



How to change rear  
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

### Important!

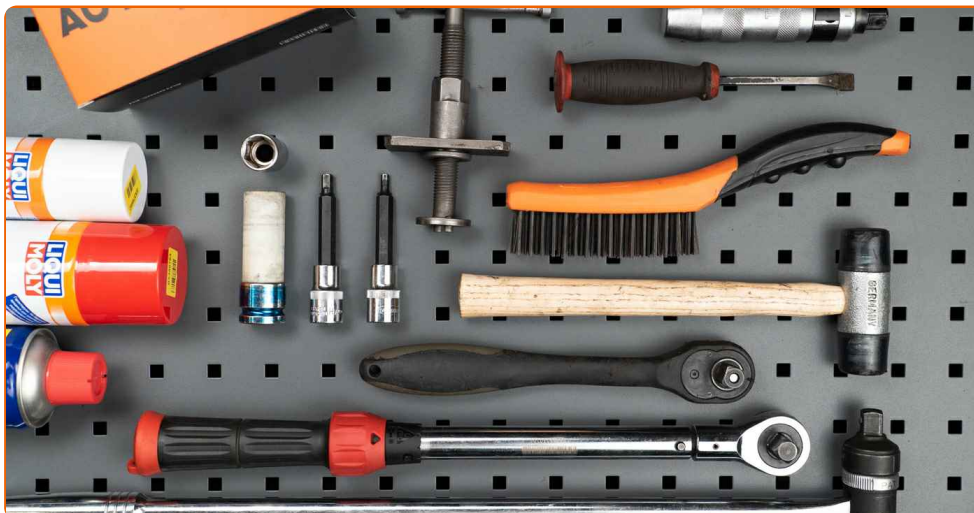
This replacement procedure can be used for:

BMW 3 Touring (E91) 330i 3.0, BMW 3 Touring (E91) 330d 3.0, BMW 3 Touring (E91) 330xi 3.0, BMW 3 Touring (E91) 330xd 3.0, BMW 3 Touring (E91) 335i 3.0, BMW 3 Touring (E91) 335d 3.0, BMW 3 Touring (E91) 325d 3.0, BMW 3 Touring (E91) 335xi 3.0, BMW 3 Touring (E91) 330d xDrive 3.0, BMW 3 Touring (E91) 330i xDrive 3.0, BMW 3 Touring (E91) 335i xDrive 3.0, BMW 3 Touring (E91) 330 i

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 Coupe (E92) 330i 3.0

REPLACEMENT: BRAKE DISCS – BMW 3 TOURING (E91). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- HEX bit No.H5.
- HEX bit No.H7.
- Drive socket # 17
- Wheel impact socket #17
- Brake caliper wind back tool
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Impact screwdriver
- Rubber mallet
- Fender cover
- Wheel chock

**Buy tools**

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

- 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.
- Warning! Shut down the engine before starting any work – BMW 3 Touring (E91).

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

1 Open the bonnet.

2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3 Remove the wiper arm cover.



4 Unscrew the brake fluid reservoir cap.



**5** Secure the wheels with chocks.

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



**7** Raise the rear of the car and secure on supports.

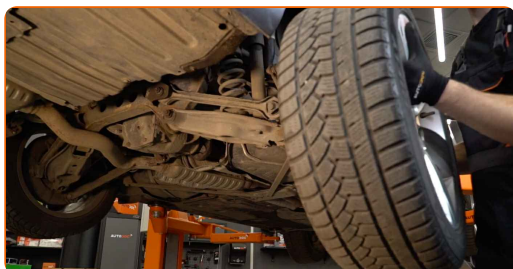
**8** Unscrew the wheel bolts.



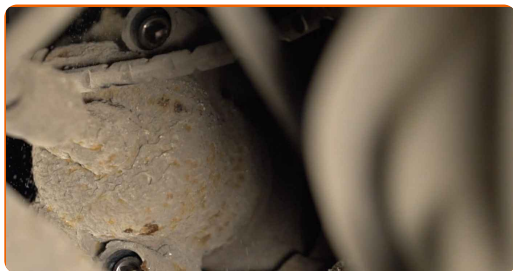
Replacement: brake discs – BMW 3 Touring (E91). AUTODOC recommends:

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

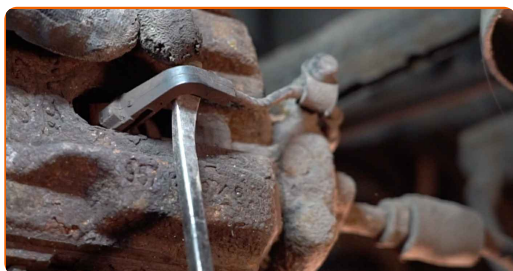
**9** Remove the wheel.



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



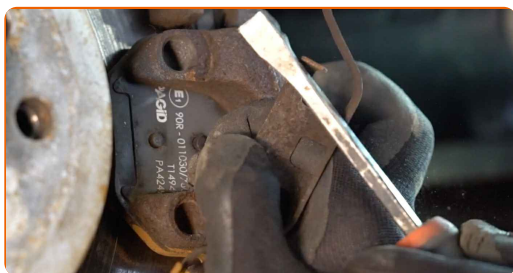
**11** Disconnect the brake pads wear sensor. Use a crowbar.



**Please note!**

- Some cars are not equipped with the brake pad wear sensor.

**12** Detach the brake caliper retaining spring. Use a crowbar.



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



**14**

Spread the brake pads. Use a crowbar.



**15**

Remove the brake caliper.



**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.

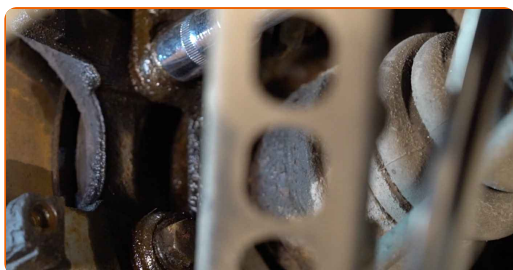
**16** Remove the brake pads.



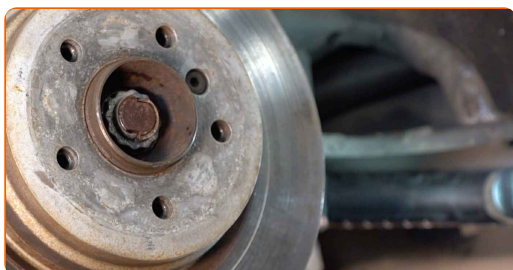
**17** Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



**18** Unscrew the caliper bracket fastening. Use a drive socket #17. Use a tap wrench.



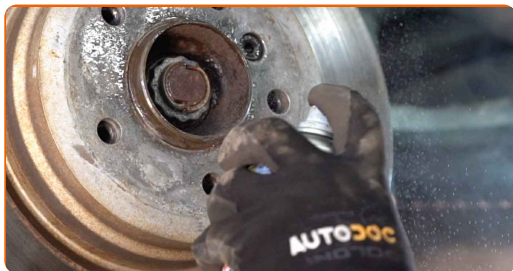
**19** Remove the caliper bracket.





20

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



21

Unscrew the brake disc fastening. Use HEX No.H5. Use an impact screwdriver.



22

Remove the brake disc.



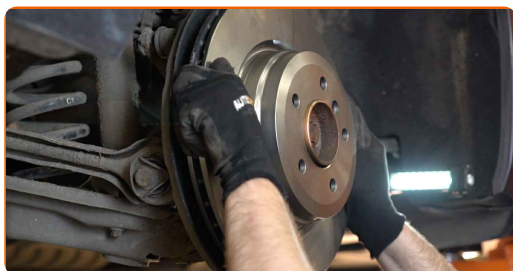
Replacement: brake discs – BMW 3 Touring (E91). Tip from AUTODOC:

- If necessary, use a rubber mallet.

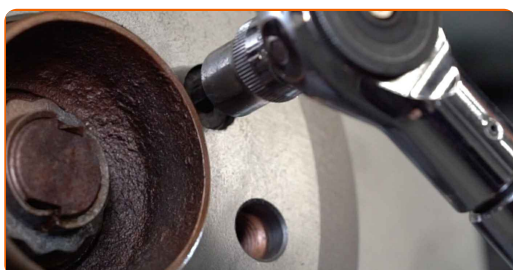
23

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

**24** Install the brake disc.



**25** Tighten the brake disc fastening. Use HEX No.H5. Use a torque wrench. Tighten it to 16 Nm torque.



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



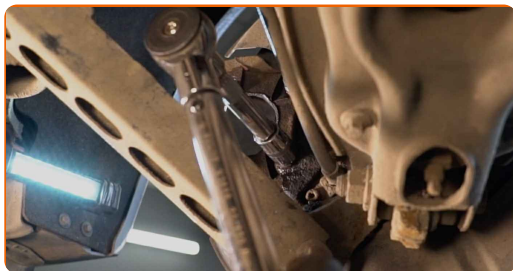
**AUTODOC recommends:**

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

**27** Install the brake caliper bracket.



**28** Tighten the brake caliper bracket. Use a drive socket #17. Use a torque wrench. Tighten it to 65 Nm torque.



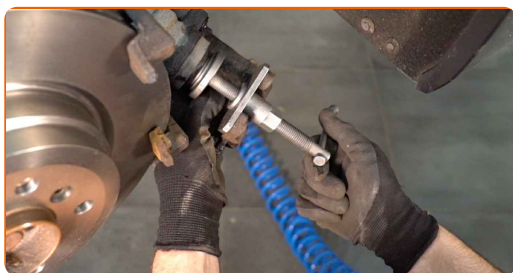
**29** Treat the brake caliper piston. Use a brake cleaner.



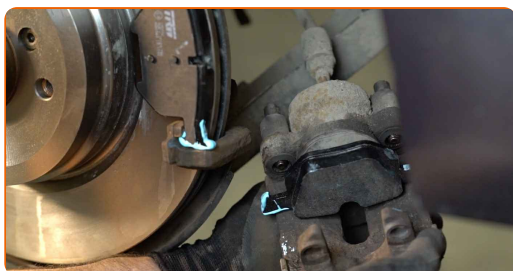
**Replacement: brake discs – BMW 3 Touring (E91). Tip:**

- After applying the spray, wait a few minutes.

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



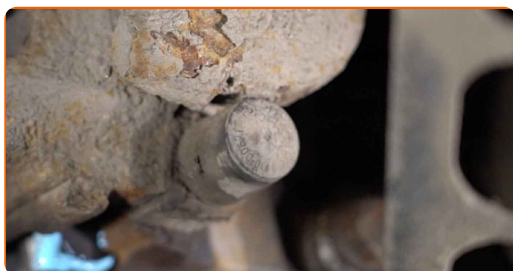
**31** Install the brake pads.



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



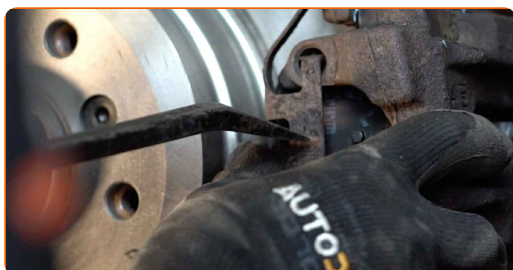
**33** Install the dust boot caps of the brake caliper guide pins.



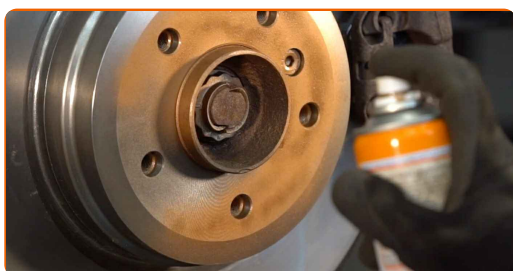
**34** Connect the brake pads wear sensor.



**35** Install the brake caliper retaining spring. Use a crowbar.



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



**37**

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.

**38**

Install the wheel.

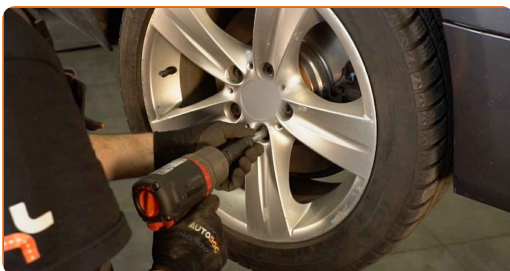


**Replacement: brake discs – BMW 3 Touring (E91). AUTODOC experts recommend:**

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

**39**

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



- 40** Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.



- 41** Remove the jacks and chocks.

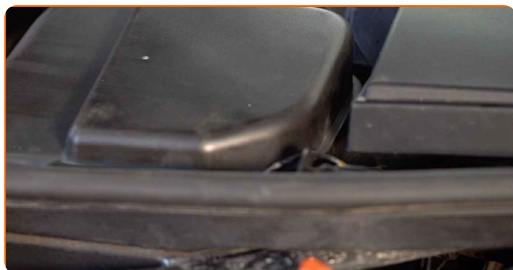
**AUTODOC recommends:**

- BMW 3 Touring (E91) – Press the brake pedal several times with the engine shut down until you feel the resistance built up.
- Check the brake fluid level in the expansion tank and refill if necessary.

- 42** Tighten the brake fluid reservoir cap.



- 43** Install the wiper arm cover.



**44** Remove the fender protection cover.

**45** Close the hood.

**WELL DONE!** 

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