



How to change rear
brake pads on **Mini R50,**
R53 – replacement guide

VIDEO TUTORIAL



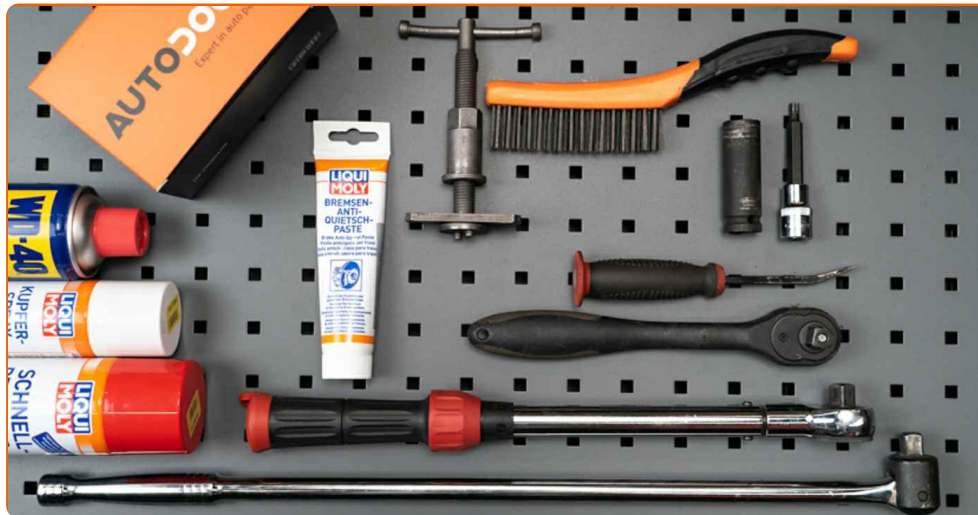
Important!

This replacement procedure can be used for:

MINI Hatchback (R50, R53) 1.6 One, MINI Hatchback (R50, R53) 1.6 Cooper, MINI Hatchback (R50, R53) 1.6 Cooper S, MINI Hatchback (R50, R53) 1.4 D One, MINI Hatchback (R50, R53) 1.6 Works, MINI Convertible (R52) 1.6 One, MINI Convertible (R52) 1.6 Cooper, MINI Convertible (R52) 1.6 Cooper S, MINI Convertible (R52) 1.6 John Cooper Works, MINI Hatchback (R50, R53) 1.4 One D, MINI Hatchback (R50, R53) 1.6 S Works, MINI Hatchback (R50, R53) One, MINI Hatchback (R50, R53) 1.6 John Cooper Works

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE PADS – MINI R50, R53. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Anti-squeal paste
- HEX bit No.H7.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: brake pads – Mini R50, R53. Professionals recommend:

- 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 – MINI R50, R53. USE THE FOLLOWING PROCEDURE:

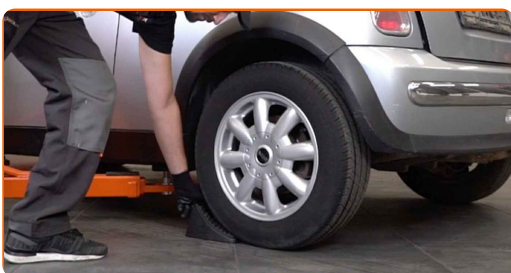
1

Open the bonnet. Unscrew the brake fluid reservoir cap.



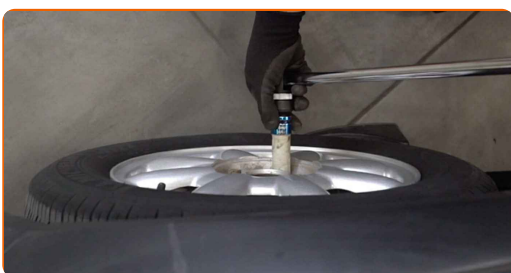
2

Secure the wheels with chocks.



3

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



4

Raise the rear of the car and secure on supports.



5

Unscrew the wheel bolts.

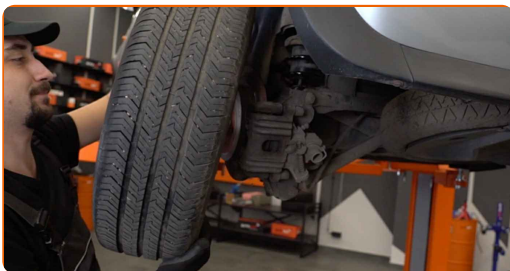


Replacement: brake pads – Mini R50, R53. Tip:

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

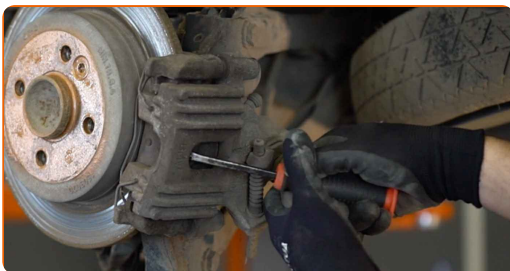
6

Remove the wheel.

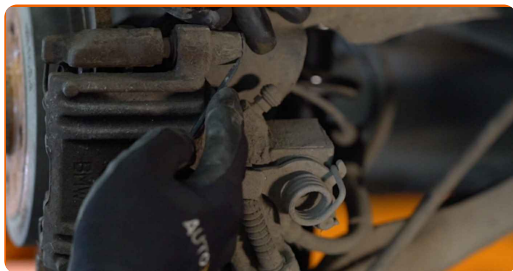


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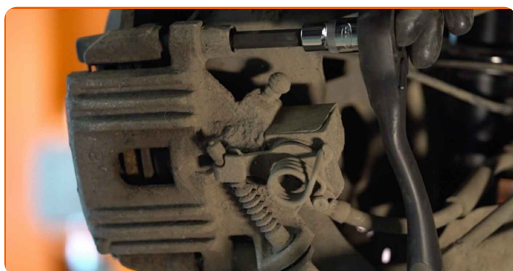
Spread the brake pads. Use a crowbar.



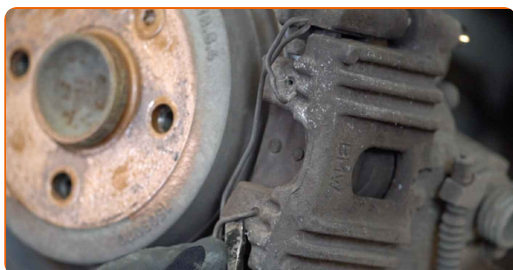
8 Remove the dust boot caps of the brake caliper guide pins.



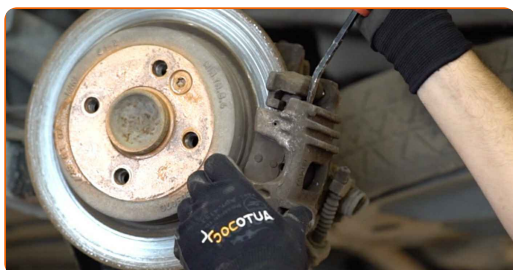
9 Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



10 Detach the brake caliper retaining spring. Use a crowbar.



11 Remove the brake caliper. Use a crowbar.

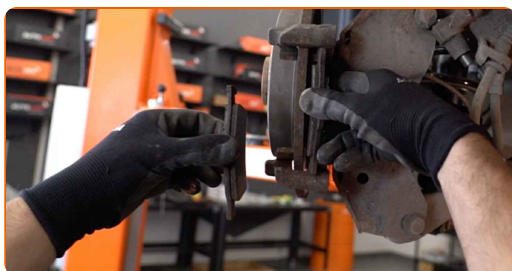


Replacement: brake pads – Mini R50, R53. AUTODOC experts recommend:

- 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.

12

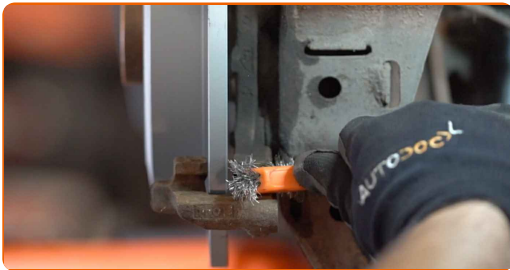
Remove the brake pads.



Replacement: brake pads – Mini R50, R53. AUTODOC recommends:

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

- 13** Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary. Use a wire brush. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake pads – Mini R50, R53. After applying the spray, wait a few minutes.

- 14** Press in the brake caliper piston. Use brake caliper wind back tool.



- 15** Treat the back side of the new brake pads. Treat the brake caliper bracket where it contacts the brake pads. Use anti-squeal paste.

Replacement: brake pads – Mini R50, R53. Tip from AUTODOC:

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

16 Install new brake pads.



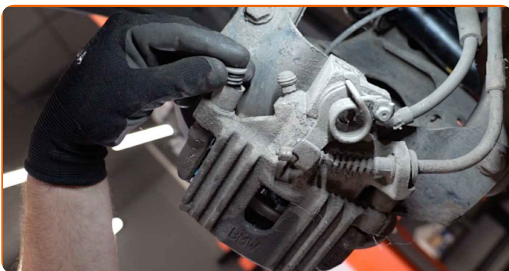
Replacement: brake pads – Mini R50, R53. Tip from AUTODOC experts:

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

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



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



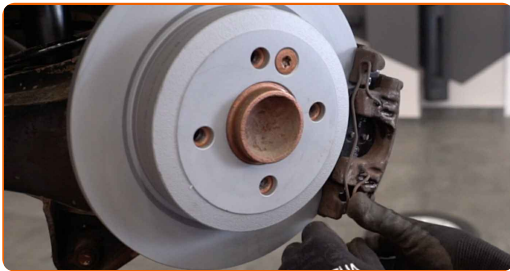
19

Treat the mounting seat of the brake caliper retaining spring. Use WD-40 spray.



20

Install the brake caliper retaining spring.

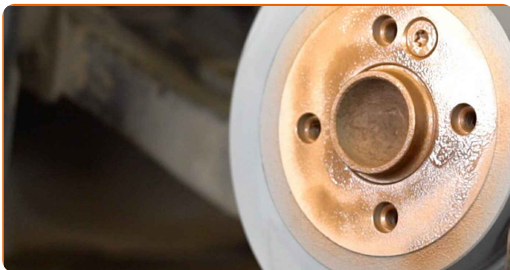


AUTODOC recommends:

- Mini R50, R53 – Without starting the engine, press the brake pedal several times until it feels firm.

21

Clean the brake disk surface. Use a wire brush. Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



22 Install the wheel.



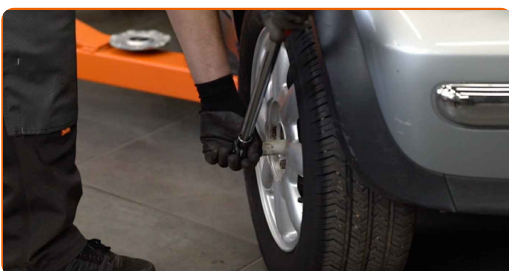
Replacement: brake pads – Mini R50, R53. AUTODOC recommends:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

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

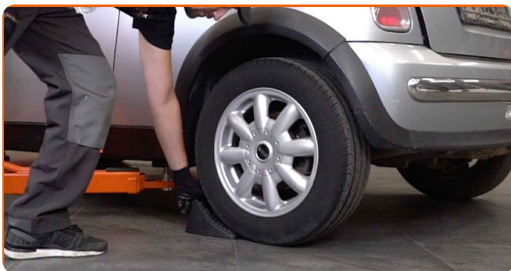


24 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 110 Nm torque.



25

Remove the jacks and chocks.



Replacement: brake pads – Mini R50, R53. AUTODOC experts recommend:

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

26

Tighten the brake fluid reservoir cap. Close the hood.



Replacement: brake pads – Mini R50, R53. Professionals recommend:

- 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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