

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000002A06W
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> PA10/PB10/PB12 (HYBRID TRANSMISSION / TRANSAXLE): PA10 HYBRID VEHICLE TRANSAXLE: ON-VEHICLE INSPECTION; 2023 - 2024 MY Prius [12/2022 - ]		

## 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 hybrid vehicle transaxle assembly 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
Replacement of shift actuator ECU (Shift control actuator assembly)*	Perform actuator position learning	<ul style="list-style-type: none"> <li>Shift position not correctly changing</li> <li>Shift position indicator not illuminating or displaying the incorrect drive state</li> </ul>	<a href="#">INFO</a>

\*: Even when not replacing the part, it is necessary to perform the specified necessary procedures after installation.

#### **NOTICE:**

- When disconnecting a wire harness of any component connected to the supply power of the integrated capacitor (integration control supply) or when removing the integrated capacitor (integration control supply), make sure to wait 5 minutes or more after turning the ignition switch off for self-diagnosis to complete and the voltage of the integrated capacitor (integration control supply) to discharge.
- If the shift control actuator assembly is replaced or removed, make sure to perform actuator position learning.

If not performed after replacing the shift control actuator assembly, a malfunction such as the shift position not correctly changing, the shift position indicator not illuminating or displaying the incorrect drive state, etc. may occur.

- When the shift control actuator assembly is replaced or removed, although the displayed value of Data List item "ACT Position Learning Complete Status" may be "Complete" based on information from before removal, make sure to perform actuator position learning.
- When any of the above procedures are completed, change the shift position to all positions and check the following items:
  - The shift position indicator illuminates in accordance with the current position.
  - The vehicle does not move when in shift state P (parking brake released)
  - The vehicle does not drive when in shift state N
  - The vehicle drives when in shift state D or R

## PROCEDURE

### **1. SECURE VEHICLE**

- (a) Fully apply the parking brake and chock a wheel.

#### **CAUTION:**

- Make sure to apply the parking brake and chock a wheel before performing this procedure.
- If the vehicle is not secure and the shift lever is moved to N, the vehicle may suddenly move, possibly resulting in an accident or serious injury.



**2. REMOVE SHIFT CONTROL ACTUATOR ASSEMBLY**

**HINT:**

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

**3. INSPECT HYBRID VEHICLE TRANSAXLE ASSEMBLY**

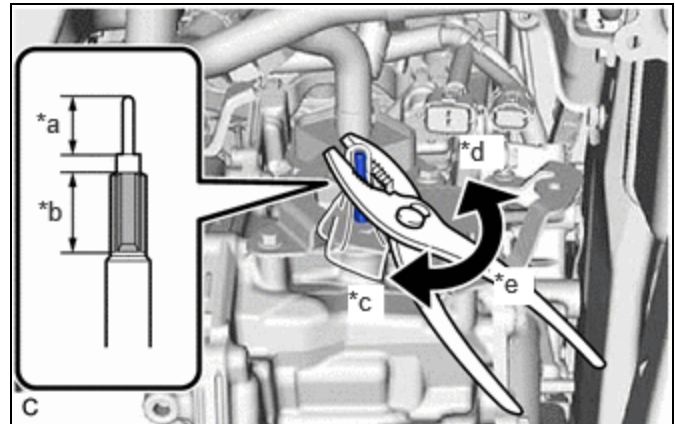
(a) Using a pair of pliers, grip the spline portion (\*b) of the parking lock shaft that has been wrapped with a cloth or other material and rotate it in the direction shown by the arrow in the illustration.

Standard:

The parking lock smoothly engages and disengages.

**NOTICE:**

- Do not grip the 2-flats portion (\*a) of the parking lock shaft.
- Make sure to use a cloth or other material to prevent damage to the spline portion (\*b) of the parking lock shaft.
- After performing the inspection, set the parking lock shaft to the parking lock position.



*a	2-flats Portion of Parking Lock Shaft
*b	Spline Portion of Parking Lock Shaft
*c	Parking Lock
*d	Unlock
*e	Rotate Approximately 20°

**4. INSTALL SHIFT CONTROL ACTUATOR ASSEMBLY**

**HINT:**

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

