



How to change rear  
brake discs on **BMW 1  
Hatchback (E81)** –  
replacement guide

## SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

### Important!

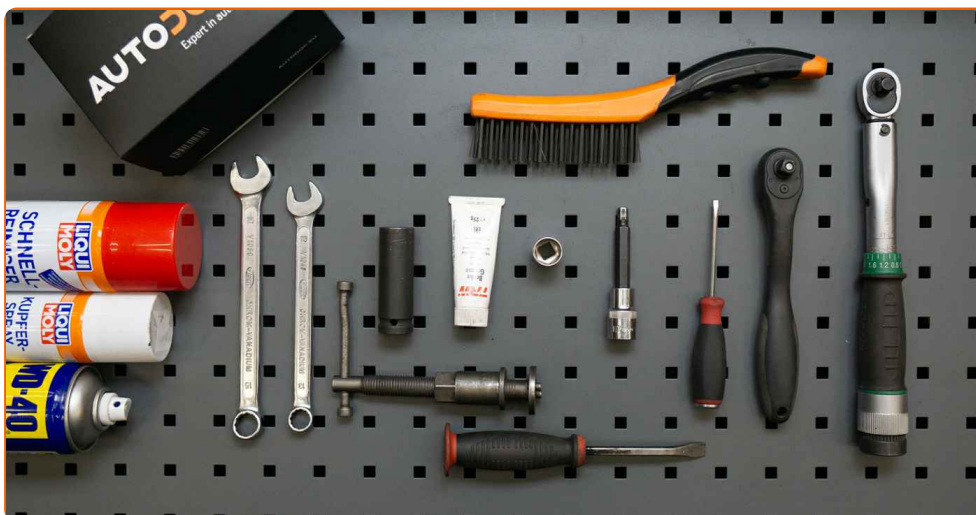
This replacement procedure can be used for:

BMW 1 Hatchback (E81) 118i 2.0, BMW 1 Hatchback (E81) 120i 2.0

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 3 Saloon (E90) 318i 2.0

REPLACEMENT: BRAKE DISCS – BMW 1 HATCHBACK (E81). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Brake caliper guide pins grease
- Copper grease
- Sealant
- Combination spanner #13
- Combination spanner #15
- Drive socket # 16
- HEX bit No.H6.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Flat Screwdriver
- Crow bar
- Wheel chock

**Buy tools**

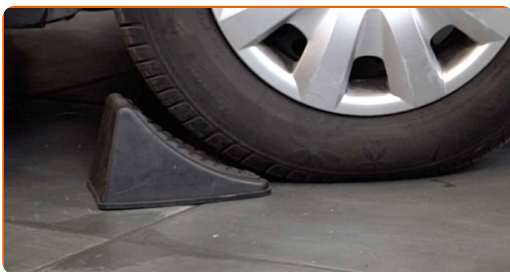
**AUTODOC recommends:**

- Replace the brake disks on the car BMW 1 Hatchback (E81) 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 1 Hatchback (E81) – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**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.

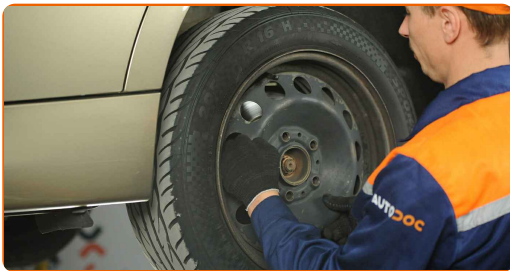
**5** Unscrew the wheel bolts.



**AUTODOC recommends:**

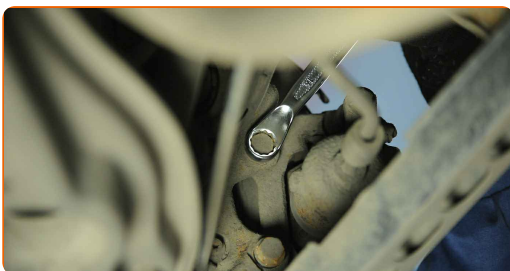
- Important! Hold the wheel while unscrewing the fastening bolts. BMW 1 Hatchback (E81)

**6** Remove the wheel.



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

**8** Unscrew the brake caliper fastening. Use a combination spanner #13. Use a combination spanner #15.



**9** Spread the brake pads. Use a crowbar.

**10**

Remove the brake caliper.

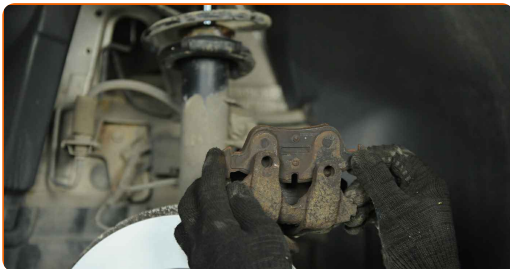


**Replacement: brake discs – BMW 1 Hatchback (E81). AUTODOC recommends:**

- 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.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

**11**

Remove the brake pads. Use a flat screwdriver.



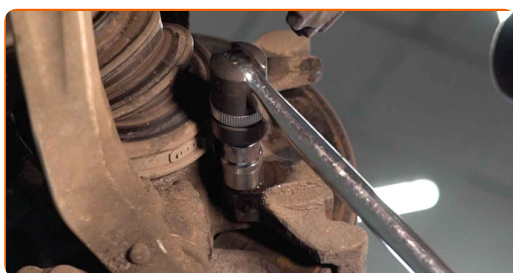
**12**

Remove the brake pads retaining clips. Use a flat screwdriver.

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

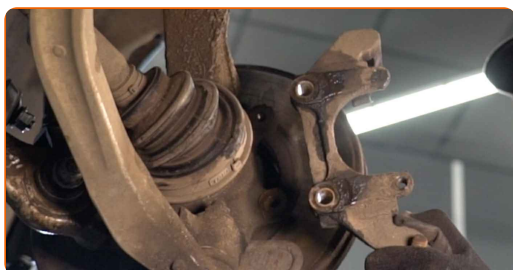


**14** Unscrew the caliper bracket fastening. Use a drive socket #16. Use a ratchet wrench.



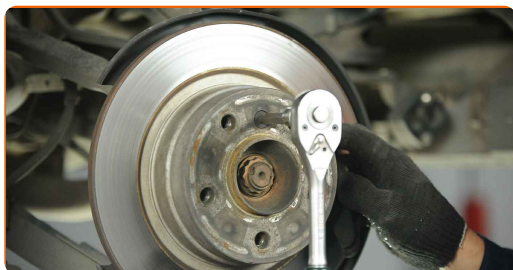
**15** Remove the fastening bolts (2 pieces).

**16** Remove the caliper bracket.



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

**18** Unscrew the brake disc fastening. Use HEX No.H6. Use a ratchet wrench.

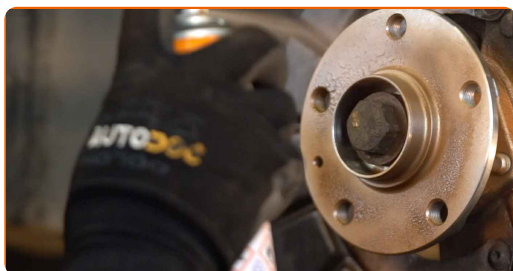




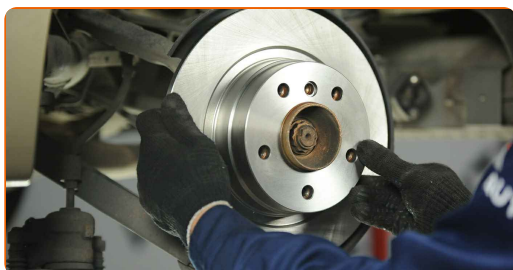
**19** Remove the brake disc.



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



**21** Install the brake disc.



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





**23**

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



**AUTODOC recommends:**

- Replacement: brake discs – BMW 1 Hatchback (E81). After applying the spray, wait a few minutes.

**24**

Remove the guide pins from the brake caliper.



**25**

Clean the brake caliper guide pins. Use a brake cleaner.

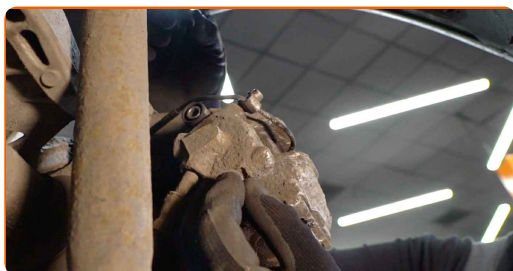
**Replacement: brake discs – BMW 1 Hatchback (E81). Tip from AUTODOC:**

- After applying the spray, wait a few minutes.

**26**

Treat the brake caliper guide pins. Use the brake caliper guide pin grease.

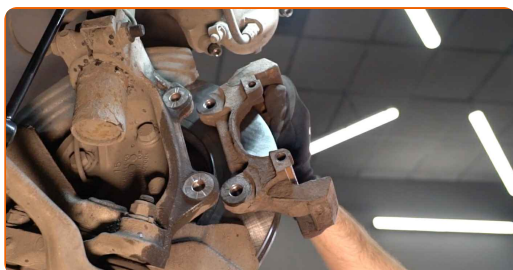
**27** Screw in the guide pins.



**28** Treat the fastening bolts. Use a wire brush. Use a sealant.



**29** Install the brake caliper bracket.

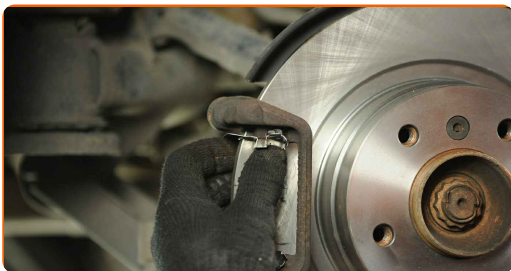


**30** Install the fastening bolts (2 pieces).

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



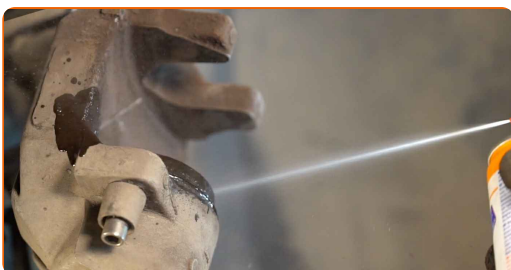
**32** Install the brake pads retaining clips.



**33** Install the brake pads. Use a flat screwdriver.



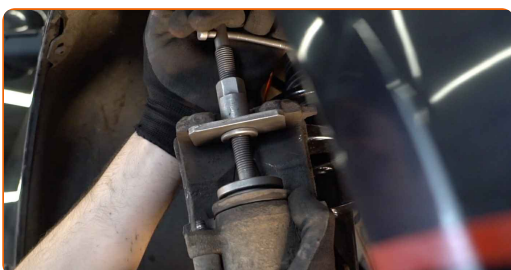
**34** Treat the brake caliper piston. Use a brake cleaner.



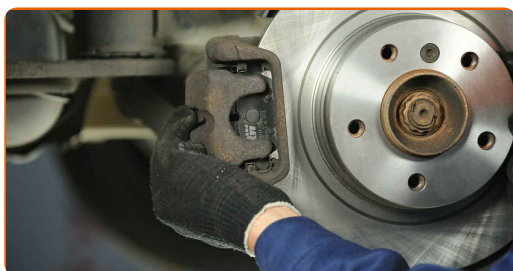
**AUTODOC recommends:**

- Replacement: brake discs – BMW 1 Hatchback (E81). After applying the spray, wait a few minutes.

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



- 36** Install the brake caliper and fix it. Use a combination spanner #15. Use a drive socket #13. Use a torque wrench. Tighten it to 35 Nm torque.



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



- 38** Clean the brake disc surface. Use a brake cleaner.

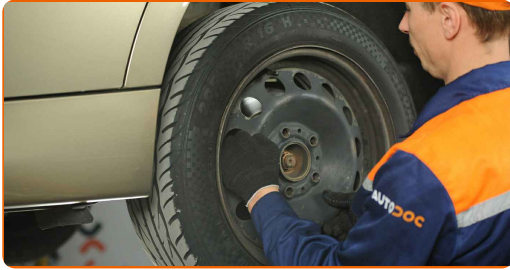


Replacement: brake discs – BMW 1 Hatchback (E81). AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

**39**

Install the wheel.



**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. BMW 1 Hatchback (E81)

**40**

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



**41**

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 1 Hatchback (E81). AUTODOC experts recommend:**

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

42

Remove the jacks and chocks.



Replacement: brake discs – BMW 1 Hatchback (E81). Professionals recommend:

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

43

Tighten the brake fluid reservoir cap. Close the hood.

**WELL DONE!** 

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