



How to change front  
brake discs on **BMW 1  
Hatchback (E87)** –  
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 (E87) 116i 1.6, BMW 1 Hatchback (E87) 116i 2.0, BMW 1 Hatchback (E87) 118i 2.0, BMW 1 Hatchback (E87) 120i 2.0, BMW 1 Hatchback (E87) 130i 3.0, BMW 1 Hatchback (E87) 116d 2.0, BMW 1 Hatchback (E87) 118d 2.0, BMW 1 Hatchback (E87) 120d 2.0, BMW 1 Hatchback (E87) 120 d

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 (E87). TOOLS YOU NEED:**



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

**Buy tools**

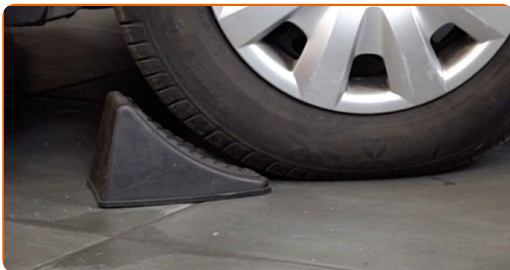
**AUTODOC recommends:**

- Replace the brake disks on the car BMW 1 Hatchback (E87) 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 (E87) – should be done with the engine switched off.

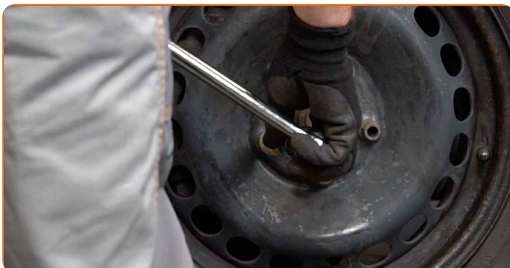
**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**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 front of the car and secure on supports.

**5** Unscrew the wheel bolts.



**AUTODOC recommends:**

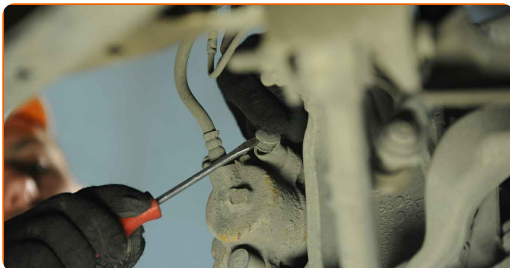
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
BMW 1 Hatchback (E87)

**6** Remove the wheel.



**7** Detach the brake caliper retaining spring. Use a flat screwdriver.

**8** Remove the dust boot caps of the brake caliper guide pins. Use a flat screwdriver.

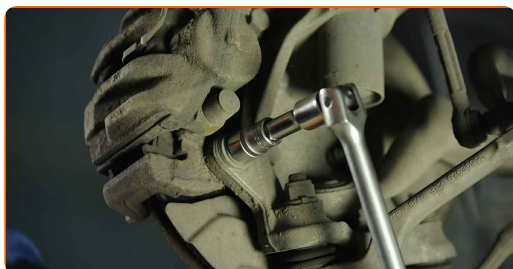


9 Spread the brake pads. Use a crowbar.



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

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



12 Remove the brake caliper.



Replacement: brake discs – BMW 1 Hatchback (E87). 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.

13

Remove the brake pads.

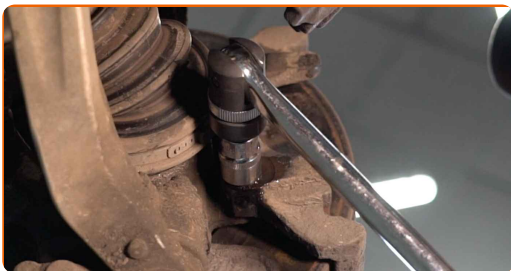


14

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

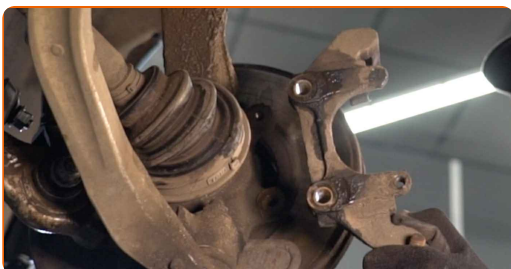


**15** Unscrew the caliper bracket fastening. Use a drive socket #18. Use a ratchet wrench.



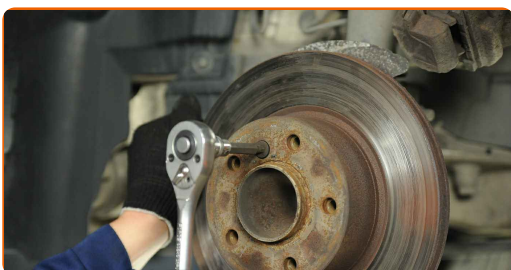
**16** Remove the fastening bolts (2 pieces).

**17** Remove the caliper bracket.

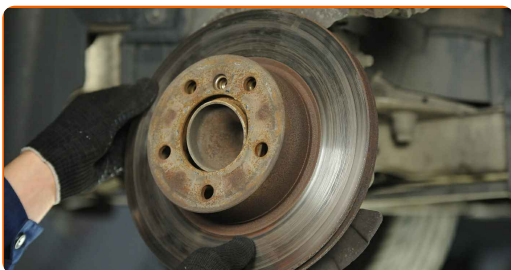


**18** Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.

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



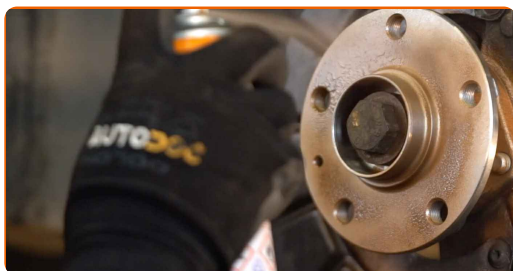
**20** Remove the brake disc.





21

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



22

Install the brake disc.



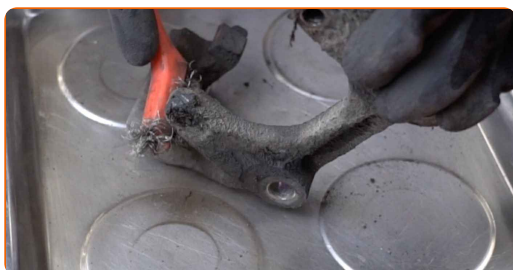
23

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



24

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 (E87). After applying the spray, wait a few minutes.

**25** Treat the fastening bolts. Use a sealant.

**26** Install the brake caliper bracket.



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

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



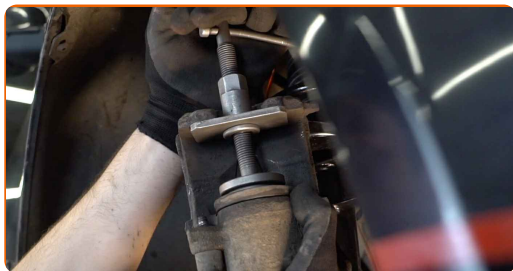
**29** Treat the brake caliper piston. Use a brake cleaner.



Replacement: brake discs – BMW 1 Hatchback (E87). AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

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



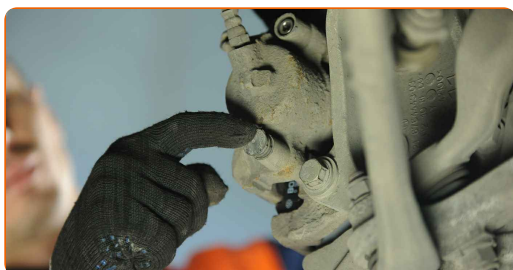
**31** Install the brake pads.



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



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



**34** Install the brake caliper retaining spring. Use a flat screwdriver.



35

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



36

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: brake discs – BMW 1 Hatchback (E87). After applying the spray, wait a few minutes.

37

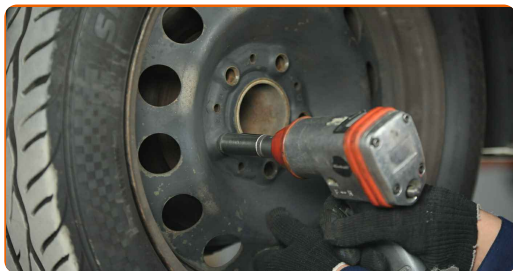
Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW 1 Hatchback (E87)

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



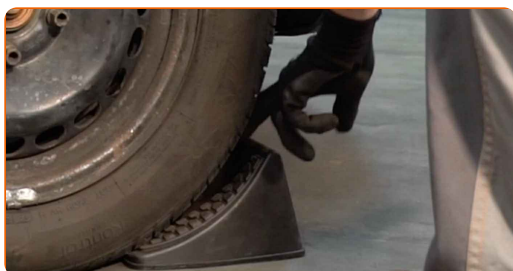
**39** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



Replacement: brake discs – BMW 1 Hatchback (E87). Professionals recommend:

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

**40** Remove the jacks and chocks.



Replacement: brake discs – BMW 1 Hatchback (E87). AUTODOC recommends:

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

41

Tighten the brake fluid reservoir cap. Close the hood.

**WELL DONE!** 

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