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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: AXLE AND DIFFERENTIAL: FRONT AXLE HUB BOLT: REPLACEMENT; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

REPLACEMENT

CAUTION / NOTICE / HINT

The necessary procedures (adjustment, calibration, initialization, or registration) that must be performed after parts are removed and installed, or replaced during front axle hub bolt replacement are shown below.

Necessary Procedures After Parts Removed/Installed/Replaced

REPLACED PART OR PERFORMED PROCEDURE	NECESSARY PROCEDURE	EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	LINK
Tires	<ul style="list-style-type: none"> Initialization*1*2 Tire Position Identification*1*2 	Tire Pressure Warning System	Refer to Procedures Necessary When Replacing Parts (for Tire Pressure Warning System) table below INFO
	Rear television camera assembly optical axis (Back camera position setting)	Parking Assist Monitor System	INFO
	Parking assist ECU initialization*3	Panoramic View Monitor System	INFO
		Advanced Park	INFO

*1: Also necessary after performing a tire rotation.

*2: It is not necessary to perform this procedure if the tire pressure warning valve and transmitters are installed to the same location.

*3: The vehicle height changes because of tire replacement.

HINT:

When the cable is disconnected / reconnected to the auxiliary battery terminal, systems temporarily stop operating. However, each system has a function that completes learning the first time the system is used.

Learning completes when vehicle is driven

EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Front Camera System	Drive the vehicle straight ahead at 35 km/h (22 mph) or more for 5 second or more.	INFO

Learning completes when vehicle is operated normally

EFFECT/INOPERATIVE FUNCTION WHEN NECESSARY PROCEDURE NOT PERFORMED	NECESSARY PROCEDURE	LINK
Power Door Lock Control System*1 <ul style="list-style-type: none"> Back door opener 	Perform door unlock operation with door control switch or electrical key transmitter sub-assembly switch.	INFO
Power Back Door System*2	Reset back door close position	INFO
Air Conditioning System	<p>for HEV Model:</p> <p>After the ignition switch is turned to ON, the servo motor standard position is recognized.</p> <p>for PHEV Model:</p> <p>After the ignition switch is turned to ON, the servo motor and expansion valve standard position is recognized.</p>	-
<p>*1: w/o Power Back Door System</p> <p>*2: w/ Power Back Door System</p>		

NOTICE:

- When the brake pedal is first depressed after replacing the brake pads or pushing back the disc brake piston, DTCs may be stored. As there is no malfunction, clear the DTC.
- While the auxiliary battery is connected, even if the ignition switch is off, the brake control system activates when the brake pedal is depressed or any door courtesy switch turns on. Therefore, when servicing the brake system components, do not operate the brake pedal or open/close the doors while the auxiliary battery is connected.

HINT:

- Use the same procedure for the RH side and LH side.
- The following procedure is for the LH side.

PROCEDURE

1. PRECAUTION

NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) auxiliary battery terminal.

[Click here](#) [INFO](#)

2. DISABLE BRAKE CONTROL

[Click here](#) [INFO](#)

3. REMOVE FRONT WHEEL

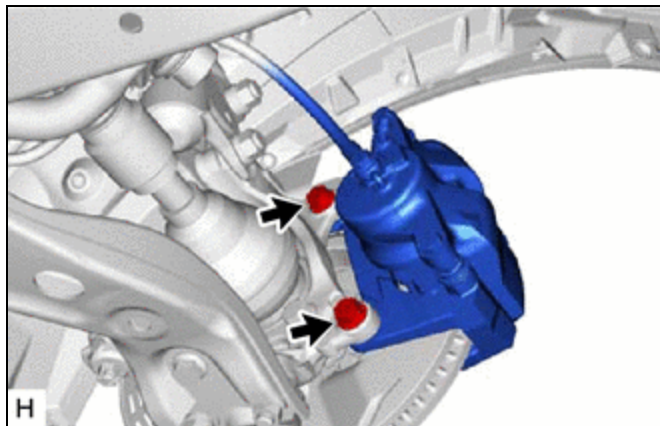
[Click here](#) [INFO](#)

4. SEPARATE FRONT DISC BRAKE CALIPER ASSEMBLY

- (a) Remove the 2 bolts and separate the front disc brake caliper assembly from the steering knuckle.

NOTICE:

Use wire or an equivalent tool to keep the front disc brake caliper assembly from hanging by the front flexible hose.



5. REMOVE FRONT DISC

Click here [INFO](#)

6. REMOVE FRONT AXLE HUB BOLT

- (a) Temporarily install 2 service nuts to the front axle hub bolts as shown in the illustration.

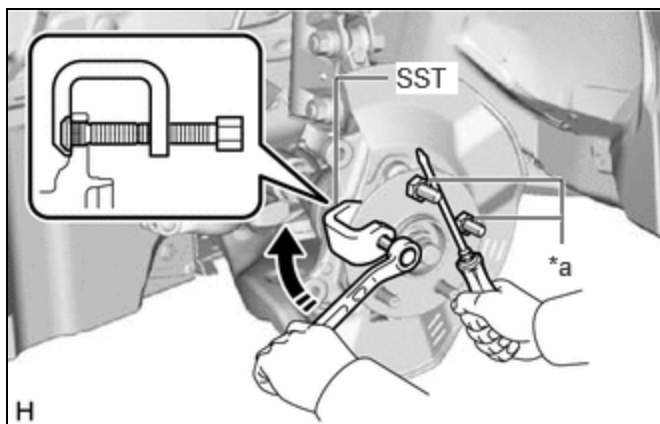
Recommended Service Nut:

Thread diameter: 12.0 mm (0.472 in.)

Thread pitch: 1.5 mm (0.0591 in.)

NOTICE:

Install the service nuts to prevent damage to the front axle hub bolts.



*a	Service Nut
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- (b) Using SST and a screwdriver or an equivalent tool to hold the front axle hub sub-assembly, remove the front axle hub bolt.

SST: 09611-12010

NOTICE:

Do not damage the threads of the front axle hub bolts.

7. INSTALL FRONT AXLE HUB BOLT

- (a) Temporarily install a new front axle hub bolt to the front axle hub sub-assembly.

- (b) Install a washer and service nut to the front axle hub bolt as shown in the illustration.

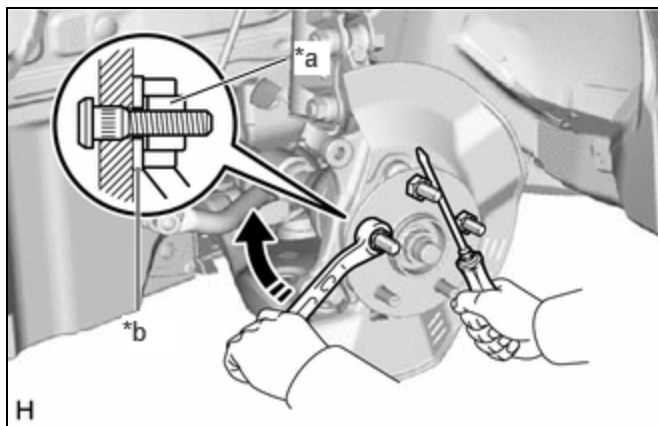
Recommended Service Nut:

Thread diameter: 12.0 mm (0.472 in.)

Thread pitch: 1.5 mm (0.0591 in.)

HINT:

Recommended washer thickness is 5 mm (0.197 in.) or more.



*a	Service Nut
*b	Washer

(c) Using a screwdriver or an equivalent tool to hold the front axle hub sub-assembly, install the front axle hub bolt by tightening the service nut.

NOTICE:

- Install the service nuts to prevent damage to the front axle hub bolts.
- Do not damage the threads of the front axle hub bolts.

(d) Remove the 3 service nuts and washer from the 3 front axle hub bolts.

8. INSTALL FRONT DISC

Click here [INFO](#)

9. INSTALL FRONT DISC BRAKE CALIPER ASSEMBLY

(a) Install the front disc brake caliper assembly to the steering knuckle with the 2 bolts.

Torque:

107 N·m {1091 kgf·cm, 79 ft·lbf}

NOTICE:

- Do not twist the front flexible hose when installing the front disc brake caliper assembly.
- Make sure that there is no foreign matter on the threads of the bolt.

10. INSTALL FRONT WHEEL

Click here [INFO](#)

11. CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL

(a) Connect the cable to the negative (-) auxiliary battery terminal.

HINT:

for M20A-FXS: Click here [INFO](#)

for 2ZR-FXE: Click here [INFO](#)

(b) Turn the ignition switch to ON (READY).

(c) Depress the brake pedal and release it.

(d) Clear the DTCs.

Chassis > Brake/EPB > Clear DTCs

Chassis > Brake Booster > Clear DTCs

12. INITIALIZATION AFTER RECONNECTING AUXILIARY BATTERY TERMINAL

HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

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