



How to change front
brake discs on **Mini R50,**
R53 – replacement guide

VIDEO TUTORIAL



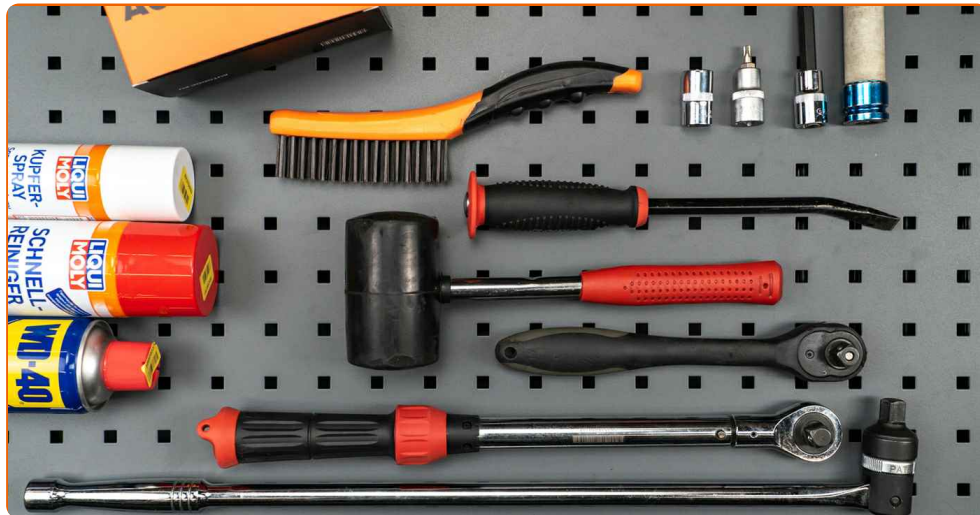
i Important!

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) One

The steps may slightly vary depending on the car design.

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



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 16
- Hex bit no.H7.
- Torx bit T30
- Wheel impact socket #17
- Tap wrench
- Ratchet wrench
- Torque wrench
- Rubber mallet
- Crow bar
- Wheel chock

BUY TOOLS

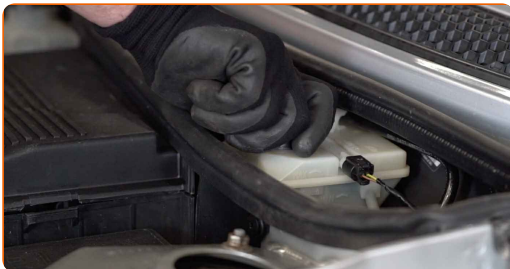
Replacement: brake discs – Mini R50, R53. Tip:

- Replace the brake disks on the car Mini R50, R53 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 – MINI R50, R53. TAKE THE FOLLOWING STEPS:

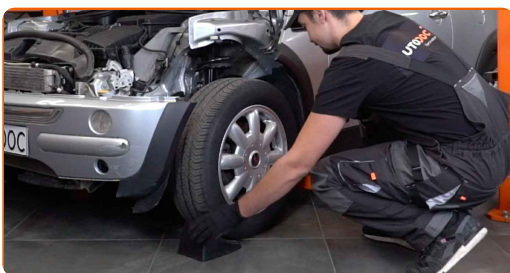
1

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 front of the car and secure on supports.



5 Unscrew the wheel bolts.



AUTODOC recommends:

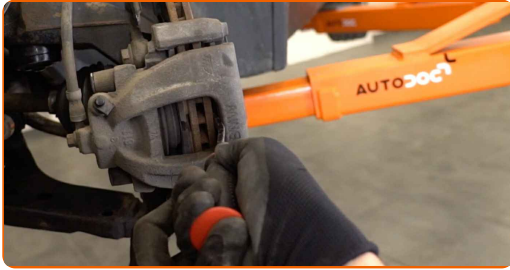
- Important! Hold the wheel while unscrewing the fastening bolts. Mini R50, R53

6 Remove the wheel.



7

Spread the brake pads. Use a crowbar.



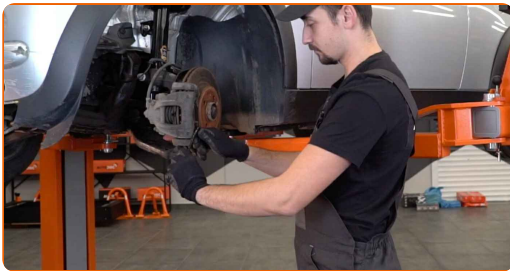
8

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



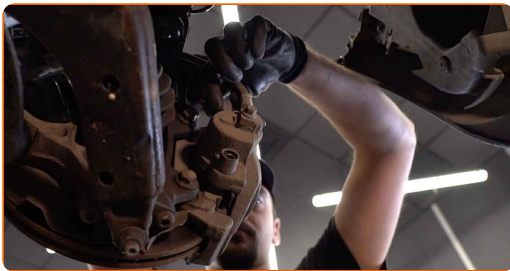
9

Detach the brake caliper retaining spring. Use a crowbar.



10

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



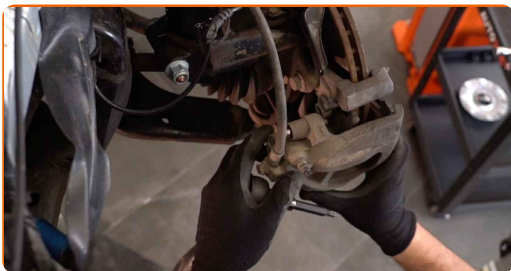
11

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



12

Remove the brake caliper.



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

- 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.

13

Unscrew the caliper bracket fastening. Use a drive socket #16. Use a tap wrench.

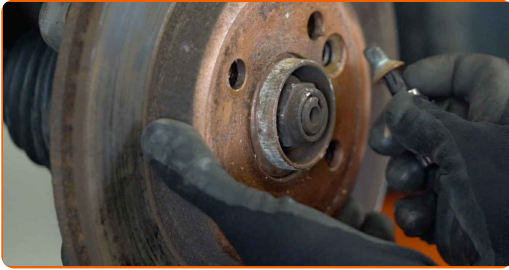


14

Remove the caliper bracket.



15 Unscrew the brake disc fastening. Use Torx T30. Use a ratchet wrench.



16 Remove the brake disc.



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

- If necessary, use a rubber mallet.

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

18 Install the brake disc.



19

Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 9 Nm torque.



20

Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use WD-40 spray.



21

Install the brake caliper bracket.



22

Tighten the brake caliper bracket. Use a drive socket #16. Use a torque wrench. Tighten it to 110 Nm torque.



23

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

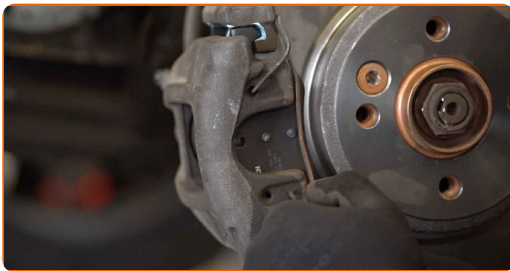


Replacement: brake discs – Mini R50, R53. Tip from AUTODOC:

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

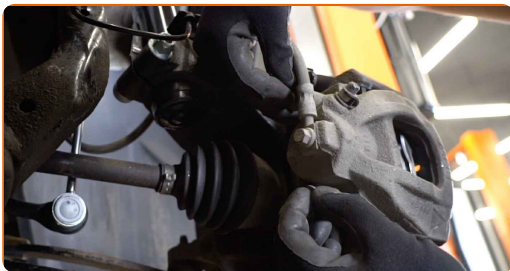
24

Install the brake caliper retaining spring.



25

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



26

Remove anti-corrosion grease from the new brake disk. Use a brake cleaner.



AUTODOC recommends:

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

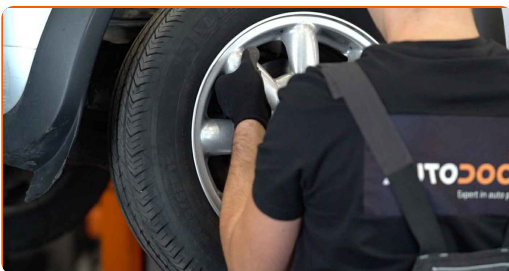
27

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



28

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Mini R50, R53

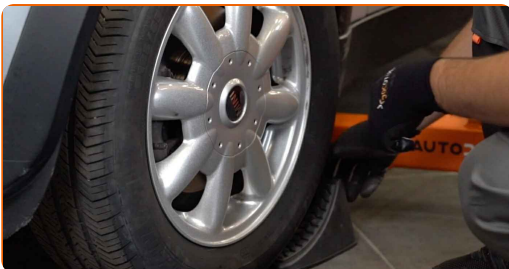
29 Screw in the wheel bolts. Use wheel impact socket #17.



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



31 Remove the jacks and chocks.



AUTODOC recommends:

- Important! Replacement: brake discs – Mini R50, R53. Check the brake fluid level in the reservoir and top up if necessary.

32

Tighten the brake fluid reservoir cap. Close the hood.



WELL DONE! 

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