

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:

BMW 5 Saloon (E39) 520i 2.0, BMW 5 Saloon (E39) 525tds 2.5, BMW 5 Saloon (E39) 523i 2.5, BMW 5 Saloon (E39) 528i 2.8, BMW 5 Saloon (E39) 540i 4.4, BMW 5 Saloon (E39) 535i 3.5, BMW 5 Touring (E39) 520i 2.0, BMW 5 Touring (E39) 523i 2.5, BMW 5 Touring (E39) 540i 4.4, BMW 5 Saloon (E39) 525td 2.5, BMW 5 Touring (E39) 528i 2.8, BMW 5 Saloon (E39) 530d 3.0, BMW 5 Touring (E39) 530d 3.0, BMW 5 Touring (E39) 525tds 2.5, BMW Z8 Roadster (E52) 4.9, (+ 10)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – BMW E39. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- HEX bit no.H6.
- HEX bit no.H7.
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Hammer
- Impact screwdriver
- Rubber mallet
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: wheel bearing – BMW E39. AUTODOC experts recommend:

- Do not re-use the bearing assembly of your BMW E39 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Warning! Shut down the engine before starting any work – BMW E39.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Secure the wheels with chocks.

**2**

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

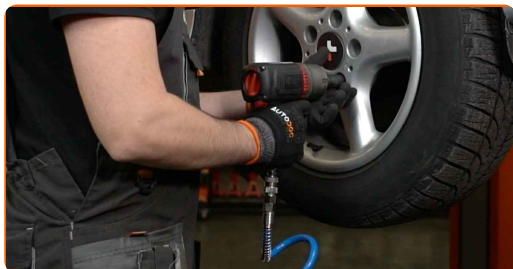
**3**

Raise the front of the car and secure on supports.



4

Unscrew the wheel bolts.

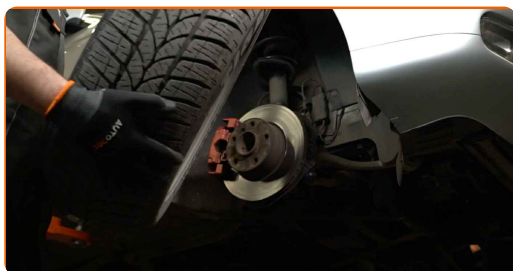


Replacement: wheel bearing – BMW E39. Tip:

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

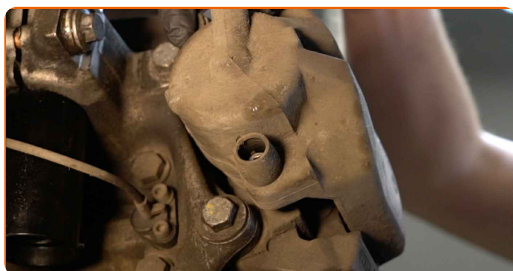
5

Remove the wheel.



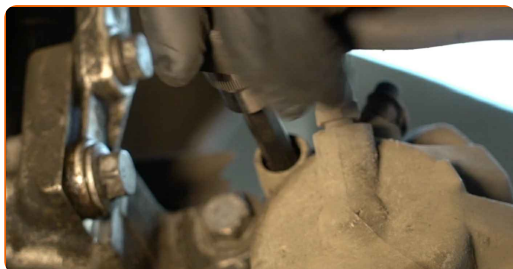
6

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



7

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



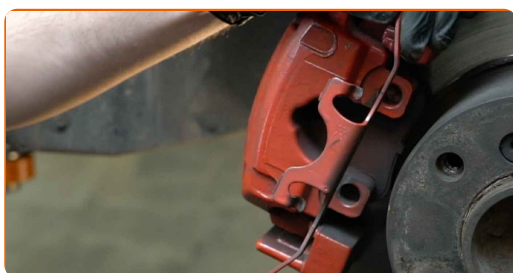
8

Spread the brake pads. Use a crowbar.



9

Detach the brake caliper retaining spring. Use a crowbar.



10

Remove the brake caliper.

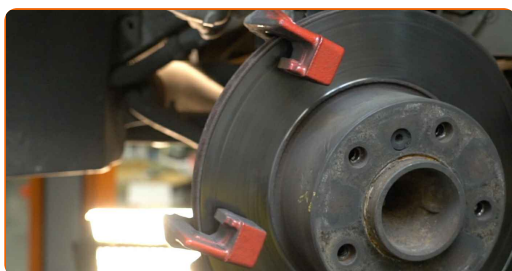


Replacement: wheel bearing – BMW E39. AUTODOC recommends:

- 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.

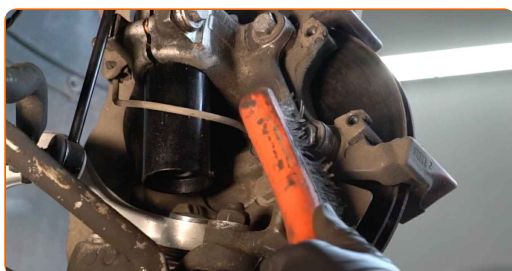
11

Remove the brake pads.



12

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



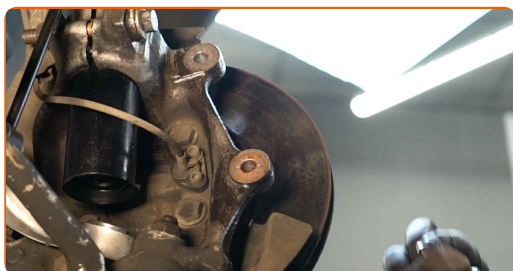
13

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



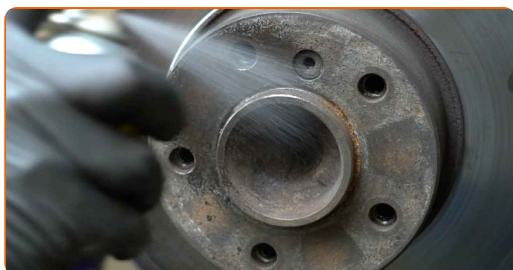
14

Remove the caliper bracket.



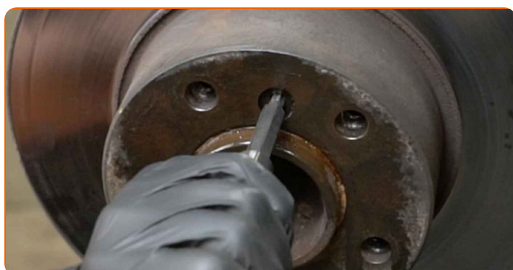
15

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



16

Unscrew the brake disc fastening. Use HEX No.H6. Use an impact screwdriver.



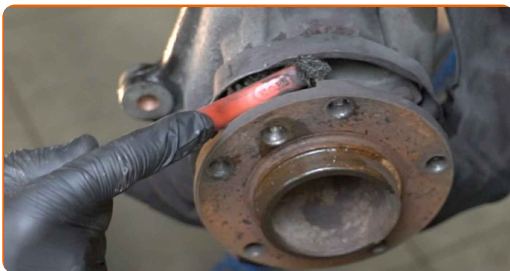
17 Remove the brake disc.



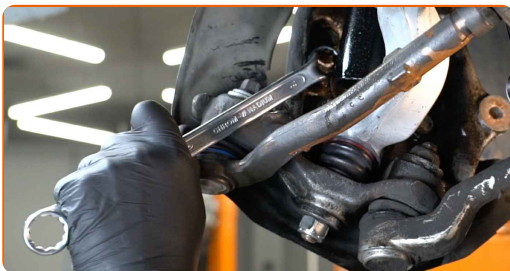
Replacement: wheel bearing – BMW E39. Tip:

- If necessary, use a rubber mallet.

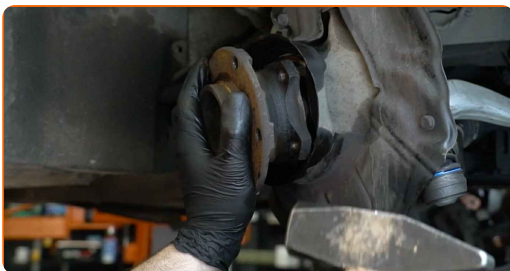
18 Clean the wheel hub fastener. Use a wire brush. Use WD-40 spray.



19 Unscrew the wheel hub axle nut. Use a combination spanner #18.



20 Remove the hub and the bearing together, since they are a sealed unit. Use a hammer.



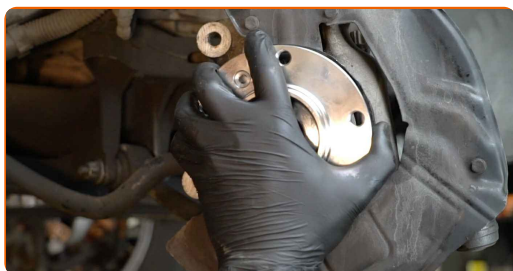
21

Clean the hub bearing mounting seat. Use a wire brush. Use all-purpose cleaning spray.



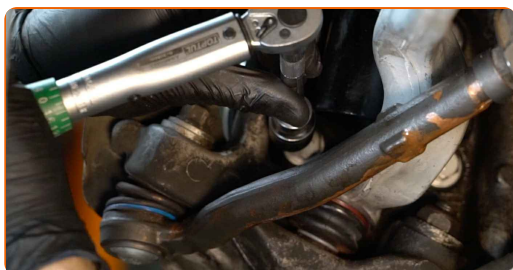
22

Install the new wheel hub with a bearing.



23

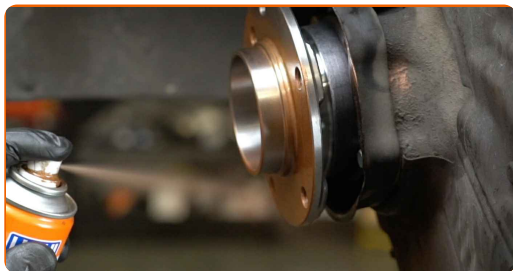
Tighten the hub. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



Replacement: wheel bearing – BMW E39. Tip from AUTODOC:

- The wheel bearing unit must not tilt on the axle pin.

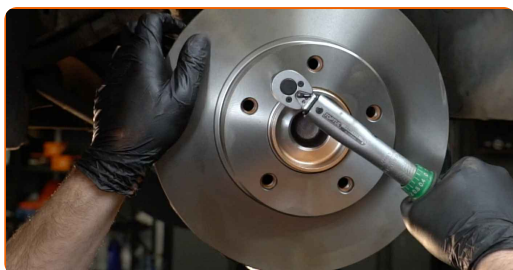
- 24 Treat the hub where it contacts the brake disk. Use copper grease.



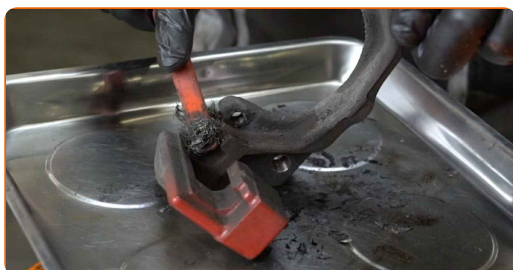
- 25 Install the brake disc.



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



- 27 Clean the brake caliper bracket from dirt and dust. Use a brake cleaner.



AUTODOC recommends:

- Replacement: wheel bearing – BMW E39. After applying the spray, wait a few minutes.