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How to change front brake caliper on **BMW 7 (E38)** – replacement guide







SIMILAR VIDEO TUTORIAL



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

(i) Important!

This replacement procedure can be used for: BMW 7 (E38) 740i / iL 4.0, BMW 7 (E38) 740i / iL 4.4

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 5 Saloon (E39) 530i 3.0

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REPLACEMENT: BRAKE CALIPER – BMW 7 (E38). TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Brake caliper guide pins grease
- HEX bit no.H7.
- Flare nut spanner №11
- Flare nut spanner №14

- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Crow bar
- Flat Screwdriver
- Brake hose clip
- Brake bleeder kit
- Wheel chock

Buy tools

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Replacement: brake caliper – BMW 7 (E38). AUTODOC recommends:

- The replacement procedure is identical for the left and right brake calipers on the same axle.
- All work should be done with the engine stopped.

REPLACEMENT: BRAKE CALIPER – BMW 7 (E38). RECOMMENDED SEQUENCE OF STEPS:

- Open the bonnet. Unscrew the brake fluid reservoir cap.
- Secure the wheels with chocks.



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



Raise the front of the car and secure on supports.

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5 Unscrew the wheel bolts.



Replacement: brake caliper – BMW 7 (E38). Tip:

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

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



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



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9 Spread the brake pads. Use a crowbar.



- Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.
- Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



Remove the guide pins from the brake caliper.



Clamp the brake hose off using a brake hose clamp.



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Clean the area where the brake hose is connected to the caliper, and the guide pins area. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake caliper BMW 7 (E38). After applying the spray, wait a few minutes.
- Loosen the brake hose fastening. Use a flare nut spanner #14.



Remove the brake caliper.



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Replacement: brake caliper – BMW 7 (E38). Tip from AUTODOC experts:

- When replacing the brake caliper, it is recommended to check the brake hose for damages and, if necessary, to replace it with a new one.
- When replacing a brake caliper it is recommended to replace brake pads, check the state of the brake discs and replace them with new ones if necessary.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them.
 Replace, if necessary.
- 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.

17 Remove the brake pads.

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Unscrew the brake hose from the brake caliper.



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Disconnect the brake hose.



Treat the brake hose. Use a brake cleaner.

Replacement: brake caliper – BMW 7 (E38). AUTODOC recommends:

• After applying the spray, wait a few minutes.

Install and fix the brake hose into a new caliper.



22 Install the brake pads.



Replacement: brake caliper – BMW 7 (E38). AUTODOC experts recommend:

• If going to use the old brake pads, clean them.

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



AUTODOC recommends:

- Replacement: brake caliper BMW 7 (E38). After applying the spray, wait a few minutes.
- Install the brake caliper and fix it.



Tighten the fastener connecting the brake pipe to the brake caliper. Use a flare nut spanner #14. Use a torque wrench. Tighten it to 22 Nm torque.



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Remove the brake hose clamp.



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



Replacement: brake caliper – BMW 7 (E38). Professionals recommend:

• If no new guide pins were supplied in a kit with the new brake calipers, use the old pins.

Screw in the guide pins.



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



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



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



- Connect the brake bleeder kit to the brake bleeder screw.
- Undo the brake bleeder screw. Use a flare nut spanner #11.



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35.1 Bleed the brake caliper system.



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



Tighten the brake caliper bleed screw. Use a flare nut spanner #11. Use a torque wrench. Tighten it to 13 Nm torque.



- Disconnect the brake bleeder kit.
- Clean dirt from the brake hose bolt. Use a brake cleaner.



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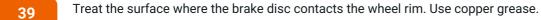






Replacement: brake caliper – BMW 7 (E38). Tip from AUTODOC:

• After applying the spray, wait a few minutes.





Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

 Replacement: brake caliper – BMW 7 (E38). After applying the spray, wait a few minutes.

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Install the wheel.



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Replacement: brake caliper – BMW 7 (E38). Tip from AUTODOC:

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





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.



Remove the jacks and chocks.



AUTODOC recommends:

• Important! Replacement: brake caliper – BMW 7 (E38). Check the brake fluid level in the reservoir and top up if necessary.

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Tighten the brake fluid reservoir cap. Close the hood.



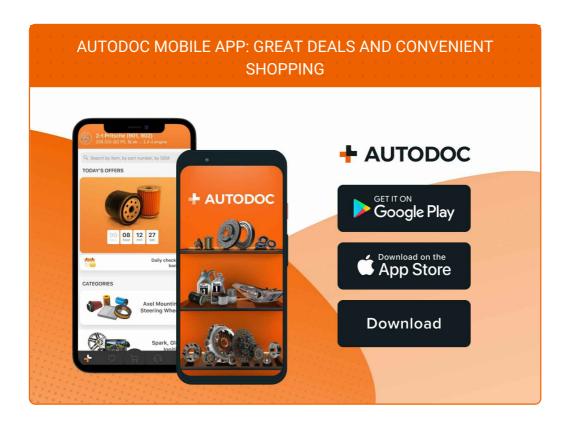
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