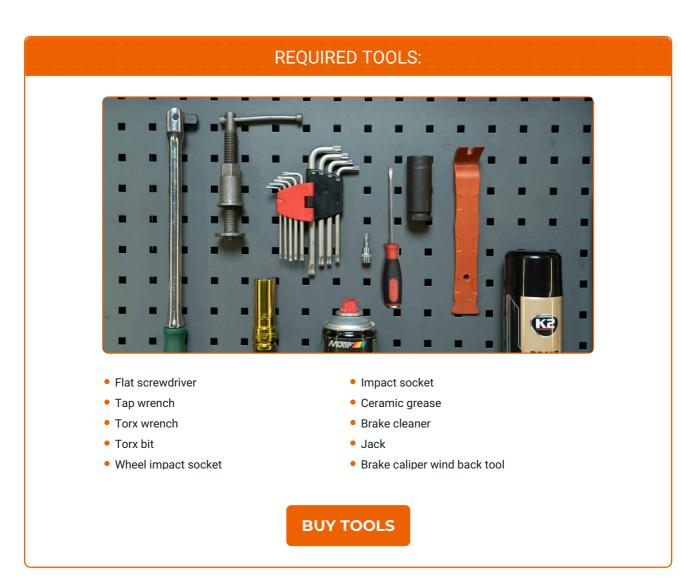
How to change brake pads on a car – replacement tutorial



VIDEO TUTORIAL







- wear
- abnormal noise when braking
- reduced braking efficiency

Prepare the appropriate tools and new brake pads



AUTODOC recommends:

- Be sure to replace brake pads as a set on an axle
- The procedure for replacing the front and rear brake pads is almost identical



The rear brake calipers may be equipped with a parking brake mechanism



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If it is mechanically driven by a cable, detach the cable before replacing the brake pads



4

If it is electrically actuated, set the system to the service mode



5

When replacing the brake pads, the brake caliper pistons should be wound back into the caliper body



6

If the rear brake calipers are equipped with a parking brake mechanism, their pistons also need to be turned while being wound back. Use a special tool with adapters





7

The most common design is a floating type caliper



8

It has to be removed before replacing the brake pads



Please note!

· Take into account that there are brake calipers with two or more pistons

9

The brake pad wear sensor indicates when the brake pads need to be replaced



10

When the brake pads are worn, the wear sensor's contact closes and a corresponding signal is sent to the onboard computer





Brake pad wear sensors are single-use and should be replaced together with the brake pads



12

If the sensor is mechanical, it starts contacting the disc when the brake pad is worn



13

This causes a specific noise



14

To access the brake pads, raise the car and remove the wheels





When using a jack you also need to use jack stands



16

Clean the brake caliper and its fasteners



AUTODOC recommends:

• Use safety goggles, gloves, and a respirator

17

While carrying out the replacement, regularly check the brake fluid level in the reservoir



18

Unscrew and remove the brake caliper fasteners





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



20

Hang the brake caliper from the suspension or the car body



21

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



22

Remove the brake pads



Please note!

• Please note: Brake pads can be additionally secured in the caliper piston



23

Inspect the brake pads after removal



24

If their friction linings are worn uniformly, this means that all components of the system are functioning properly



25

If the outer brake pad is more worn than the inner one, it gets stuck when moving in the anti-rattle clips in the bracket



26

If the inner brake pad is more worn than the outer one, check the condition of the caliper guide pins





27

Replace faulty elements of the brake caliper using a repair kit



28

Or replace the whole brake caliper



29

Remove the anti-rattle clips if there are any, and replace them if necessary



30

Clean the mounting seats



31

Check the dust boots of the guide pins and make sure that the guide pins themselves move freely





Inspect the dust boots of the caliper pistons and the brake hose and its fasteners



33

Inspect the brake discs and replace them if necessary



Please note:

- The kit might not include the anti-rattle clips. In this case, you should buy them separately
- 34

Clean the mounting seats of the brake pads on the brake caliper bracket. Clean all the components of the brake caliper. Use a nylon brush to clean rubber elements





- When the brake pedal is pressed, the caliper piston moves out and acts on the brake pads
- This makes the brake pads press against the disc
- This results in the car braking
- 35
- As the brake pads get worn, the brake caliper piston moves out further and further



It should be wound back to its original position before installing the new brake pads. 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





When the brake caliper piston is wound back, part of the brake fluid returns to the reservoir





• The fluid may overflow



Connect a special device to the brake bleeder screw and loosen the bleeder screw



39

The fluid will flow into the special container through the hose



40

Tighten the bleeder screw and make sure that it's air-tight





Top up the brake fluid reservoir with new brake fluid of a suitable type



42

Look at the design of the new brake pads



43

Read the manufacturer's instructions



44

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



45

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







The brake pads should move freely in the anti-rattle clips



47

Install the brake pads



48

Install the brake caliper



49

Screw in the brake caliper fasteners. Make sure the guide pins are not misaligned



50

Tighten the fasteners to the torque recommended by the manufacturer





51

Install all additional fastening elements



52

Treat the brake disc surface that will be in contact with the wheel rim with an anti-corrosion agent



53

Clean the brake disk surface



54

Press the brake pedal fully several times until you feel resistance



55

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



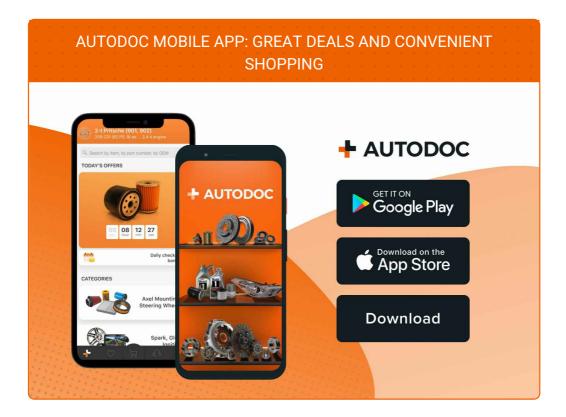


Please note!

- After the brake pads are installed, they have to bed in to the brake disc
- During this time, a squealing noise might be heard



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BRAKE PADS: A WIDE SELECTION

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