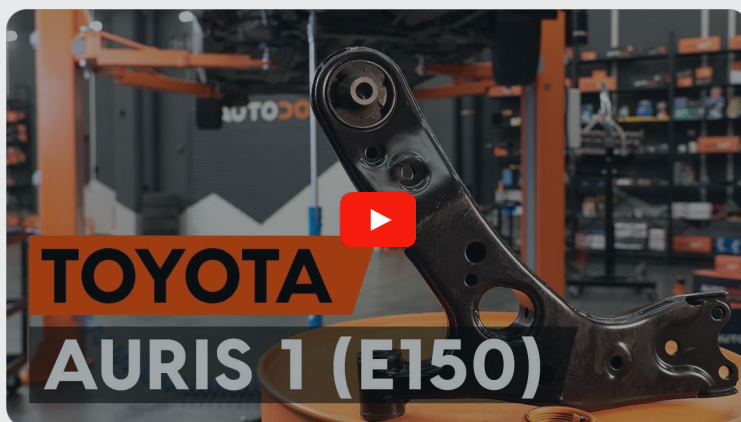




How to change front
lower arm on **TOYOTA**
Mirai (JPD10) –
replacement guide

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 Auris Hatchback (E15) 1.8 Hybrid (ZWE150_)

REPLACEMENT: FRONT LOWER ARM – TOYOTA MIRAI (JPD10). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #22
- Drive socket # 10
- Drive socket # 14
- Drive socket # 17
- Drive socket # 22
- Wheel impact socket #21
- Ratchet wrench
- Torque wrench
- Tap wrench
- Clip removal tool
- Crow bar
- Hydraulic transmission jack
- Wheel chock

Buy tools

Replacement: front lower arm – TOYOTA Mirai (JPD10). Tip from AUTODOC experts:

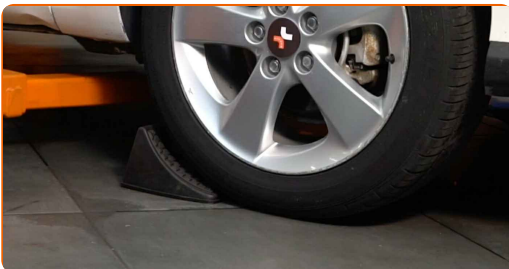
- The replacement procedure is identical for the left and right lower control arms.
- All work should be done with the engine stopped.

REPLACEMENT: FRONT LOWER ARM – TOYOTA MIRAI (JPD10). TAKE THE FOLLOWING STEPS:

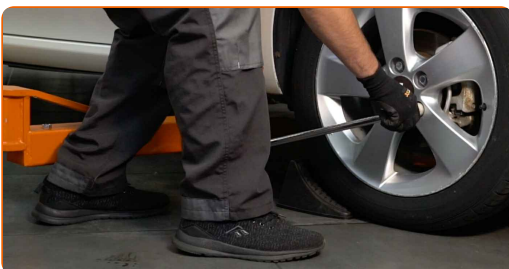
1 Open the bonnet.

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

3 Secure the wheels with chocks.

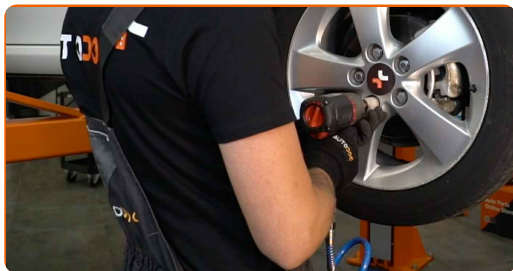


4 Loosen the wheel mounting bolts. Use wheel impact socket #21.



5 Raise the front of the car and secure on supports.

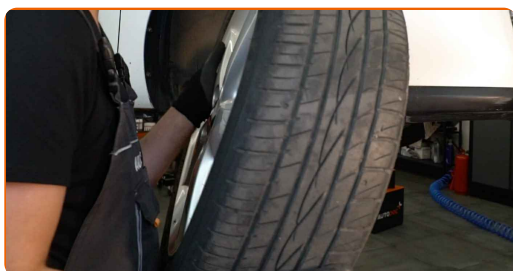
6 Unscrew the wheel bolts.



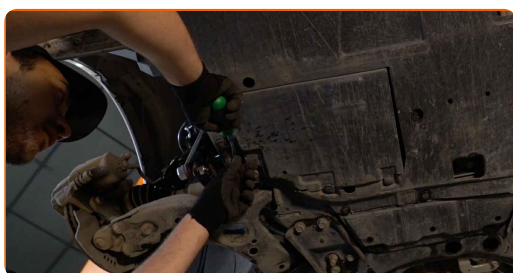
AUTODOC recommends:

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

7 Remove the wheel.



8 Undo the fasteners of the oil pan lower cover. Use a drive socket #10. Use a ratchet wrench. Use a clip removal tool.



9 Remove the oil pan cover.



10

Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



Replacement: front lower arm – TOYOTA Mirai (JPD10). AUTODOC recommends:

- After applying the spray, wait a few minutes.
- Wear protective goggles.

11

Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #17.

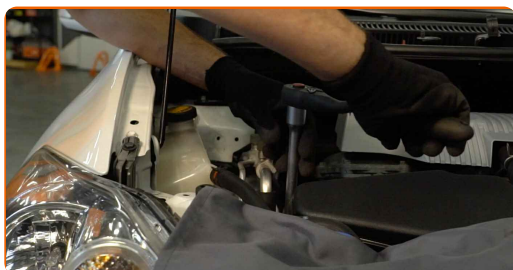


12

Lower the car.

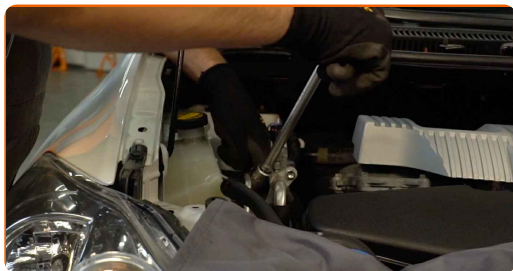
13

Unscrew the fasteners of the coolant reservoir. Use a drive socket #14. Use a ratchet wrench.



14

Unscrew the upper fastener of the engine mount. Use a drive socket #17. Use a ratchet wrench.

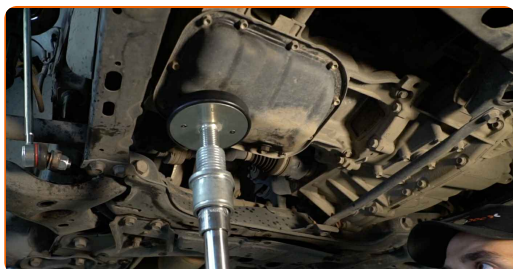


15

Raise the front of the car and secure on supports.

16

Support the engine in the oil pan area.

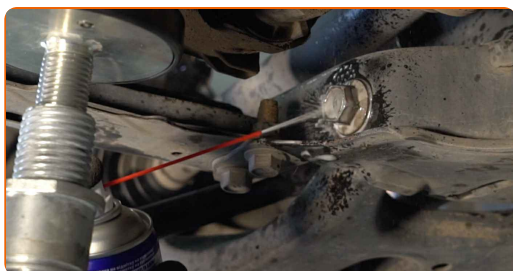


Replacement: front lower arm – TOYOTA Mirai (JPD10). Tip:

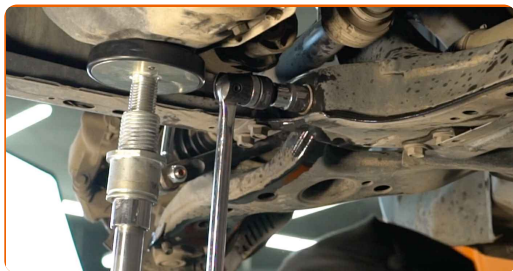
- Make sure that the engine is supported.

17

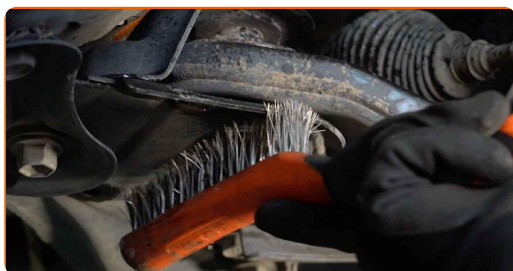
Clean the fasteners connecting the control arm to the subframe. Use a wire brush. Use WD-40 spray.



18 Unscrew the front arm fastener. Use a drive socket #22. Use a tap wrench.

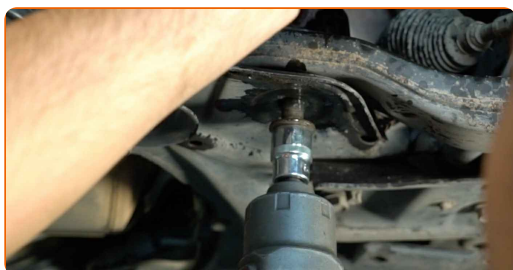


19 Remove the front fastener of the control arm.

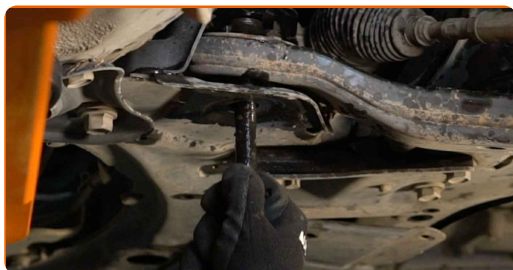


20 Clean the fasteners connecting the control arm to the subframe. Use a wire brush. Use WD-40 spray.

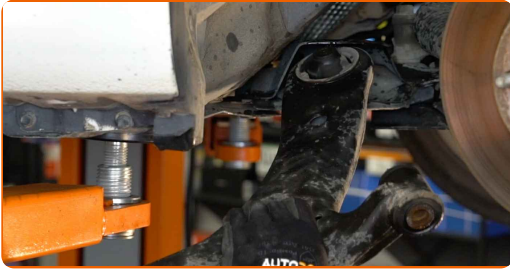
21 Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #22. Use a drive socket #22. Use a tap wrench.



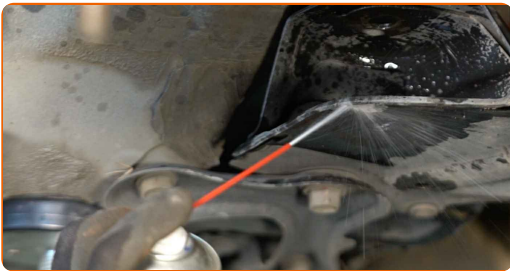
22 Remove the rear fastener of the control arm.



23 Remove the arm. Use a crowbar.



24 Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.



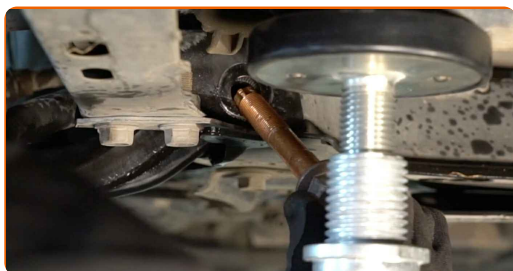
25 Install a new arm.



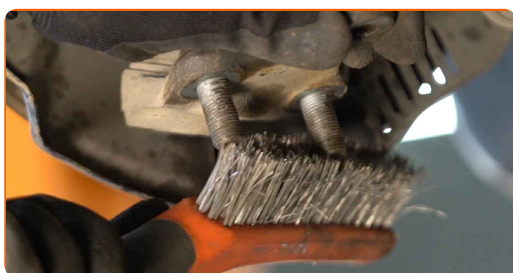
Replacement: front lower arm – TOYOTA Mirai (JPD10). Tip from AUTODOC experts:

- During the installation process, use only new bolts and nuts.
- Do not damage the ball joint cover.

26 Install the front fastener of the arm.



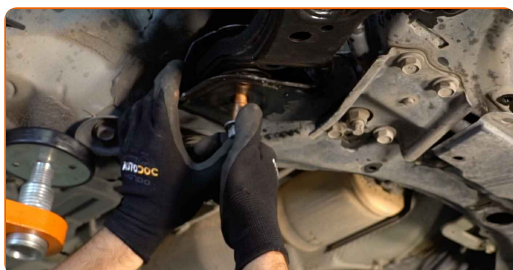
27 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



28 Screw the fasteners of the ball joint. Use a drive socket #17. Use a ratchet wrench.

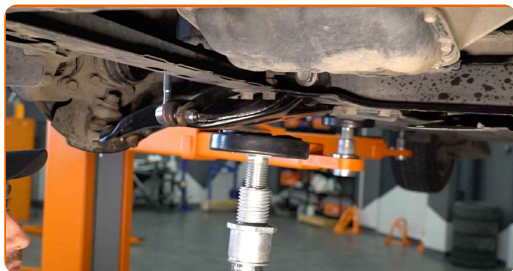


29 Install the rear fastener of the arm.



30 Screw the rear fastener connecting the control arm to the subframe. Use a combination spanner #22. Use a drive socket #22. Use a ratchet wrench.

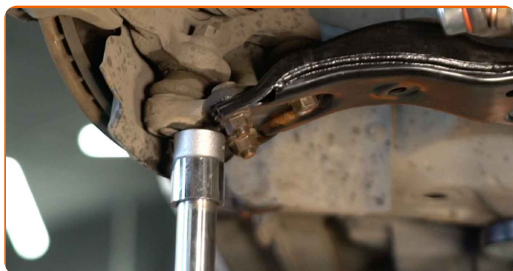
31 Remove the hydraulic transmission jack.



AUTODOC recommends:

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

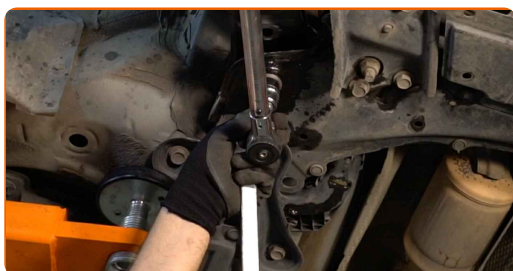
32 Support the arm. Use a hydraulic transmission jack.



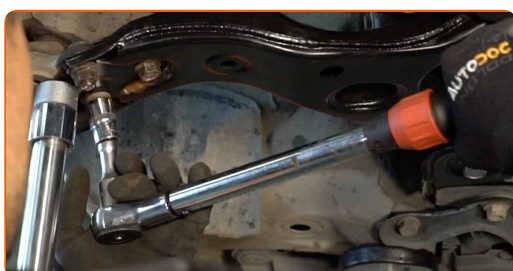
33 Tighten the front fastener connecting the control arm to the subframe. Use a drive socket #22. Use a torque wrench. Tighten it to 233 Nm torque.



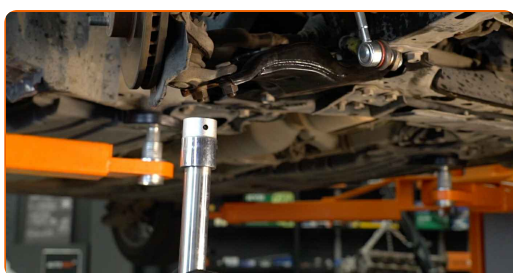
- 34** Tighten the rear fastener of the control arm. Use a combination spanner #22. Use a drive socket #22. Use a torque wrench. Tighten it to 233 Nm torque.



- 35** Tighten the ball joint fastener. Use a drive socket #17. Use a torque wrench. Tighten it to 89 nm torque.



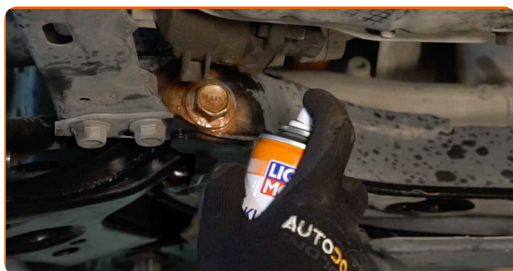
- 36** Remove the support from under the arm.



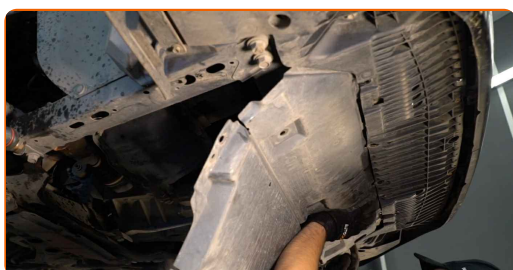
Replacement: front lower arm – TOYOTA Mirai (JPD10). Professionals recommend:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

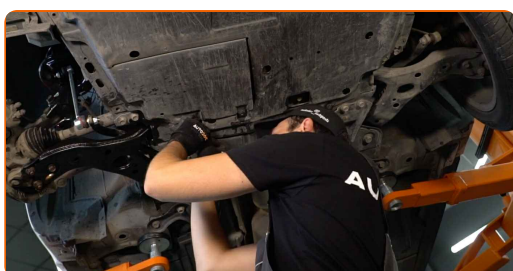
37 Treat all joints of the arm. Use copper grease.



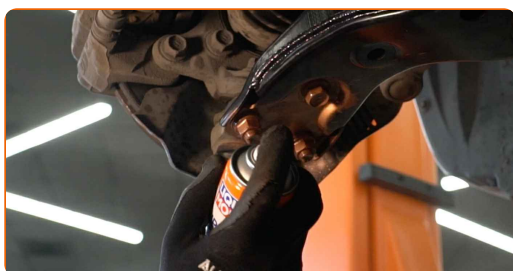
38 Reinstall the oil pan lower cover.



39 Tighten the fasteners of the oil pan lower cover. Use a drive socket #10. Use a ratchet wrench. Use a clip removal tool.

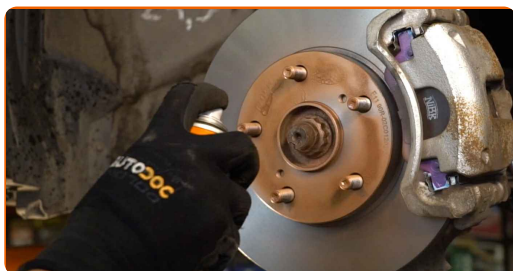


40 Treat all joints of the arm. Use copper grease.



41

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



42

Clean the brake disk surface. Use a brake cleaner.

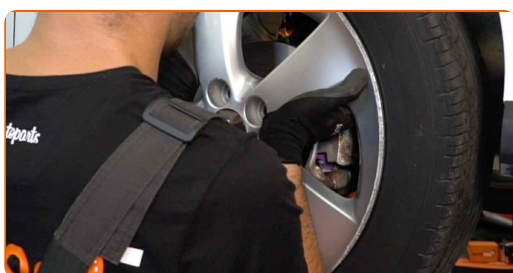


AUTODOC recommends:

- Replacement: front lower arm – TOYOTA Mirai (JPD10). After applying the spray, wait a few minutes.

43

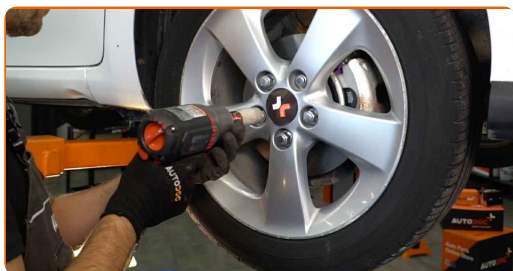
Install the wheel.



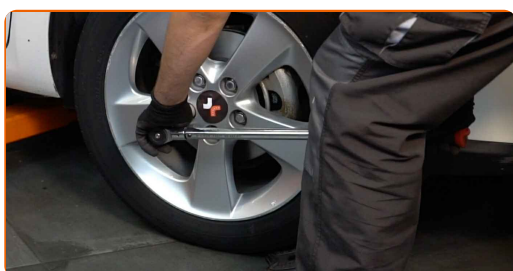
AUTODOC recommends:

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

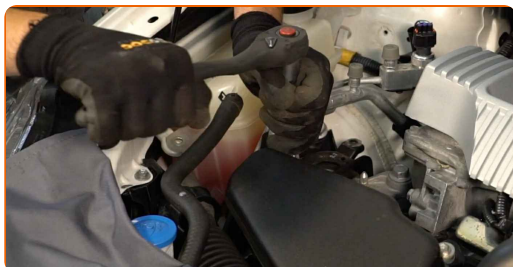
44 Screw in the wheel bolts. Use wheel impact socket #21.



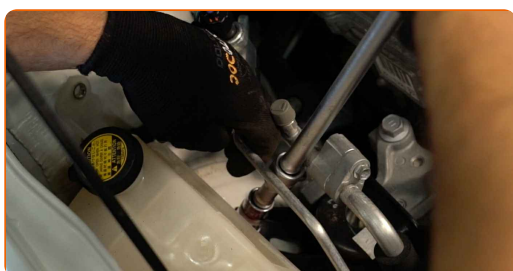
45 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 103 nm torque.



46 Tighten the upper fastener of the engine mount. Use a drive socket #17. Use a torque wrench. Tighten it to 75 nm torque.



47 Screw in the coolant reservoir fasteners. Use a drive socket #14. Use a ratchet wrench.



48 Remove the fender protection cover.

49 Close the hood.

50

Remove the jacks and chocks.



WELL DONE! 

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