



How to change rear  
wheel bearing on  
**MAZDA 3 Saloon (BL)** –  
replacement guide

### SIMILAR VIDEO TUTORIAL



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

#### **Important!**

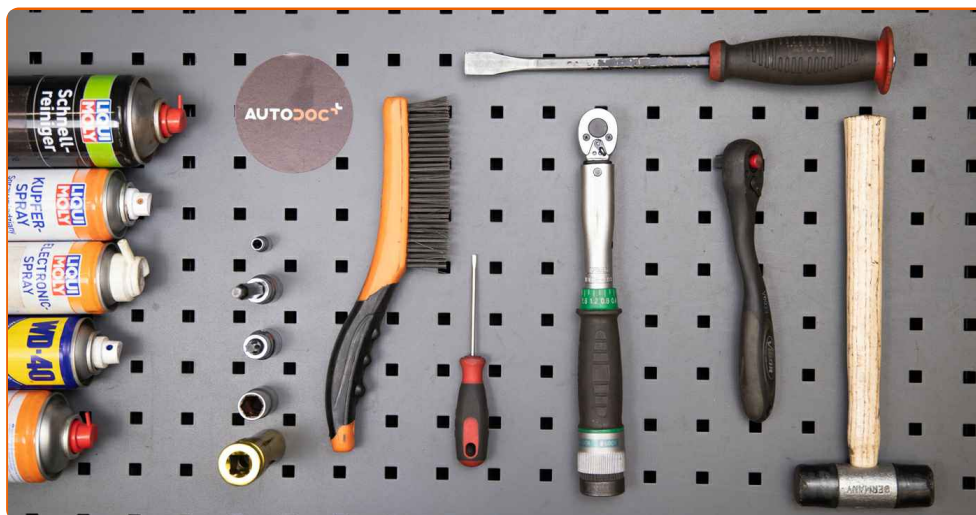
This replacement procedure can be used for:

MAZDA 3 Saloon (BL) 1.6 MZR CD, MAZDA 3 Saloon (BL) 1.6 MZR, MAZDA 3 Saloon (BL) 2.0 MZR, MAZDA 3 Saloon (BL) 2.0 MZR DISI, MAZDA 3 Saloon (BL) 2.2 MZR CD, MAZDA 3 Saloon (BL) 2.0

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: MAZDA 3 Saloon (BK) 1.6

**REPLACEMENT: WHEEL BEARING – MAZDA 3 SALOON (BL). 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 Saloon (BL). Tip from AUTODOC experts:

- Do not re-use the bearing assembly of your MAZDA 3 Saloon (BL) 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 Saloon (BL) – 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.



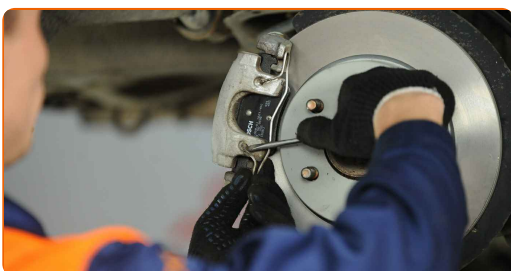
**AUTODOC recommends:**

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

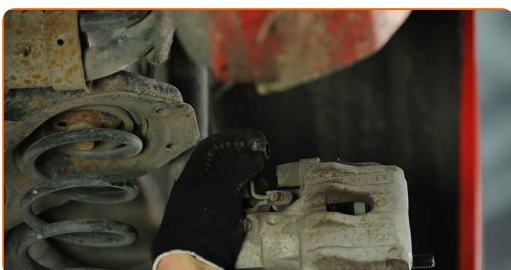
**5** Remove the wheel.



**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:**

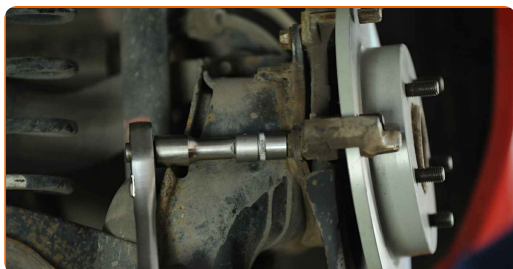
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result,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

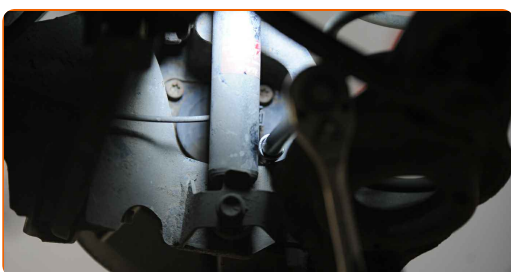


**18** Clean the fasteners of the wheel hub bearing. Use a wire brush. Use WD-40 spray.

**19.1** Unscrew the hub bearing mounting.



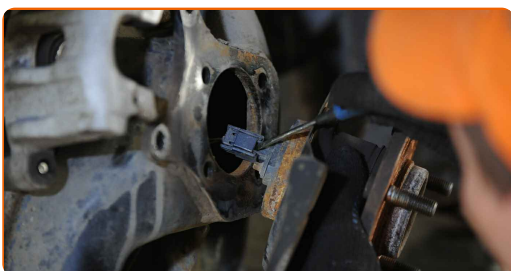
**19.2** Use Torx T50. Use a ratchet wrench.



**20** Remove the fastening bolts.

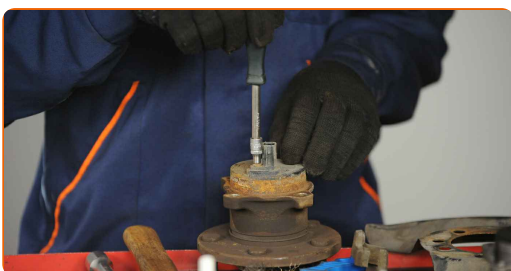
**21** Remove the hub bearing together with the brake disc protection plate. Use a rubber mallet.

**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.



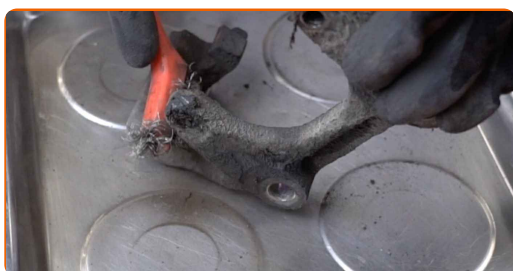
**37** Treat the hub where it contacts the brake disk. Use copper grease.



**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 Saloon (BL). After applying the spray, wait a few minutes.

**40**

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

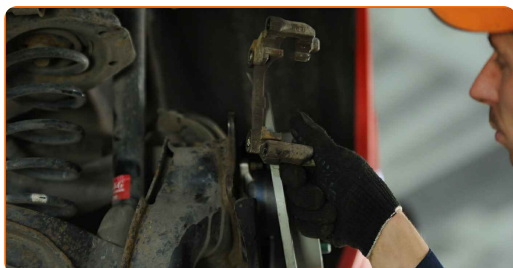
**41**

Treat the brake caliper bracket fasteners. Use a sealant.



**42**

Install the brake caliper bracket.

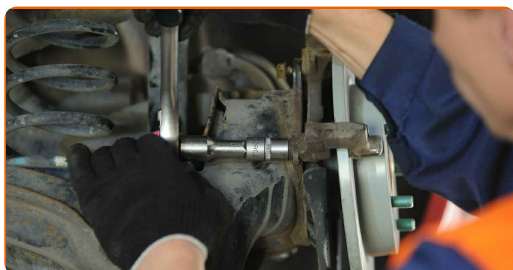


**43**

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.



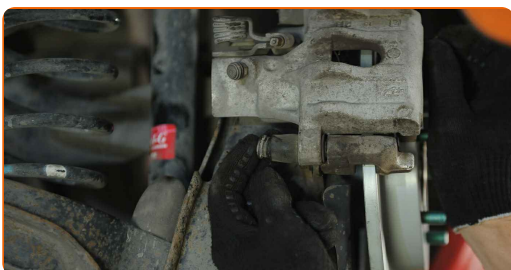
**45** Install the brake pads.



**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.

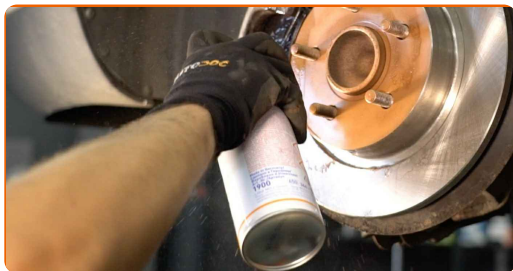


**49** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



50

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: wheel bearing – MAZDA 3 Saloon (BL). 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 Saloon (BL)

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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