



How to change rear
wheel bearing on
MAZDA 3 Hatchback
(BK) – replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

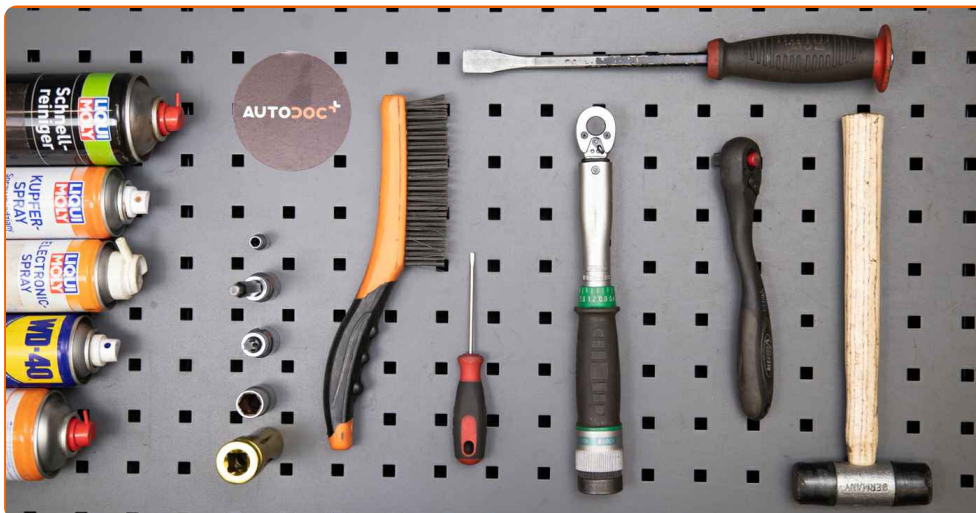
This replacement procedure can be used for:

MAZDA 3 Hatchback (BK) 1.6, MAZDA 3 Hatchback (BK) 2.0, MAZDA 3 Hatchback (BK) 1.6 DI Turbo, MAZDA 3 Hatchback (BK) 1.4, MAZDA 3 Hatchback (BK) 2.3 MZR, MAZDA 3 Hatchback (BK) 2.3 MZR Sport, MAZDA 3 Hatchback (BK) 2.3 DiSi Turbo MPS, MAZDA 3 Hatchback (BK) 2.3 MPS Turbo, MAZDA 3 Hatchback (BK) 2.0 MZR-CD, MAZDA 3 Hatchback (BK) 1.6 MZ-CD, MAZDA 3 Hatchback (BK) 2.3

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: MAZDA 3 Saloon (BK) 1.6

REPLACEMENT: WHEEL BEARING – MAZDA 3 HATCHBACK (BK). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Sealant
- Electronic spray
- Torque wrench
- HEX bit no.H7.
- Torx bit T50
- Drive socket # 6
- Drive socket # 14
- Wheel impact socket #19
- Ratchet wrench
- Crow bar
- Flat Screwdriver
- Rubber mallet
- Wheel chock

Buy tools

Replacement: wheel bearing – MAZDA 3 Hatchback (BK). Tip from AUTODOC experts:

- Do not re-use the bearing assembly of your MAZDA 3 Hatchback (BK) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – MAZDA 3 Hatchback (BK) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

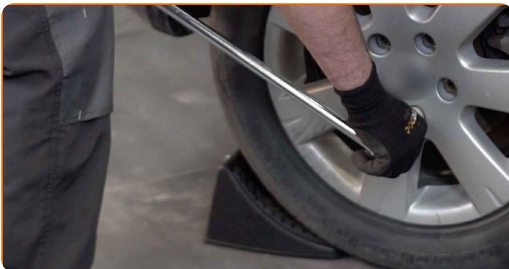
1

Secure the wheels with chocks.



2

Loosen the wheel mounting bolts. Use wheel impact socket #19.



3

Raise the rear of the car and secure on supports.

4

Unscrew the wheel bolts.

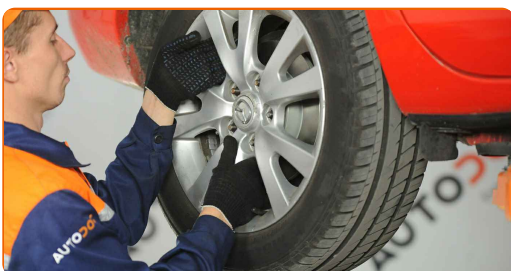


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
MAZDA 3 Hatchback (BK)

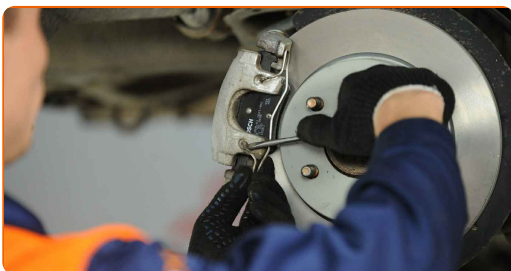
5

Remove the wheel.



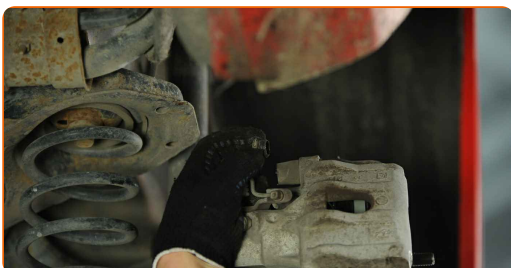
6

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



7

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



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

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



10 Spread the brake pads. Use a crowbar.

11 Remove the brake caliper.



AUTODOC recommends:

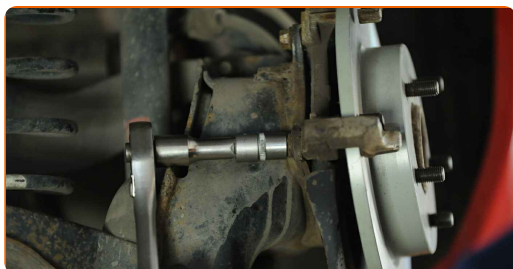
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, 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.

12 Remove the brake pads.

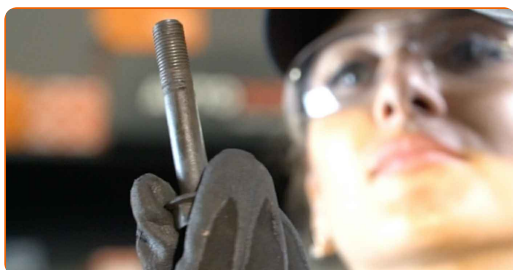


13 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

14 Unscrew the caliper bracket fastening. Use a drive socket #14. Use a ratchet wrench.



15 Remove the fastening bolts (2 pieces).



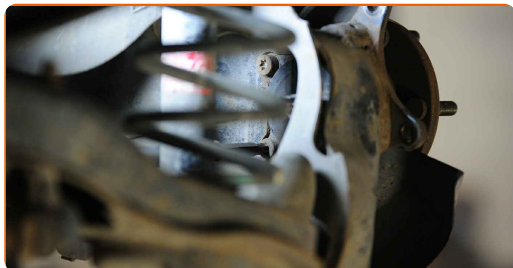
16 Remove the caliper bracket.

17 Remove the brake disc.

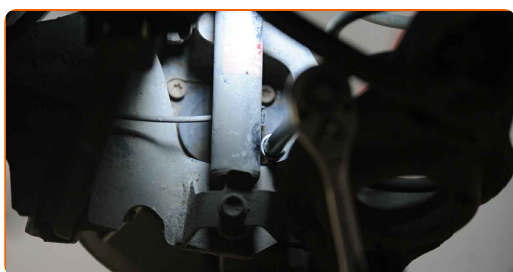


18 Clean the fasteners of the wheel hub bearing. Use a wire brush. Use WD-40 spray.

19.1 Unscrew the hub bearing mounting.



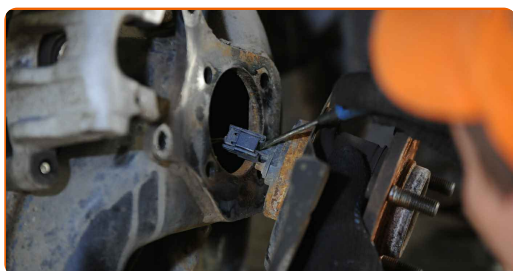
19.2 Use Torx T50. Use a ratchet wrench.



20 Remove the fastening bolts.

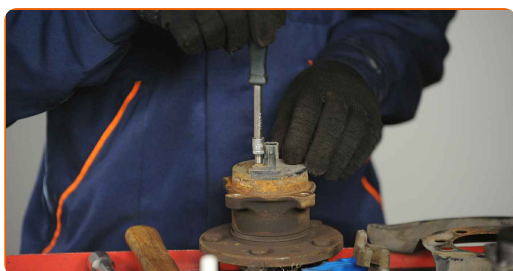
21 Remove the hub bearing together with the brake disc protection plate. Use a rubber mallet.

22 Detach the ABS sensor connector. Use a flat screwdriver.



23 Remove the brake disc cover.

24 Unscrew the ABS sensor fastener. Use a drive socket #6. Use a ratchet wrench.



25 Disconnect the ABS sensor.



26 Connect the ABS sensor.



27 Screw in the ABS sensor fastener. Use a drive socket #6. Use a torque wrench. Tighten it to 5 nm torque.

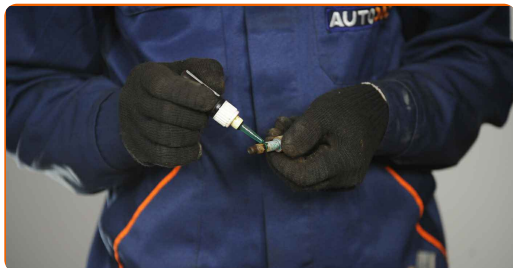


28 Clean the fasteners of the wheel hub bearing. Use a wire brush. Use WD-40 spray.

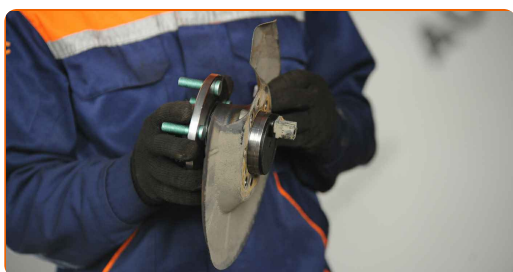


29 Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.

30 Treat the fasteners of the wheel hub bearing. Use a sealant.



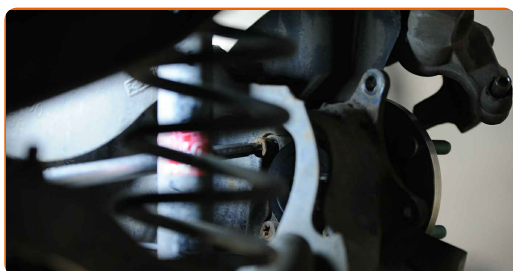
31 Install the brake disc cover.



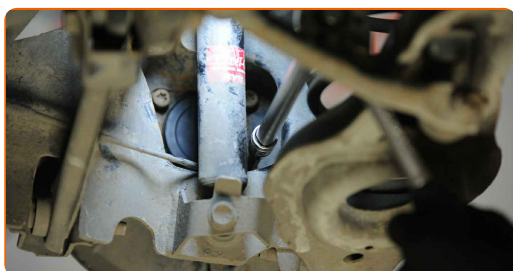
32 Install the hub bearing together with the brake disc protection plate.

33 Install the fastening bolts.

34.1 Tighten the fastener of the wheel hub bearing.

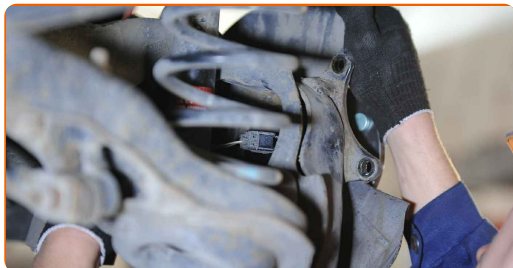


34.2 Use Torx T50. Use a torque wrench. Tighten it to 62 nm torque.



35 Treat the ABS sensor connector. Use electronic spray.

36 Attach the ABS sensor connector.



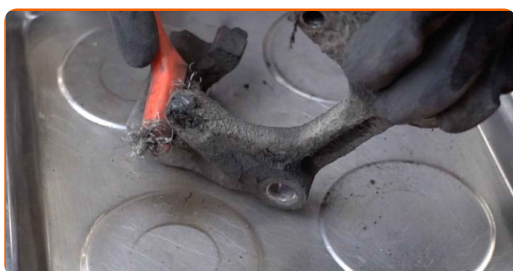
37 Treat the hub where it contacts the brake disk. Use copper grease.



38 Install the brake disc.



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



AUTODOC recommends:

- Replacement: wheel bearing – MAZDA 3 Hatchback (BK). After applying the spray, wait a few minutes.

40

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

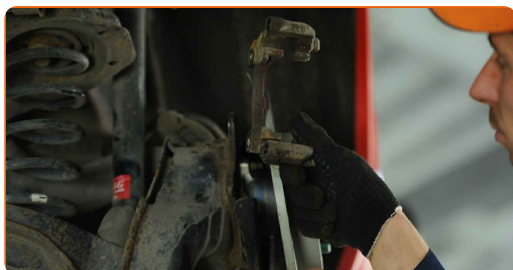
41

Treat the brake caliper bracket fasteners. Use a sealant.



42

Install the brake caliper bracket.

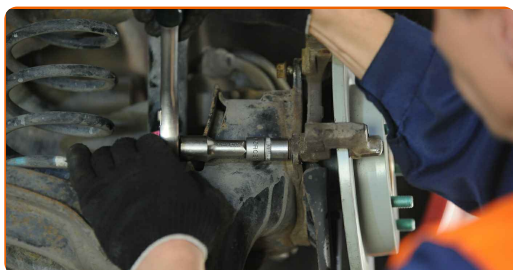


43

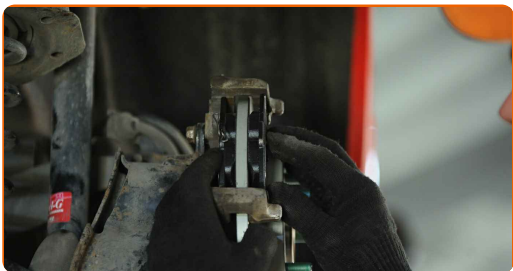
Install the fastening bolts (2 pieces).

44

Tighten the brake caliper bracket. Use a drive socket #14. Use a torque wrench. Tighten it to 65 Nm torque.



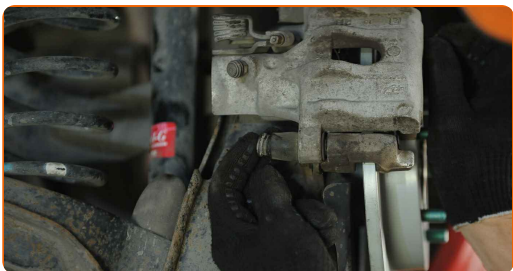
45 Install the brake pads.



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



47 Install the dust boot caps of the brake caliper guide pins.



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

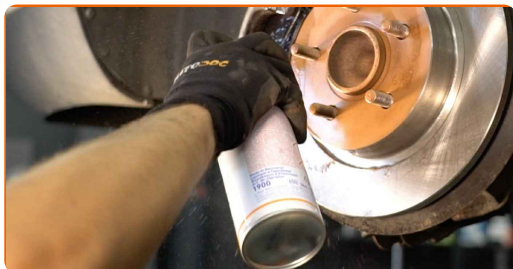


49 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



50

Clean the brake disk surface. Use a brake cleaner.

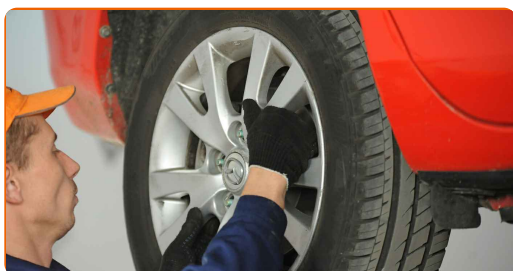


AUTODOC recommends:

- Replacement: wheel bearing – MAZDA 3 Hatchback (BK). After applying the spray, wait a few minutes.

51

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. MAZDA 3 Hatchback (BK)

52

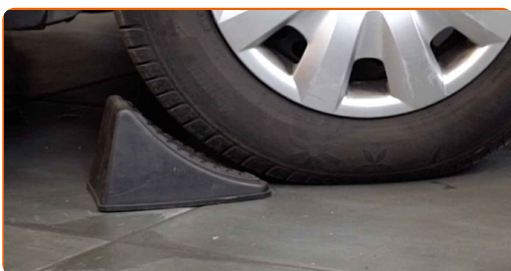
Screw in the wheel bolts. Use wheel impact socket #19.



- 53** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 118 nm torque.



- 54** Remove the jacks and chocks.



WELL DONE! 

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WHEEL BEARING: A WIDE SELECTION

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