



How to change front  
brake pads on **BMW X5**  
**E53** – replacement guide

## VIDEO TUTORIAL



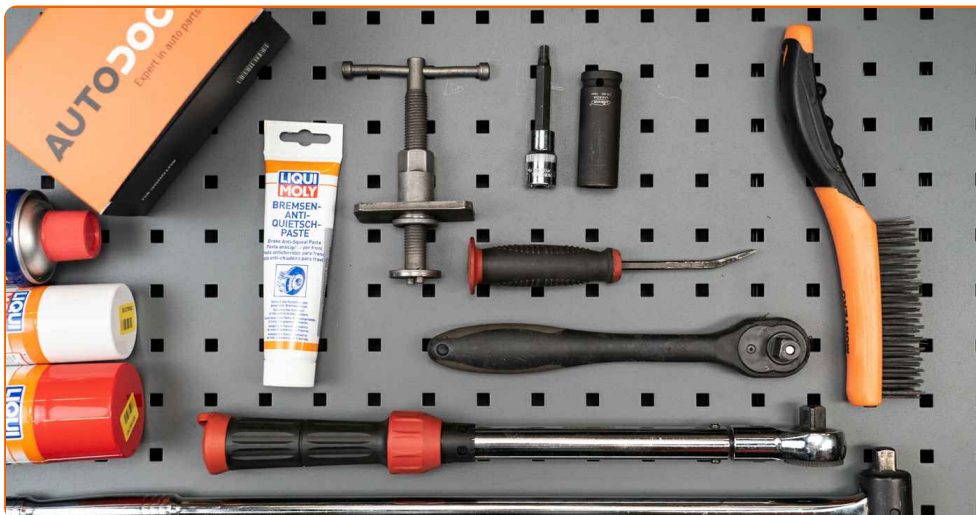
### **ⓘ Important!**

This replacement procedure can be used for:

BMW 7 (E38) 740i / iL 4.0, BMW 5 Saloon (E39) 520i 2.0, BMW 7 (E38) 740i / iL 4.4, BMW 5 Saloon (E39) 540i 4.4, BMW 5 Saloon (E39) 535i 3.5, BMW 5 Touring (E39) 520i 2.0, BMW 5 Touring (E39) 540i 4.4, BMW 5 Saloon (E39) M5, BMW 5 Touring (E39) 525tds 2.5, BMW X5 (E53) 4.4 i, BMW X5 (E53) 3.0 d, BMW 5 Saloon (E39) 520d 2.0, BMW 5 Touring (E39) 520d 2.0, BMW 5 Saloon (E39) 525d 2.5, BMW 5 Touring (E39) 525d 2.5, (+ 12)

The steps may slightly vary depending on the car design.

## REPLACEMENT: BRAKE PADS – BMW X5 E53. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Anti-squeal paste
- Copper grease
- HEX bit no.H7.
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Crow bar
- Wheel chock

[BUY TOOLS](#)

### Replacement: brake pads – BMW X5 E53. AUTODOC recommends:

- Perform the replacement of brake pads in complete set for each axis. This provides effective braking.
- The replacement procedure is identical for all brake pads on the same axle.
- All work should be done with the engine stopped.

## REPLACEMENT: BRAKE PADS – BMW X5 E53. RECOMMENDED SEQUENCE OF STEPS:

1

Open the bonnet.



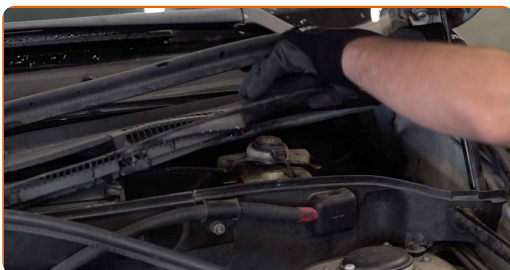
2

Remove the rubber strip.

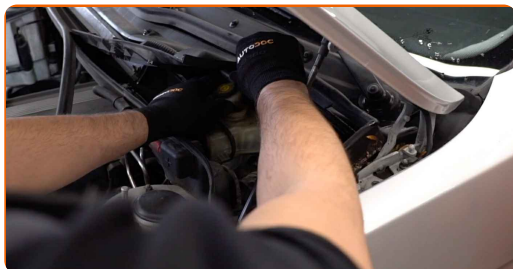


3

Remove the protective cover.



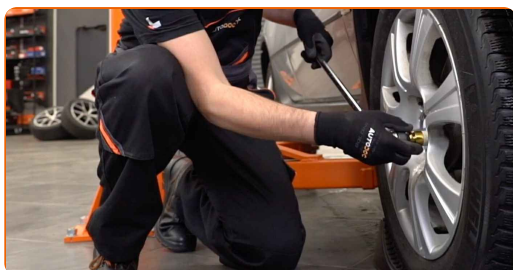
4 Unscrew the brake fluid reservoir cap.



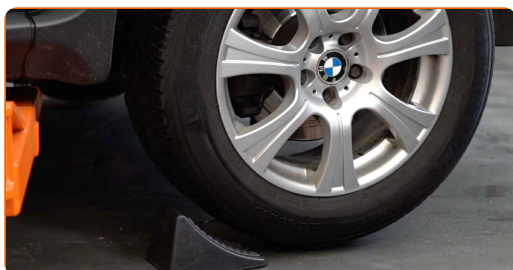
5 Secure the wheels with chocks.



6 Loosen the wheel mounting bolts. Use wheel impact socket #19.



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



8 Unscrew the wheel bolts.



### AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
BMW X5 E53

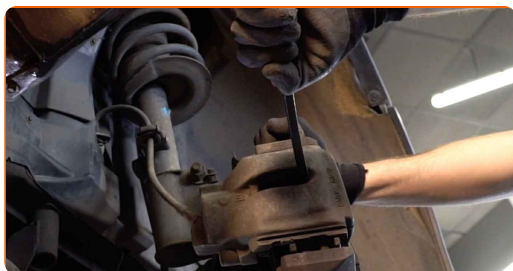
9

Remove the wheel.



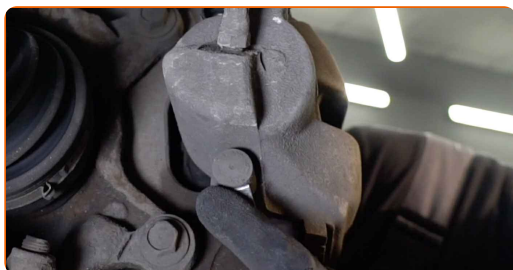
10

Spread the brake pads. Use a crowbar.



11

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



12

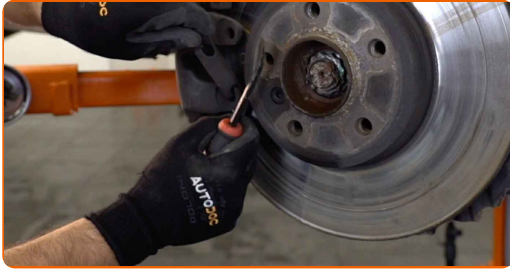
Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.





13

Detach the brake caliper retaining spring. Use a crowbar.



14

Remove the brake caliper.

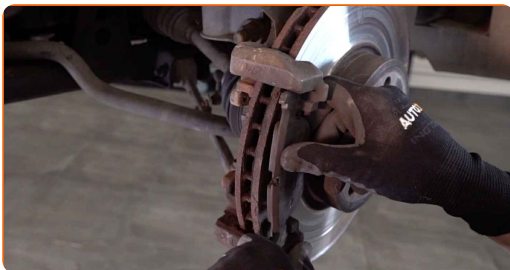


### Replacement: brake pads – BMW X5 E53. Professionals recommend:

- 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.

15

Remove the brake pads. Use a crowbar.



### Replacement: brake pads – BMW X5 E53. Tip from AUTODOC:

- Measure the brake disc thickness. Upon reaching the wear limit the part must be replaced.

16

Treat the brake caliper piston. Use a brake cleaner.



### Replacement: brake pads – BMW X5 E53. AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

17

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





18

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

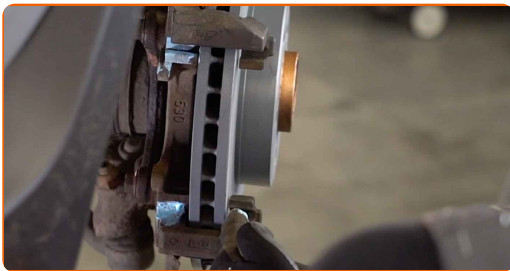


### AUTODOC recommends:

- Replacement: brake pads – BMW X5 E53. After applying the spray, wait a few minutes.

19

Treat the brake caliper bracket where it contacts the brake pads. Use anti-squeal paste.



### Replacement: brake pads – BMW X5 E53. Tip from AUTODOC experts:

- Make sure the disc surface is clean before installing the pads.

20

Install new brake pads.

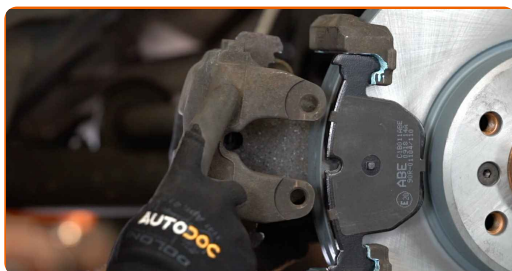


Replacement: brake pads – BMW X5 E53. Tip:

- Make sure the pads are installed with linings facing the disc.

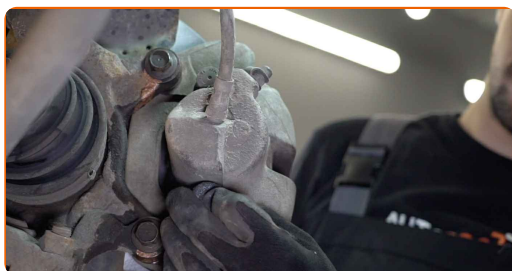
21

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



22

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



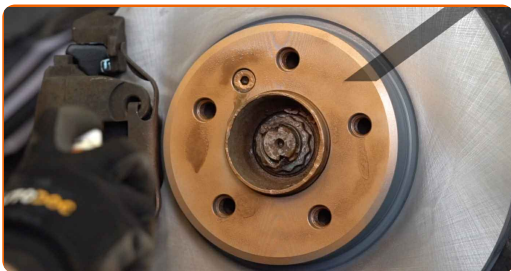
23

Install the brake caliper retaining spring.



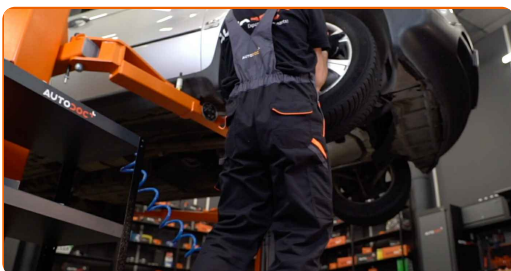
24

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



25

Install the wheel.

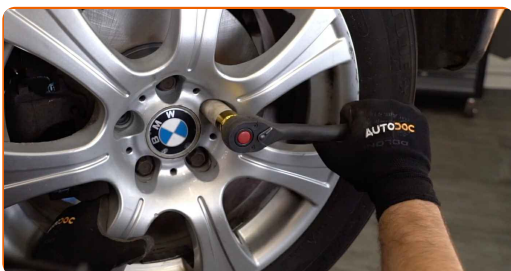


### AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. BMW X5 E53

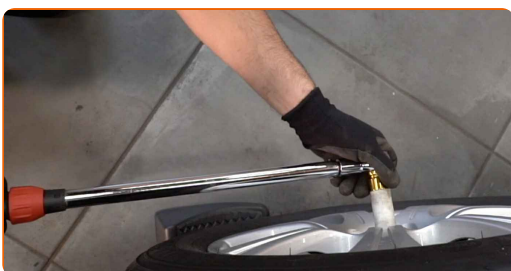
26

Screw in the wheel bolts. Use wheel impact socket #19.



27

Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 140 nm torque.



### Replacement: brake pads – BMW X5 E53. AUTODOC recommends:

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

28

Remove the jacks and chocks.



### AUTODOC recommends:

- Important! Replacement: brake pads – BMW X5 E53. Check the brake fluid level in the reservoir and top up if necessary.

29

Tighten the brake fluid reservoir cap.



30

Install the protective cover.



31

Install the rubber strip.



32

Close the hood.



Replacement: brake pads – BMW X5 E53. Tip from AUTODOC experts:

- Slow down smoothly for first 150-200 km after the brake pads replacement. Avoid unnecessary and sharp braking to a stop.

WELL DONE! 👍

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