



How to change rear
brake discs on **BMW E39**
– replacement guide

VIDEO TUTORIAL



ⓘ Important!

This replacement procedure can be used for:

BMW 5 Saloon (E39) 525tds 2.5, BMW 5 Saloon (E39) 523i 2.5, BMW 5 Saloon (E39) 525td 2.5, BMW 5 Touring (E39) 525tds 2.5, BMW 5 Saloon (E39) 520i 2.0, BMW 5 Saloon (E39) 520d 2.0, BMW 5 Saloon (E39) 520i 2.2

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW E39. TOOLS YOU'LL NEED:



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

BUY TOOLS

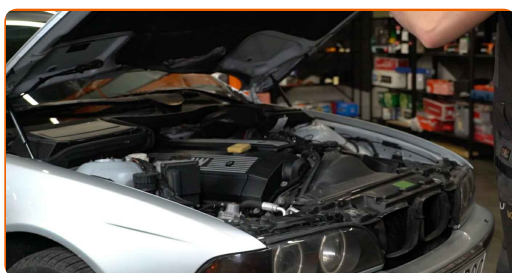
Replacement: brake discs – BMW E39. AUTODOC recommends:

- Replace the brake disks on the car BMW E39 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 E39 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Open the bonnet.

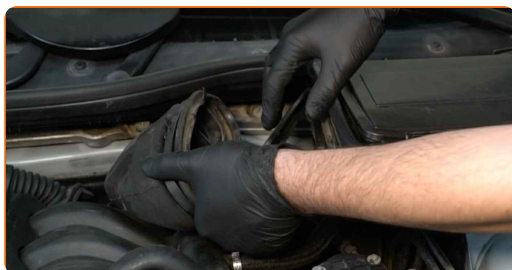


2

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

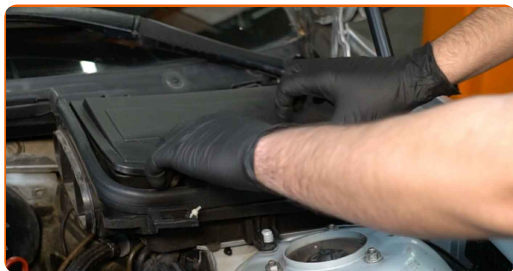
3

Detach the air duct from the cabin filter housing.



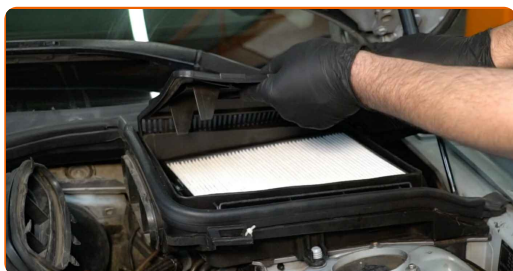
4

Release the cabin filter cover clips.



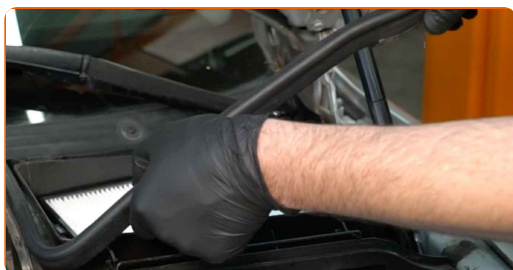
5

Remove the cabin filter housing cover.



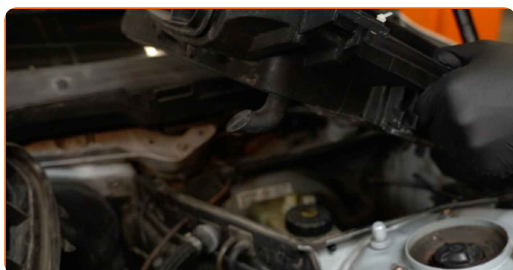
6

Remove the cabin filter housing seal.



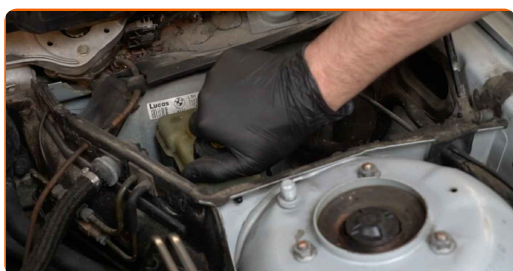
7

Remove the cabin air filter housing.

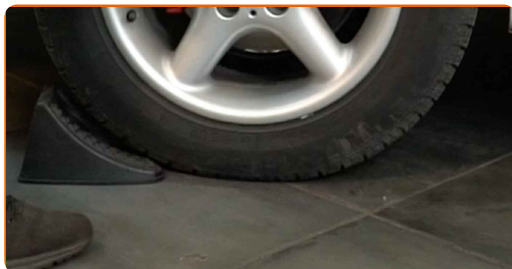


8

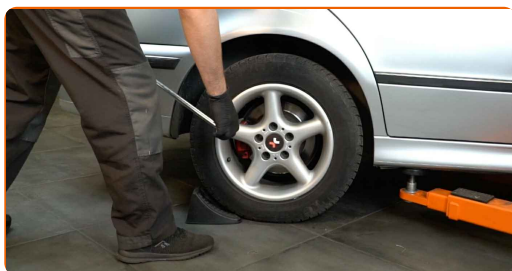
Unscrew the brake fluid reservoir cap.



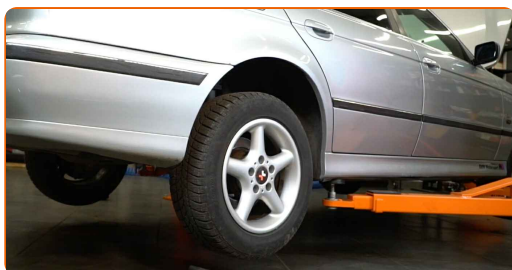
9 Secure the wheels with chocks.



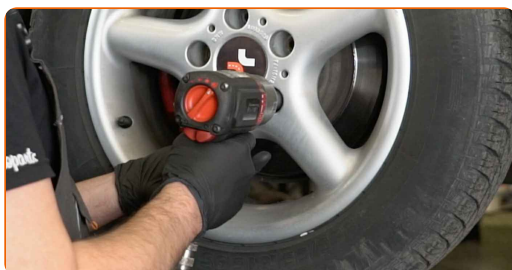
10 Loosen the wheel mounting bolts. Use wheel impact socket #17.



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



12 Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. BMW E39

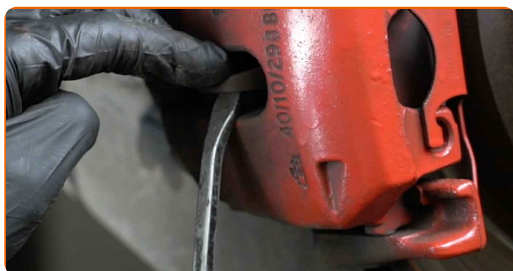
13

Remove the wheel.



14

Disconnect the brake pads wear sensor. Use a crowbar.

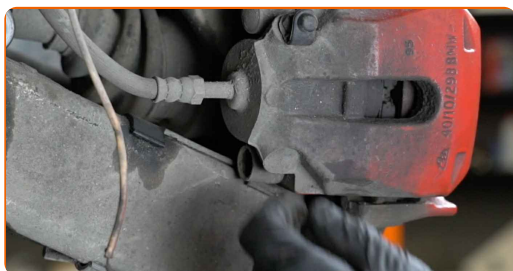


Please note!

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

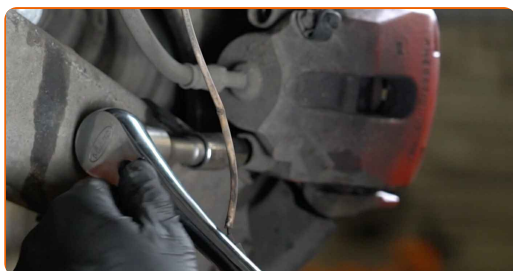
15

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

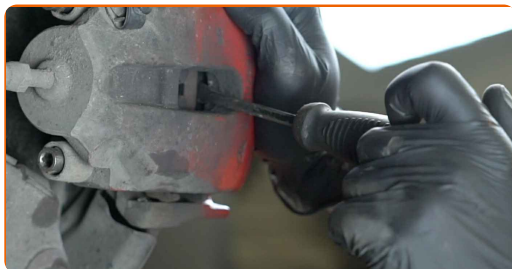


16

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



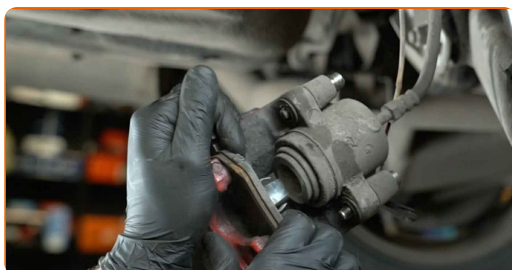
- 17 Spread the brake pads. Use a crowbar.



- 18 Detach the brake caliper retaining spring. Use a crowbar.



- 19 Remove the brake caliper.

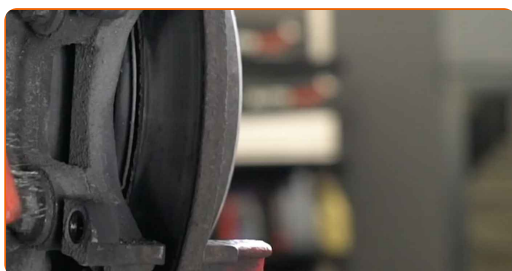


Replacement: brake discs – BMW E39. Professionals recommend:

- 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.

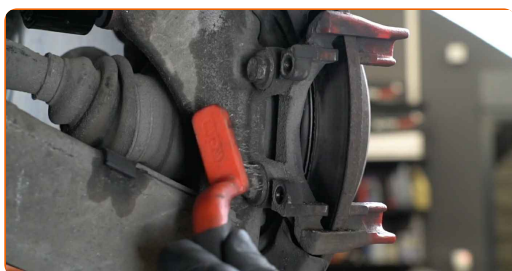
20

Remove the brake pads.

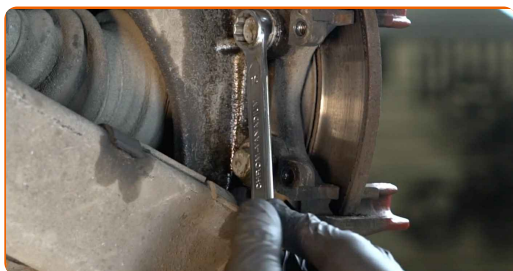


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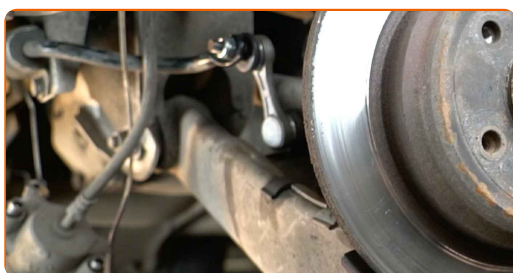
Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



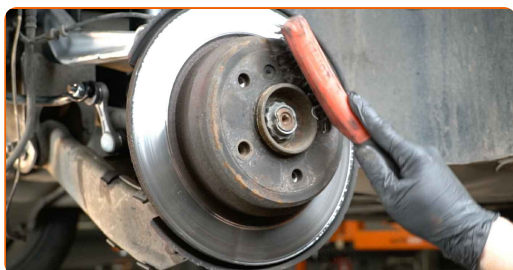
- 22 Unscrew the caliper bracket fastening. Use a combination spanner #16.



- 23 Remove the caliper bracket.



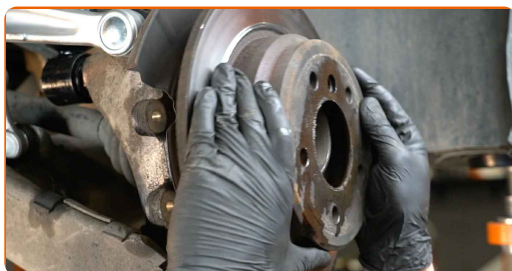
- 24 Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.



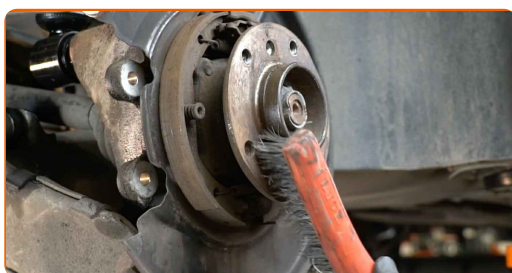
- 25 Unscrew the brake disc fastening. Use HEX No.H6. Use an impact screwdriver.



26 Remove the brake disc.



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



28 Install the brake disc.



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



30

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

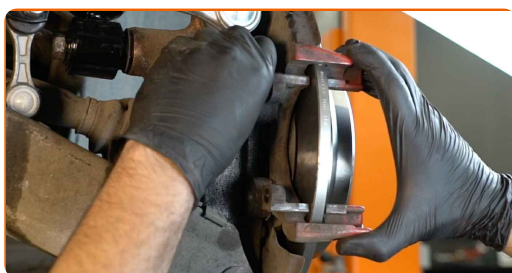


AUTODOC recommends:

- After applying the spray, wait a few minutes.

31

Install the brake caliper bracket.



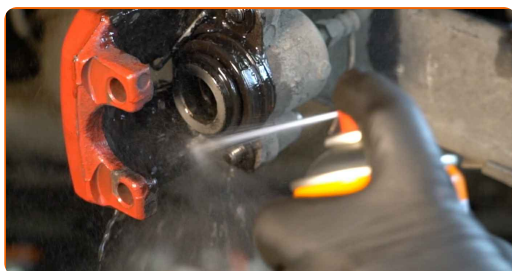
32

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



33

Treat the brake caliper piston. Use a brake cleaner.

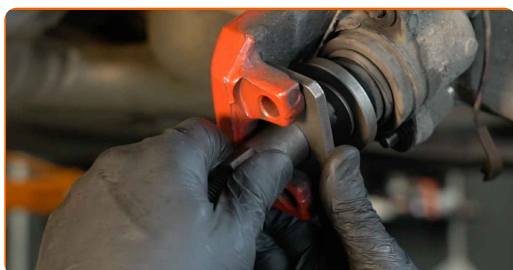


AUTODOC recommends:

- Replacement: brake discs – BMW E39. After applying the spray, wait a few minutes.

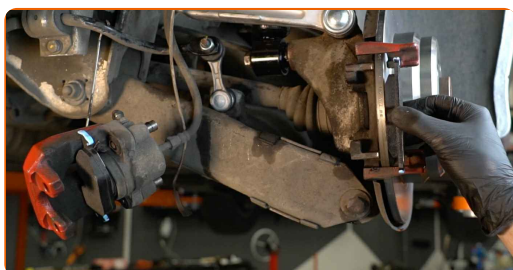
34

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



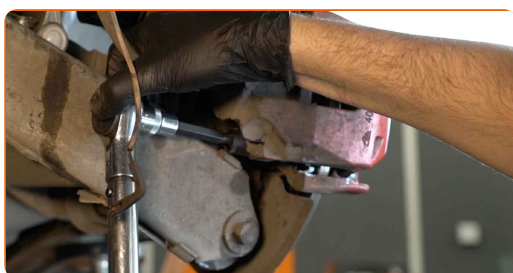
35

Install the brake pads.



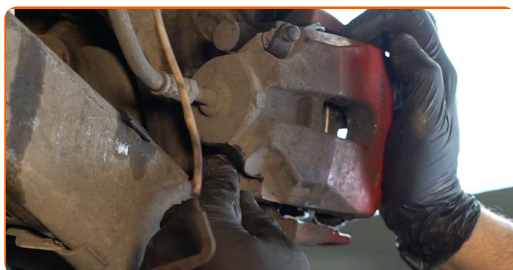
36

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

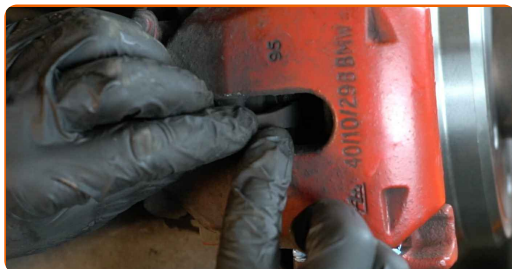


37

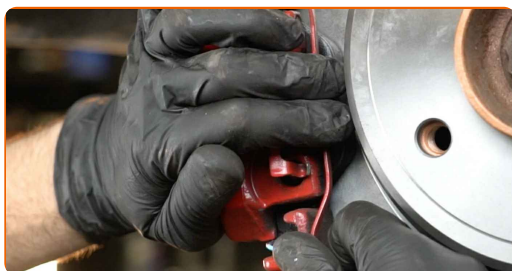
Install the dust boot caps of the brake caliper guide pins.



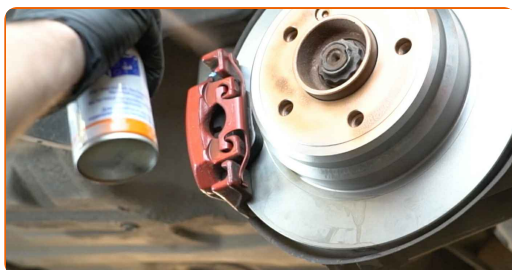
38 Connect the brake pads wear sensor.



39 Install the brake caliper retaining spring.



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



41 Clean the brake disk surface. Use a brake cleaner.

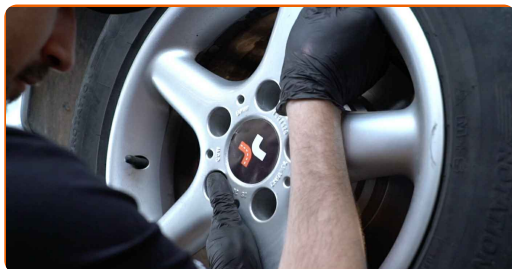


Replacement: brake discs – BMW E39. AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

42

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW E39

43

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



44

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.

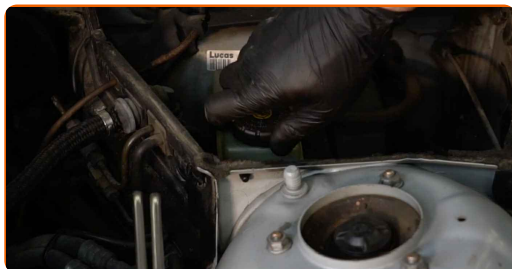


AUTODOC recommends:

- Important! Replacement: brake discs – BMW E39. Check the brake fluid level in the reservoir and top up if necessary.

45

Tighten the brake fluid reservoir cap.

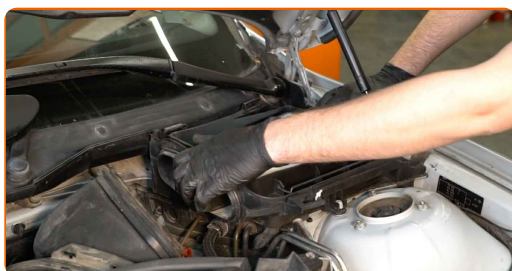


Replacement: brake discs – BMW E39. AUTODOC recommends:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

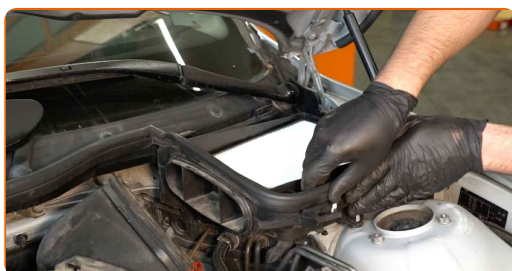
46

Install the cabin air filter housing.



47

Reinstall the cabin filter housing seal.



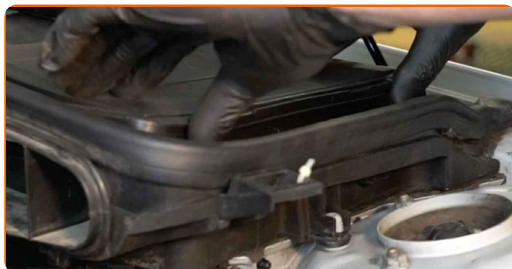
48

Reinstall the cabin filter housing cover. Make sure you hear a click indicating that it is locked in place.



49

Attach the cabin filter cover clips.



50

Install the air duct housing.



51

Remove the fender protection cover.

52

Close the hood.



53

Remove the jacks and chocks.



WELL DONE! 

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