



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

VIDEO TUTORIAL



i Important!

This replacement procedure can be used for:

BMW 5 Saloon (E39) 520i 2.0, BMW 5 Saloon (E39) 525tds 2.5, BMW 5 Saloon (E39) 523i 2.5, BMW 5 Saloon (E39) 528i 2.8, BMW 5 Saloon (E39) 535i 3.5, BMW 5 Touring (E39) 520i 2.0, BMW 5 Touring (E39) 523i 2.5, BMW 5 Saloon (E39) 525td 2.5, BMW 5 Touring (E39) 528i 2.8, BMW 5 Saloon (E39) 530d 3.0, BMW 5 Touring (E39) 530d 3.0, BMW 5 Touring (E39) 525tds 2.5, BMW 5 Saloon (E39) 520d 2.0, BMW 5 Touring (E39) 520d 2.0, BMW 5 Saloon (E39) 525d 2.5, (+ 5)

The steps may slightly vary depending on the car design.

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



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- HEX bit no.H6.
- HEX bit no.H7.
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Impact screwdriver
- Crow bar
- Fender cover
- Wheel chock

[BUY TOOLS](#)

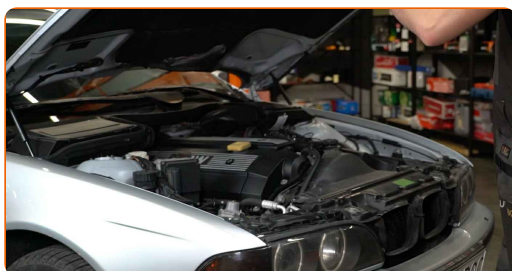
Replacement: brake discs – BMW E39. AUTODOC experts recommend:

- 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.
- All work should be done with the engine stopped.

REPLACEMENT: BRAKE DISCS – BMW E39. TAKE THE FOLLOWING STEPS:

1

Open the hood.

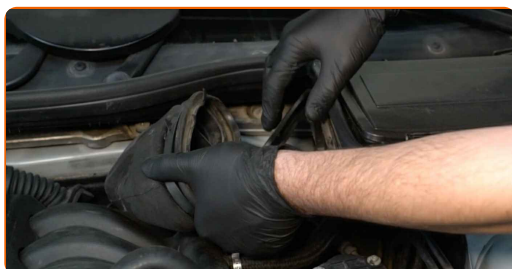


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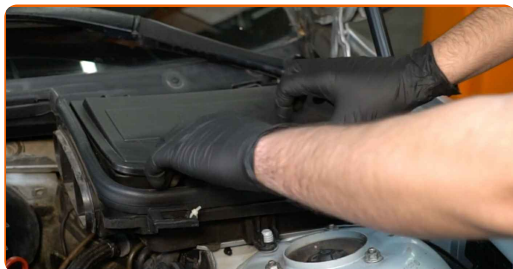
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3

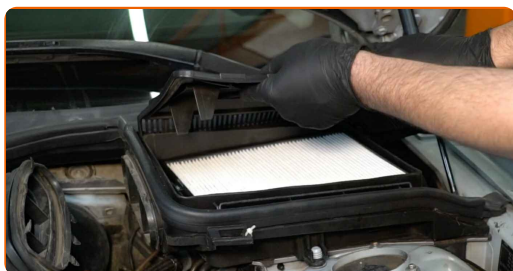
Detach the air duct from the cabin filter housing.



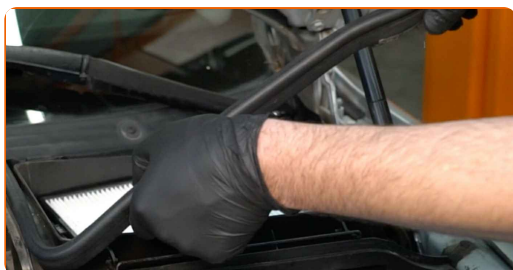
4 Release the cabin filter cover clips.



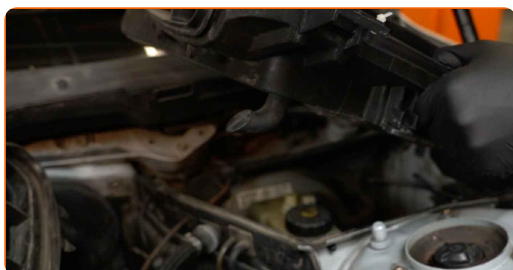
5 Remove the cabin filter housing cover.



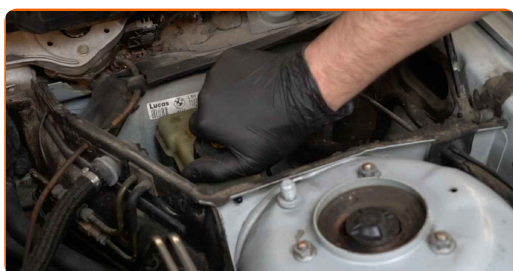
6 Remove the cabin filter housing seal.



7 Remove the cabin air filter housing.



8 Unscrew the brake fluid reservoir cap.



9 Secure the wheels with chocks.



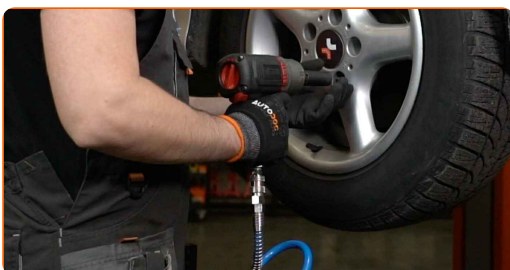
10 Loosen the wheel mounting bolts. Use wheel impact socket #17.



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



12 Unscrew the wheel bolts.



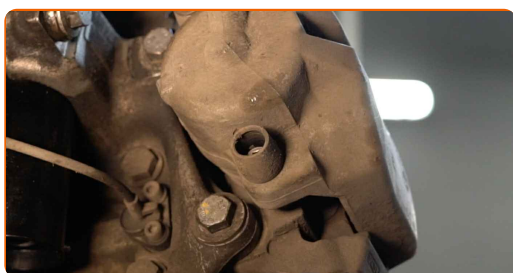
Replacement: brake discs – BMW E39. Tip from AUTODOC:

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

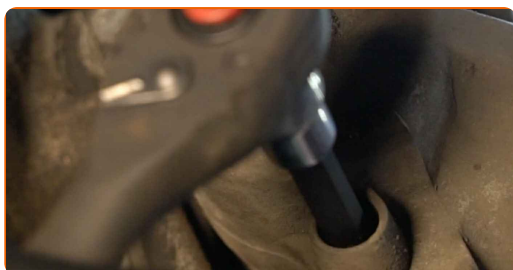
- 13** Remove the wheel.



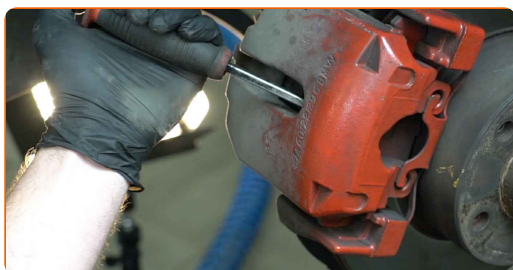
- 14** Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.



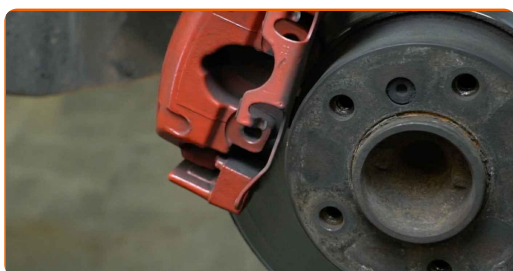
- 15** Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



- 16** Spread the brake pads. Use a crowbar.



- 17** Detach the brake caliper retaining spring. Use a crowbar.



18

Remove the brake caliper.

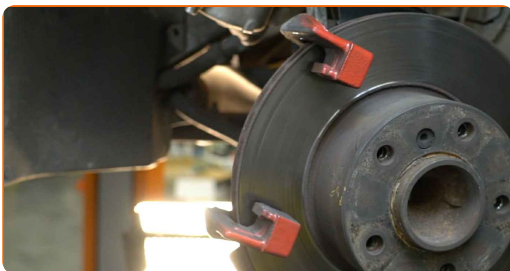


Replacement: brake discs – BMW E39. AUTODOC experts recommend:

- 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.

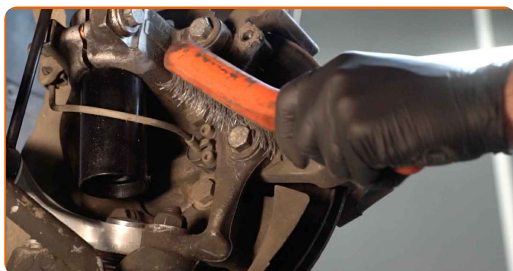
19

Remove the brake pads.



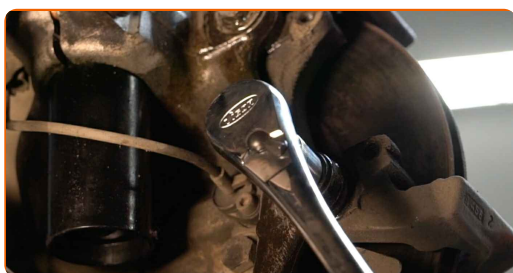
20

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



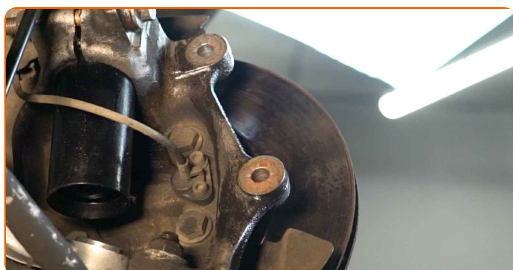
21

Unscrew the caliper bracket fastening. Use a drive socket #18. Use a tap wrench.



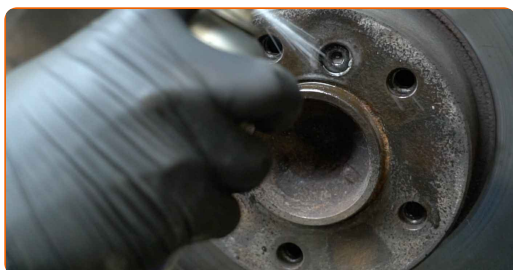
22

Remove the caliper bracket.



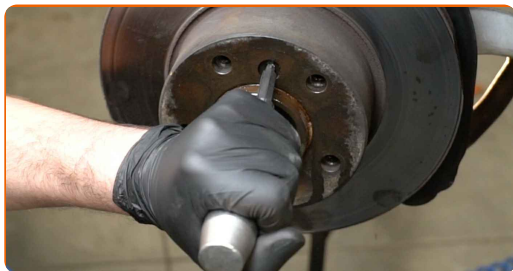
23

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



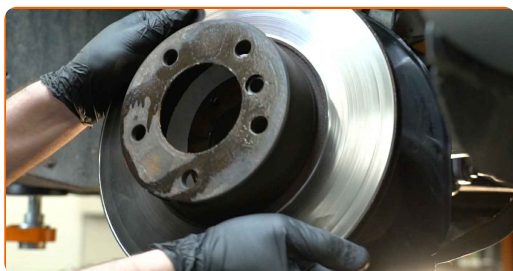
24

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



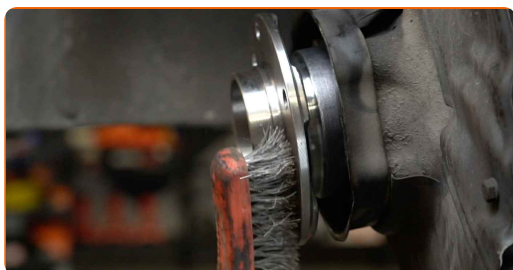
25

Remove the brake disc.



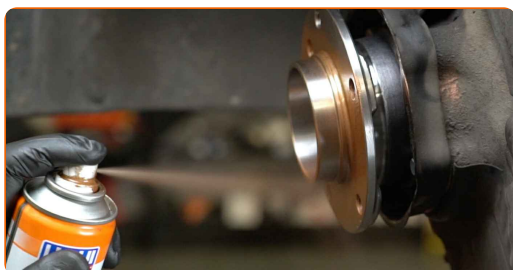
26

Clean the hub. Use a wire brush.



27

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.

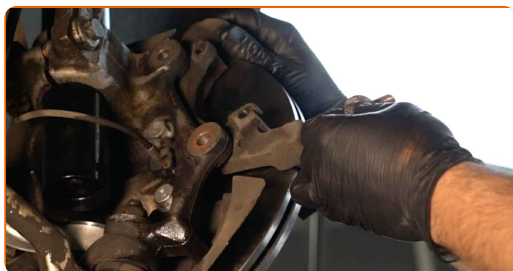


AUTODOC recommends:

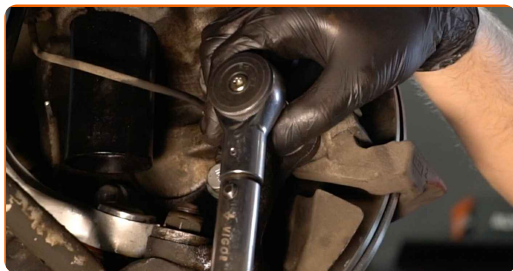
- Replacement: brake discs – BMW E39. After applying the spray, wait a few minutes.

31

Install the brake caliper bracket.



32 Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



33 Treat the brake caliper piston. Use a brake cleaner.



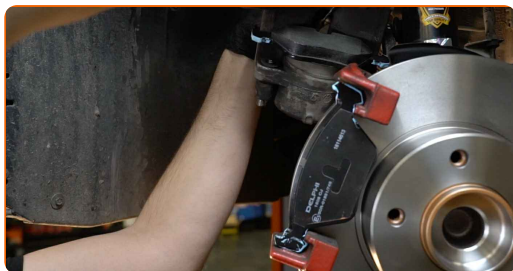
Replacement: brake discs – BMW E39. Tip:

- After applying the spray, wait a few minutes.

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

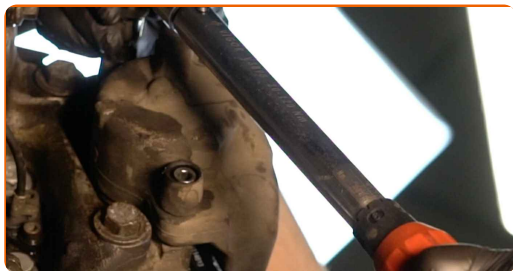


35 Install the brake pads.



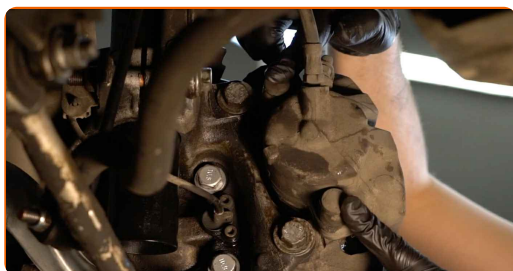
36

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



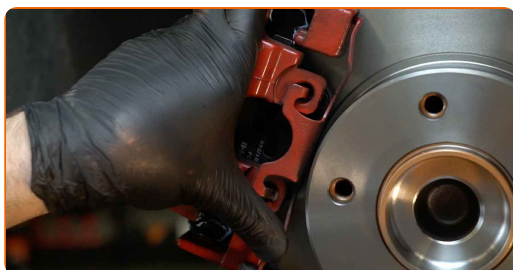
37

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



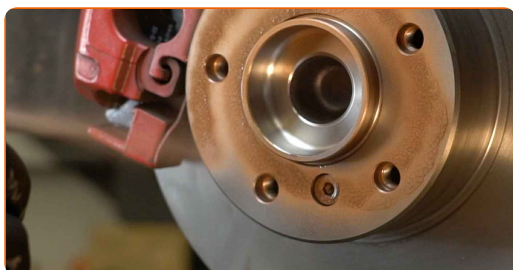
38

Install the brake caliper retaining spring.



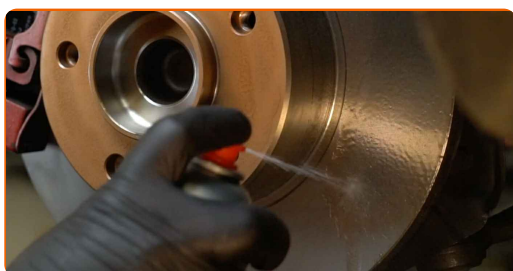
39

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



40

Clean the brake disk surface. Use a brake cleaner.



Replacement: brake discs – BMW E39. Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

41

Install the wheel.



AUTODOC recommends:

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

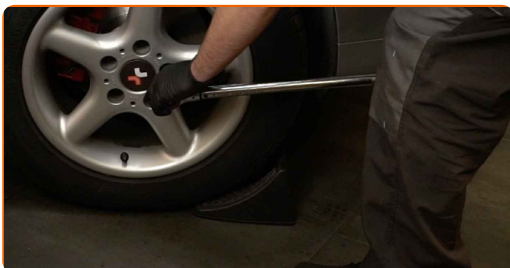
42

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



43

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.



Replacement: brake discs – BMW E39. AUTODOC recommends:

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

44

Tighten the brake fluid reservoir cap.

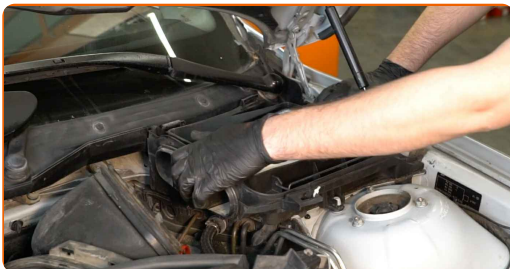


AUTODOC recommends:

- BMW E39 – Without starting the engine, press the brake pedal several times until it feels firm.

45

Install the cabin air filter housing.



46

Reinstall the cabin filter housing seal.



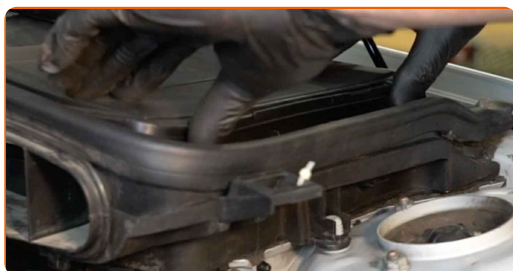
47

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



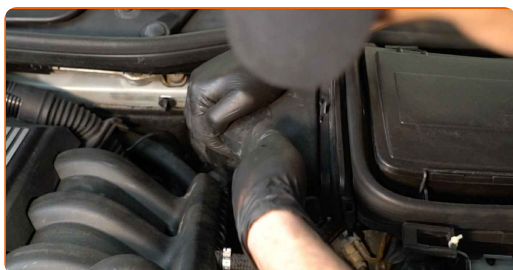
48

Attach the cabin filter cover clips.



49

Install the air duct housing.



50

Remove the fender protection cover.

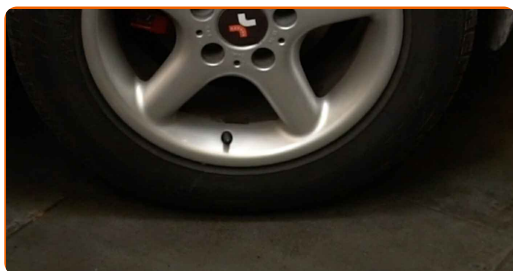
51

Close the hood.



52

Remove the jacks and chocks.



WELL DONE! 

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