

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002BZfV
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: AXLE AND DIFFERENTIAL: REAR AXLE HUB (for AWD): ON-VEHICLE INSPECTION; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

ON-VEHICLE INSPECTION

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 and bearing assembly on-vehicle inspection 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)*3	Parking Assist Monitor System	INFO
	Parking assist ECU initialization*3	Panoramic View Monitor System	INFO
		Advanced Park	INFO
<p>*1: Also necessary after performing a tire rotation.</p> <p>*2: It is not necessary to perform this procedure if the tire pressure warning valve and transmitters are installed to the same location.</p> <p>*3: The vehicle height changes because of suspension or tire replacement.</p>			

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.

CAUTION / NOTICE / HINT

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.

Click here [INFO](#)

2. DISABLE BRAKE CONTROL

HINT:

Click here [INFO](#)

3. REMOVE REAR WHEEL

HINT:

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

4. DISCONNECT NO. 2 PARKING BRAKE WIRE ASSEMBLY

HINT:

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

5. SEPARATE REAR DISC BRAKE CALIPER ASSEMBLY

HINT:

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

6. REMOVE REAR DISC

HINT:

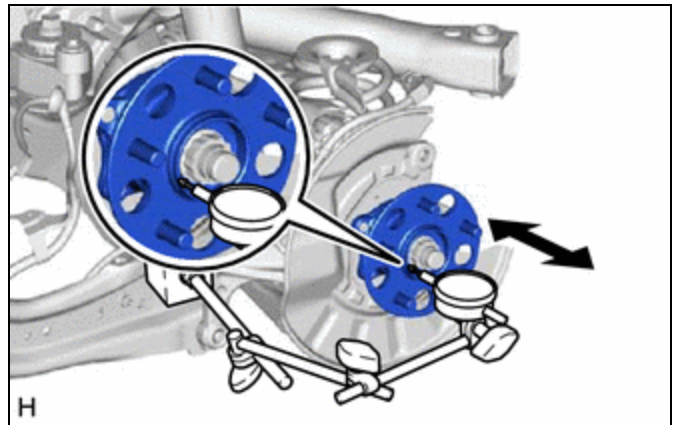
[Click here](#) **INFO**

7. INSPECT REAR AXLE HUB BEARING LOOSENESS

(a) Using a dial indicator with magnetic base, check for looseness near the center of the rear axle hub and bearing assembly.

NOTICE:

- Ensure that the dial indicator is set perpendicular to the measurement surface.
- Keep the magnet of the dial indicator away from the rear skid control sensor.



Rear Axle Hub Bearing Looseness

SPECIFIED CONDITION	RESULT
0.05 mm or less	mm
0.00197 in. or less	in.

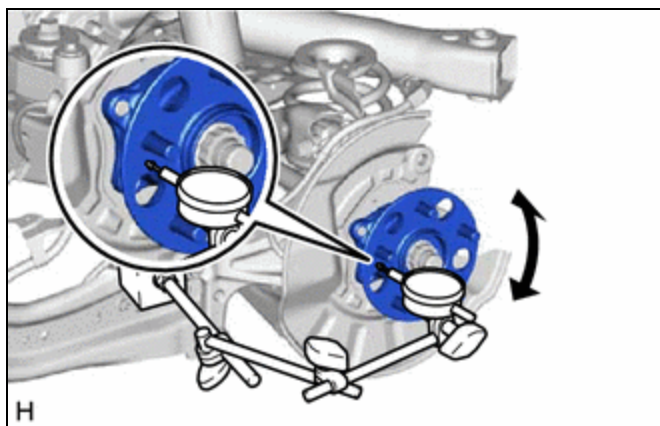
(b) If the looseness exceeds the maximum, replace the rear axle hub and bearing assembly.

8. INSPECT REAR AXLE HUB RUNOUT

- (a) Using a dial indicator with magnetic base, check for runout on the surface of the rear axle hub and bearing assembly.

NOTICE:

- Ensure that the dial indicator is set perpendicular to the measurement surface.
- Make sure to install the tip of the dial indicator towards the outside of the rear axle hub bolts.
- Keep the magnet of the dial indicator away from the rear skid control sensor.



Rear Axle Hub Runout

SPECIFIED CONDITION	RESULT
0.05 mm or less	mm
0.00197 in. or less	in.

- (b) If the runout exceeds the maximum, replace the rear axle hub and bearing assembly.

9. INSTALL REAR DISC

HINT:

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

10. INSTALL REAR DISC BRAKE CALIPER ASSEMBLY

HINT:

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

11. CONNECT NO. 2 PARKING BRAKE WIRE ASSEMBLY

HINT:

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

12. INSTALL REAR WHEEL

HINT:

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

13. CONNECT CABLE TO NEGATIVE AUXILIARY BATTERY TERMINAL

HINT:

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

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.

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

