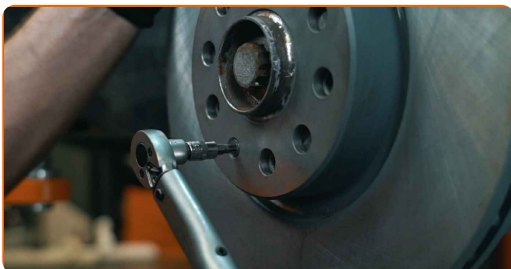
38

Install a new brake disc



39

Install and tighten the fasteners with a torque wrench to the manufacturer's recommended torque



40

Clean the brake caliper bracket



Important!

- The surfaces the brake pads are supposed to move along should be smooth and free from defects

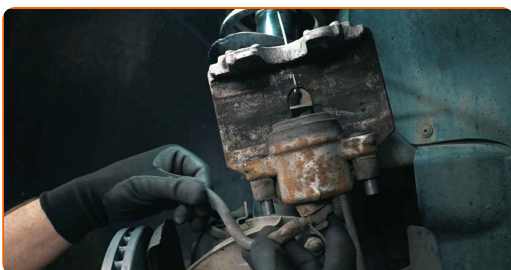
41 Install the brake caliper bracket



42 Tighten the fasteners with a torque wrench to the manufacturer's recommended torque



43 Check the condition of the brake hose and the brake caliper guide pins and piston boot



44 The guide pins should move freely within their seats



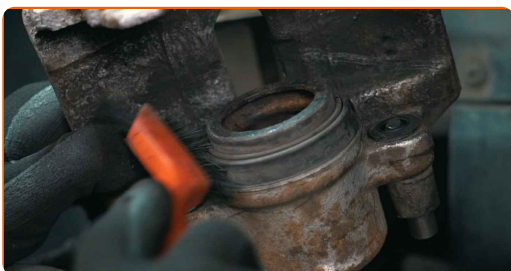
45 The caliper piston boot should not be damaged



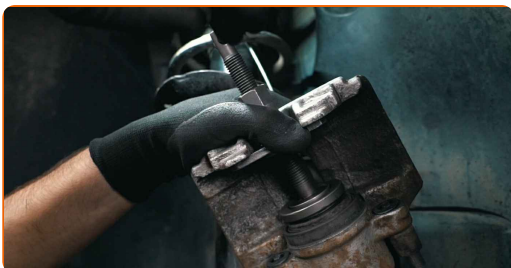
**46** If any defects are found, use a brake caliper repair kit or replace the whole caliper



**47** Use a nylon brush to clean rubber elements



**48** Wind back the brake caliper pistons. Use a special brake caliper piston wind-back tool



**Important!**

- If your rear brake calipers are equipped with an integrated parking brake, you may need to rotate the pistons while winding them back

49

Treat the surfaces where the brake pads contact the caliper and bracket with anti-squeal paste



**AUTODOC recommends:**

- Do not apply too much anti-squeal paste to prevent it from getting on the friction surface

50

Install the brake pads



51

Install the brake caliper



52

Make sure all the parts are in the correct position



**53** Tighten the fasteners to the torque recommended by the manufacturer



**54** Install all additional fasteners



**55** Treat the surface of the new brake disc where it will contact the wheel rim with an anti-corrosion agent



**56** Clean the mating surface on the wheel rim and the working surface of the brake disc



**57** Screw in and tighten the wheel fasteners in a criss-cross pattern. This will ensure uniform fit of the wheel to the hub





58

Press the brake pedal fully several times until you feel resistance



59

Check the brake fluid level in the expansion tank and refill if necessary



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