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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: AXLE AND DIFFERENTIAL: REAR 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 rear axle hub bolt removal/installation 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) INFO
	Rear television camera assembly optical axis (Back camera position setting)	Parking Assist Monitor System	INFO
	Parking assist ECU initialization	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.

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>		

CAUTION / NOTICE / HINT

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 and LH sides.
- The following procedure is for the LH side.

PROCEDURE

1. PRECAUTION

NOTICE:

After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

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2. DISABLE BRAKE CONTROL

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3. REMOVE REAR WHEEL

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4. DISCONNECT NO. 2 PARKING BRAKE WIRE ASSEMBLY

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5. SEPARATE REAR DISC BRAKE CALIPER ASSEMBLY

- (a) Remove the 2 bolts and separate the rear disc brake caliper assembly from the rear axle carrier sub-assembly.

NOTICE:

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

6. REMOVE REAR DISC

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7. REMOVE REAR AXLE HUB BOLT

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

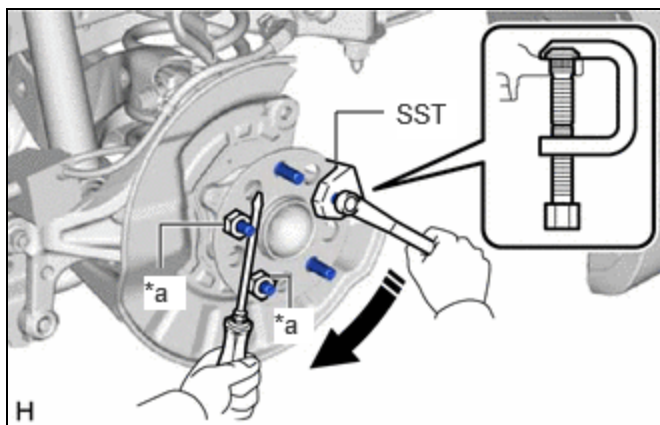
Recommended service nut:

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 rear axle hub bolts.



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

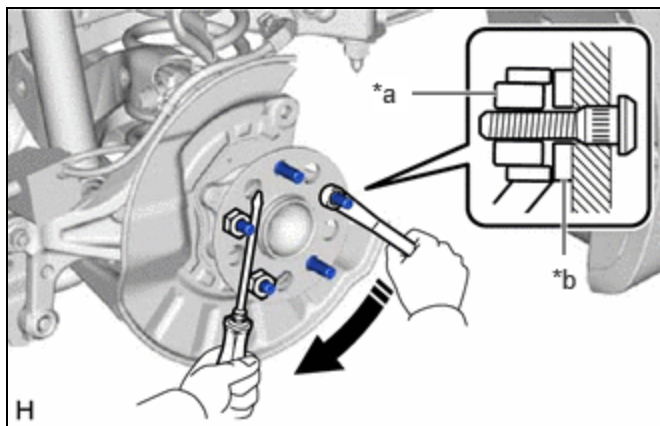
SST: 09611-12010

NOTICE:

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

8. INSTALL REAR AXLE HUB BOLT

- (a) Temporarily install a new rear axle hub bolt to the rear axle hub and bearing assembly.



*a	Service Nut
*b	Washer

(b) Install a washer and service nut to the rear 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.

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

NOTICE:

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

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

9. INSTALL REAR DISC

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10. INSTALL REAR DISC BRAKE CALIPER ASSEMBLY

(a) Install the rear disc brake caliper assembly to the rear axle carrier sub-assembly with the 2 bolts.

Torque:

107 N·m {1091 kgf·cm, 79 ft·lbf}

11. CONNECT NO. 2 PARKING BRAKE WIRE ASSEMBLY

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12. INSTALL REAR WHEEL

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13. CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL

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14. 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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