





#### **VIDEO TUTORIAL**



### (i) Important!

This replacement procedure can be used for:

BMW 7 (E38) 740i / iL 4.0, BMW 7 (E38) 740i / iL 4.4, BMW 5 Saloon (E39) 540i 4.4, BMW 5 Saloon (E39) 535i 3.5, BMW 5 Touring (E39) 540i 4.4, BMW X5 (E53) 3.0 d, BMW 5 Saloon (E39) 520d 2.0, BMW 5 Touring (E39) 520d 2.0, BMW 5 Saloon (E39) 525d 2.5, BMW 5 Touring (E39) 525d 2.5, BMW 5 Saloon (E39) 520i 2.2, BMW 5 Saloon (E39) 530d 3.0, BMW 5 Touring (E39) 530d 3.0, BMW 5 Touring (E39) 520i 2.2, BMW 5 Saloon (E39) 525i 2.5, (+7)

The steps may slightly vary depending on the car design.

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# REPLACEMENT: BRAKE CALIPER – BMW X5 E53. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Brake caliper guide pins grease
- Copper 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 X5 E53. AUTODOC experts recommend:

- The replacement procedure is identical for the left and right brake calipers on the same axle.
- Warning! Shut down the engine before starting any work BMW X5 E53.

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

Open the bonnet. Unscrew the brake fluid reservoir cap.



2 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 X5 E53. Tip from AUTODOC experts:

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



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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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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 X5 E53. After applying the spray, wait a few minutes.
- Clamp the brake hose off using a brake hose clamp.



Loosen the brake hose fastening. Use a flare nut spanner #14.



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

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13.1 Unscrew the brake caliper fastening.



Use HEX No.H7. Use a ratchet wrench.



- Remove the guide pins from the brake caliper.
- Spread the brake pads. Use a crowbar.



Remove the brake caliper.



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#### Replacement: brake caliper – BMW X5 E53. Professionals recommend:

- 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. Use a flare nut spanner #14.



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- Disconnect the brake hose.
- Treat the brake hose. Use a brake cleaner.



## Replacement: brake caliper – BMW X5 E53. AUTODOC recommends:

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



Tighten the fastener connecting the brake pipe to the brake caliper. Use a flare nut spanner #14. Use a torque wrench. Tighten it to 18 Nm torque.



- Remove the brake hose clamp.
- Clean the brake caliper surface.

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25 Install the brake pads.



## Replacement: brake caliper – BMW X5 E53. Tip from AUTODOC:

- If going to use the old brake pads, clean them.
- 26 Install the brake caliper and fix it.



- Clean the brake caliper guide pins.
- Lubricate guide pins with special brake grease.



## Replacement: brake caliper – BMW X5 E53. Tip:

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

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- Screw in the guide pins.
- 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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