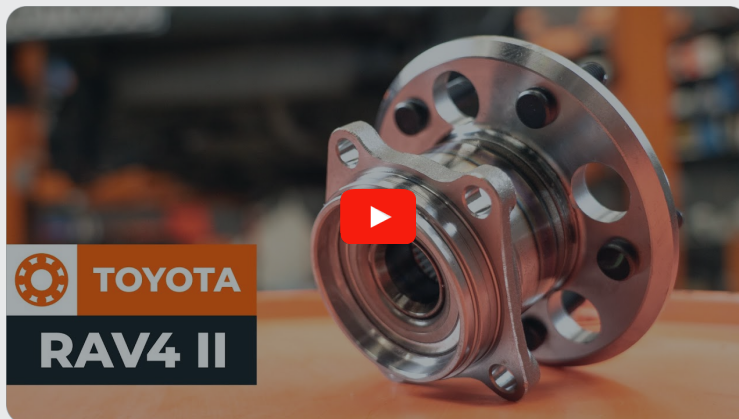




How to change rear
wheel bearing on
TOYOTA Mirai (JPD10) –
replacement guide

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:
TOYOTA Mirai (JPD10) FCV (JPD10_)

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: TOYOTA RAV 4 II (CLA2_, XA2_, ZCA2_, ACA2_) 2.0 4WD (ACA21, ACA20)

REPLACEMENT: WHEEL BEARING – TOYOTA MIRAI (JPD10). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Ceramic grease
- Copper grease
- Torque wrench
- Drive socket # 14
- Drive socket # 30
- Wheel impact socket #19
- Ratchet wrench
- Flat screwdriver
- Long nose pliers
- Crow bar
- Hydraulic transmission jack
- Wheel chock

Buy tools

AUTODOC recommends:

- Do not re-use the bearing assembly of your TOYOTA Mirai (JPD10) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – TOYOTA Mirai (JPD10) – 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 car.

Replacement: wheel bearing – TOYOTA Mirai (JPD10). AUTODOC experts recommend:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

4

Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
TOYOTA Mirai (JPD10)

5

Remove the wheel.



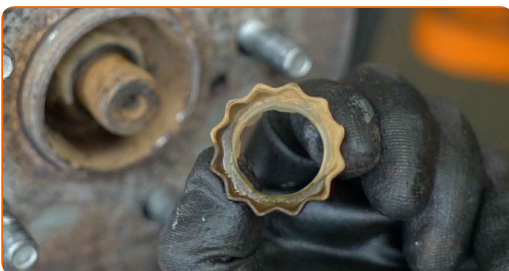
6

Remove the cotter pin. Use a crowbar.



7

Remove the wheel hub bearing retaining ring. Use a crowbar.



8 Install the wheel.

AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. TOYOTA Mirai (JPD10)

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

10 Lower the car.

11 Loosen the fastener of the driveshaft. Use a drive socket #30.



12 Raise the car.

Replacement: wheel bearing – TOYOTA Mirai (JPD10). AUTODOC recommends:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

13 Unscrew the wheel bolts.



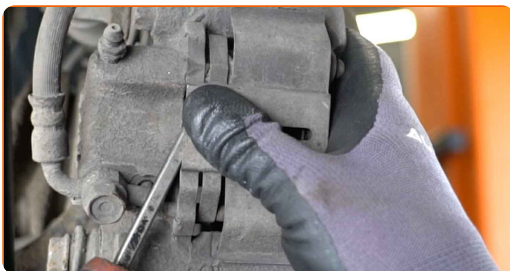
Replacement: wheel bearing – TOYOTA Mirai (JPD10). AUTODOC experts recommend:

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

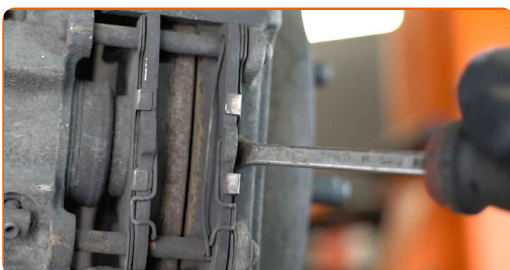
14 Remove the wheel.



15 Detach the brake caliper retaining spring. Use a crowbar.



16 Spread the brake pads. Use a crowbar.



17

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



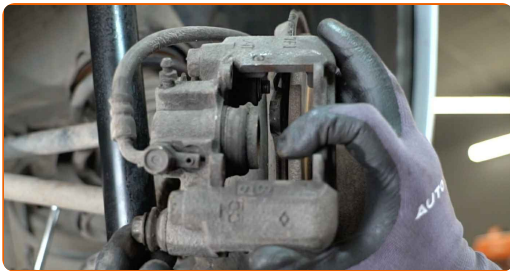
18

Unscrew the brake caliper fasteners. Use a drive socket #14. Use a ratchet wrench.



19

Remove the brake caliper.



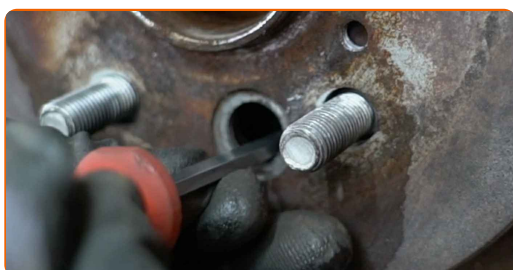
AUTODOC recommends:

- 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.

20 Remove the rubber plug. Use a crowbar.



21 Release the parking brake adjuster. Use a flat screwdriver.



22 Remove the brake disc.



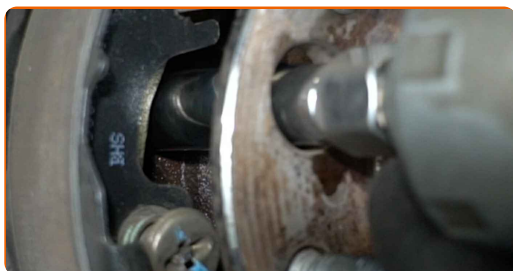
23 Remove the left brake shoe spring of the parking brake. Use long nose pliers. Use a crowbar.



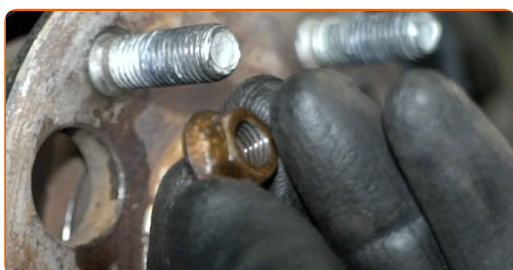
24 Treat the wheel hub bearing fasteners. Use WD-40 spray.



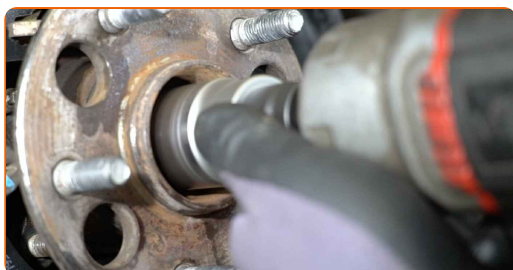
25 Unscrew the wheel hub bearing fasteners. Use a drive socket #14. Use a ratchet wrench.



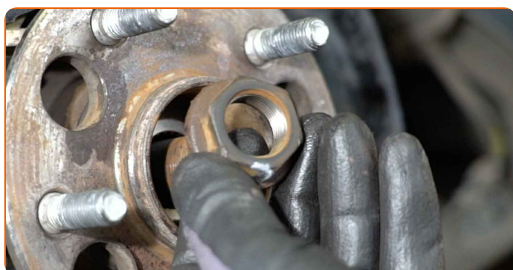
26 Remove the fastening nuts.



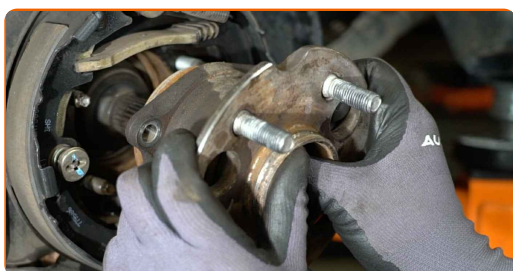
27 Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #30. Use a ratchet wrench.



28 Remove the fastening nut.



29 Remove the wheel hub bearing.



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



31 Treat the splines of the driveshaft CV joint. Use copper grease.

32 Treat the wheel bearing mounting seat. Use copper grease.



33 Install a new wheel hub bearing.



34 Install the fastening nut.



35 Install the fastening nuts.

36 Support the rear knuckle. Use a hydraulic transmission jack.

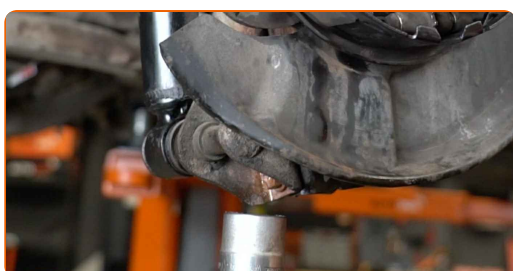
- 37** Tighten the wheel hub bearing fasteners. Use a drive socket #14. Use a torque wrench. Tighten it to 50 Nm torque.



- 38** Screw in the fastener of the CV axle. Use a drive socket #30. Use a ratchet wrench.



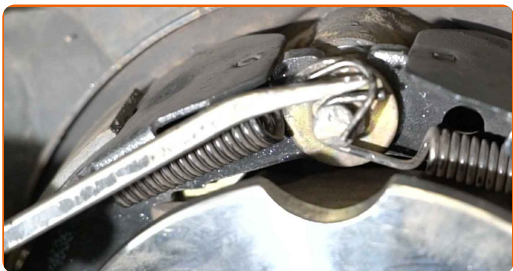
- 39** Remove the support from under the rear knuckle.



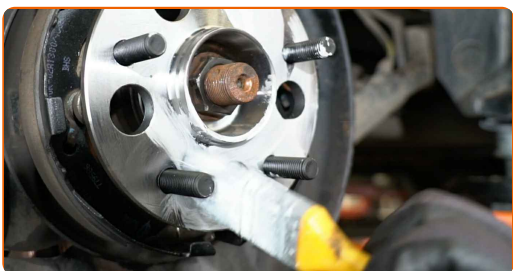
AUTODOC recommends:

- Replacement: wheel bearing – TOYOTA Mirai (JPD10). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

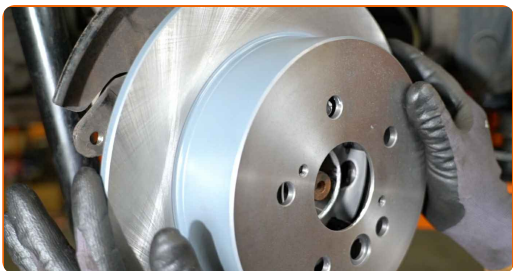
40 Install the left brake shoe spring of the parking brake. Use a crowbar.



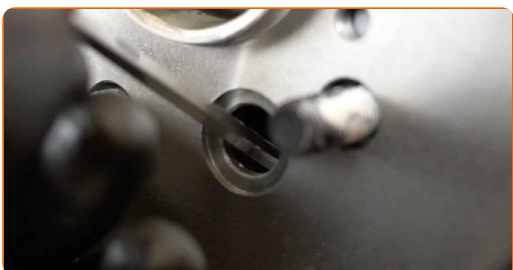
41 Treat the hub where it contacts the brake disk. Use ceramic grease.



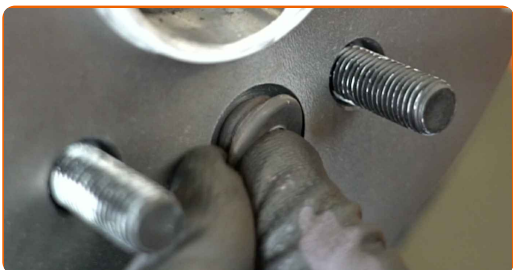
42 Install the brake disc.



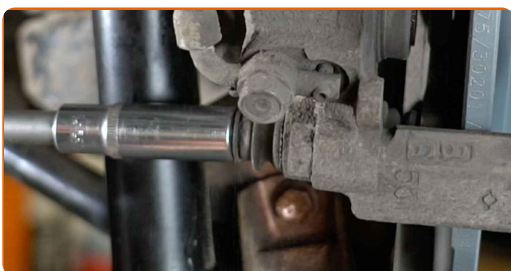
43 Set the parking brake adjuster in the correct position. Use a flat screwdriver.



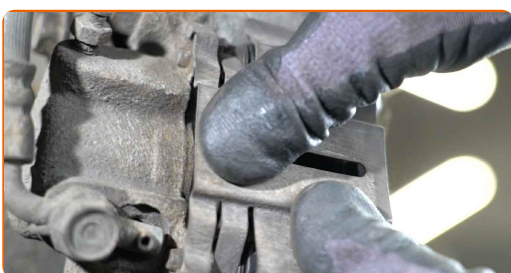
44 Install the rubber plug. Use a crowbar.



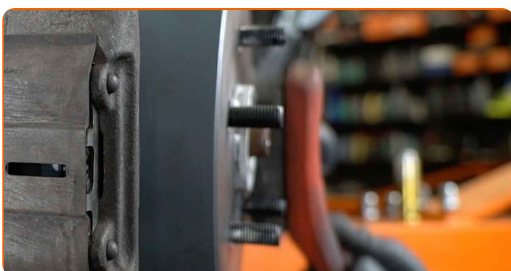
- 45 Install the brake caliper and fix it. Tighten the brake caliper fasteners. Use a drive socket #14. Use a torque wrench. Tighten it to 44 Nm torque.



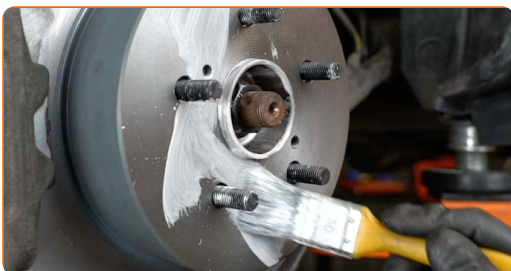
- 46 Install the brake caliper retaining spring.



- 47 Clean the wheel rim mounting seat. Use a wire brush.

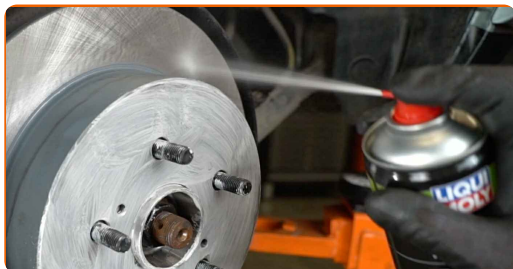


- 48 Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



49

Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- After applying the spray, wait a few minutes.

50

Install the wheel.

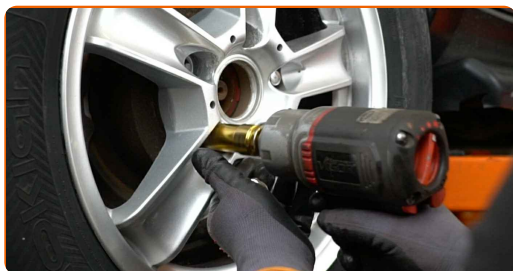


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. TOYOTA Mirai (JPD10)

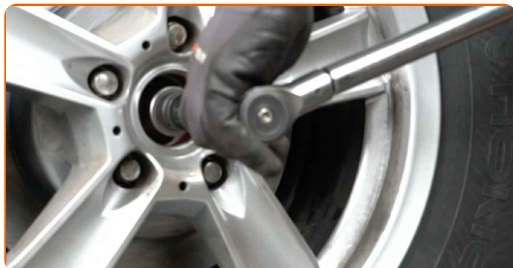
51

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



52 Lower the car.

53 Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 216 Nm torque.

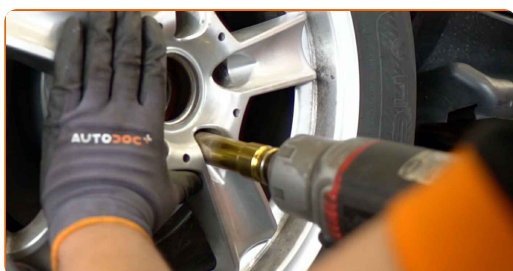


54 Raise the car.

AUTODOC recommends:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

55 Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. TOYOTA Mirai (JPD10)

56 Remove the wheel.



57 Install the wheel hub bearing retaining ring.



58 Install the cotter pin. Use a crowbar.



59 Treat the CV axle fastener. Use copper grease.

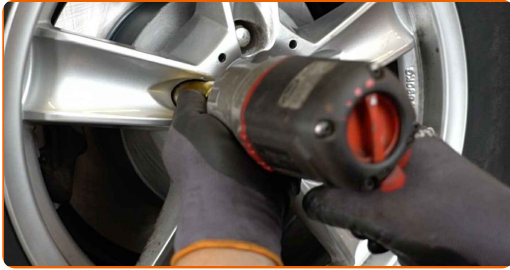
60 Install the wheel.



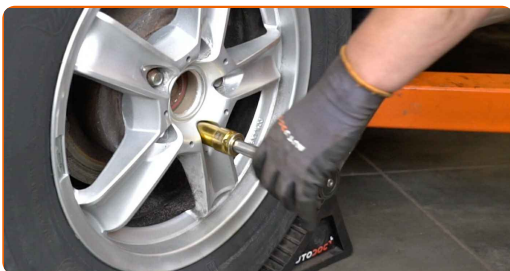
AUTODOC recommends:

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

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



62 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 103 Nm torque.



63 Remove the jacks and chocks.



Replacement: wheel bearing – TOYOTA Mirai (JPD10). Professionals recommend:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and refill if necessary.

WELL DONE! 

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WHEEL BEARING: A WIDE SELECTION

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