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How to change front brake discs on **BMW 3 Touring (E91)** –

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 Touring (E91) 325i 3.0, BMW 3 Touring (E91) 318d 2.0, BMW 3 Touring (E91) 318i 2.0, BMW 3 Touring (E91) 316d 2.0, BMW 3 Touring (E91) 320i 2.0, BMW 3 Touring (E91) 325i 2.5, BMW 3 Touring (E91) 320d 2.0, BMW 3 Touring (E91) 325d 3.0, BMW 3 Touring (E91) 330i 3.0, BMW 3 Touring (E91) 323i 2.5, BMW 3 Touring (E91) 330d 3.0, BMW 3 Touring (E91) 316i 1.6, BMW 3 Touring (E91) 328i 3.0

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

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## REPLACEMENT: BRAKE DISCS – BMW 3 TOURING (E91). 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** 

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#### **AUTODOC** recommends:

- Replace the brake disks on the car BMW 3 Touring (E91) 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 3 Touring (E91) should be done with the engine switched off.

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

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



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



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- A 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 3 Touring (E91)
- 6 Remove the wheel.



- 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 brake caliper.



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## Replacement: brake discs – BMW 3 Touring (E91). 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.



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



- Remove the fastening bolts (2 pieces).
- 17 Remove the caliper bracket.



- Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.
- Unscrew the brake disc fastening. Use HEX No.H6. Use a ratchet wrench.



Remove the brake disc.



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



22 Install the brake disc.

24



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



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



#### **AUTODOC** recommends:

 Replacement: brake discs – BMW 3 Touring (E91). After applying the spray, wait a few minutes.

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- Treat the fastening bolts. Use a sealant.
- Install the brake caliper bracket.



- Install the fastening bolts (2 pieces).
- Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



Treat the brake caliper piston. Use a brake cleaner.



Replacement: brake discs – BMW 3 Touring (E91). AUTODOC experts recommend:

• After applying the spray, wait a few minutes.

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



31 Install the brake pads.

34



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.



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



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



Clean the brake disk surface. Use a brake cleaner.



#### **AUTODOC** recommends:

• Replacement: brake discs – BMW 3 Touring (E91). 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 3 Touring (E91)

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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.



## Replacement: brake discs – BMW 3 Touring (E91). Professionals recommend:

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

Remove the jacks and chocks.

40



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### Replacement: brake discs – BMW 3 Touring (E91). AUTODOC recommends:

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

41 Tig

Tighten the brake fluid reservoir cap. Close the hood.



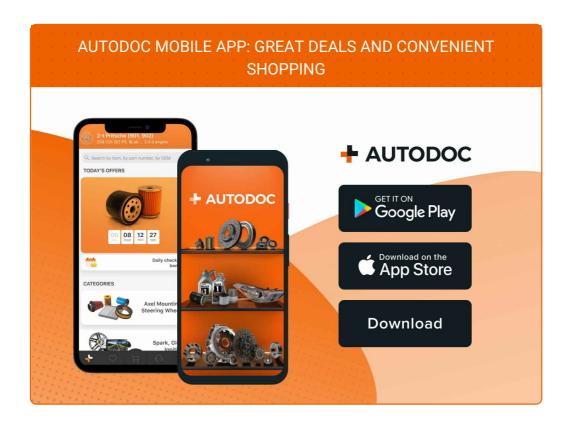
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