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How to change front brake caliper on **BMW 3 Compact (E46)** – 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 3 Compact (E46) 316ti 1.8, BMW 3 Compact (E46) 325ti 2.5, BMW 3 Compact (E46) 318ti 2.0, BMW 3 Compact (E46) 320td 2.0, BMW 3 Compact (E46) 318ti 2.0, BMW 3 Compact (E46) 316ti 1.6, BMW 3 Compact (E46) 318Ti 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 (E46) 318i 1.9

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REPLACEMENT: BRAKE CALIPER – BMW 3 COMPACT (E46). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #9
- Flare nut spanner #14
- HEX bit No.H7.

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

Buy tools

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Replacement: brake caliper – BMW 3 Compact (E46). Tip from AUTODOC experts:

- 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 3 COMPACT (E46). TAKE THE FOLLOWING 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.
- 5 Unscrew the wheel bolts.



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Replacement: brake caliper – BMW 3 Compact (E46). Tip:

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





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



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



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



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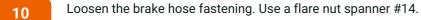






AUTODOC recommends:

 Replacement: brake caliper – BMW 3 Compact (E46). After applying the spray, wait a few minutes.





- 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.



Spread the brake pads. Use a crowbar.



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14 Remove the brake caliper.



Replacement: brake caliper – BMW 3 Compact (E46). AUTODOC recommends:

- 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.

15 Remove the brake pads.



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Unscrew the brake hose from the brake caliper. Use a flare nut spanner #14.



Treat the brake hose. Use a brake cleaner.



Replacement: brake caliper – BMW 3 Compact (E46). Tip from AUTODOC:

- After applying the spray, wait a few minutes.
- Install and fix the brake hose into a new caliper.



19 Install the brake pads.



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Replacement: brake caliper – BMW 3 Compact (E46). AUTODOC experts recommend:

- If going to use the old brake pads, clean them.
- Use a wire brush.
- Install the brake caliper and fix it. 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.



Undo the brake bleeder screw. Use a combination spanner #9.



22

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Connect the brake bleeder kit to the brake bleeder screw.



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



- Disconnect the brake bleeder kit.
- Tighten the brake caliper bleed screw. Use a combination spanner #9. Use a torque wrench. Tighten it to 10 Nm torque.



Clean dirt from the brake hose bolt. Use a brake cleaner.



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Replacement: brake caliper – BMW 3 Compact (E46). Tip:

• After applying the spray, wait a few minutes.





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



Clean the brake disk surface. Use a brake cleaner.



32 Install the wheel.



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Replacement: brake caliper – BMW 3 Compact (E46). Tip from AUTODOC experts:

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

33

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



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.



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AUTODOC recommends:

• Important! Replacement: brake caliper – BMW 3 Compact (E46). Check the brake fluid level in the reservoir and top up if necessary.

36

Tighten the brake fluid reservoir cap. Close the hood.



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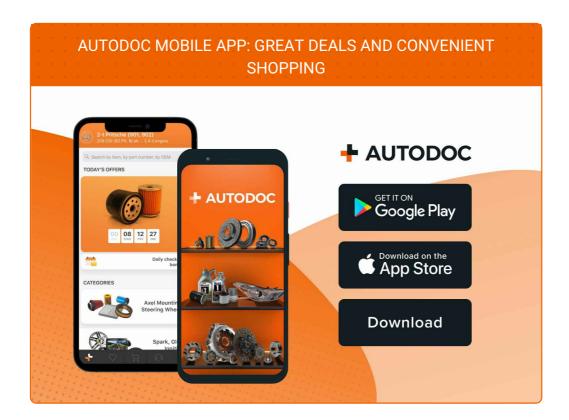
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BRAKE CALIPER: A WIDE SELECTION

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