

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM10000002A05N
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> PA10/PB10/PB12 (HYBRID TRANSMISSION / TRANSAXLE): ELECTRONIC SHIFT LEVER SYSTEM: PRECAUTION; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

## PRECAUTION

### PRECAUTIONS FOR DISCONNECTING AND RECONNECTING CABLE TO NEGATIVE (-) AUXILIARY BATTERY TERMINAL

#### NOTICE:

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

Click here [INFO](#)

- When disconnecting and reconnecting the auxiliary battery

#### 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](#)

### PRECAUTION FOR INSPECTING ELECTRONIC SHIFT LEVER SYSTEM

- As the shift control ECU and shift actuator ECU do not immediately shutdown after the ignition switch is turned off, if the ignition switch is cycled within a short time, the ECUs may not shutdown. After turning the ignition switch off, wait approximately 1 minute or more for the shift control ECU and shift actuator ECU to completely shut down before connecting the GTS, opening/closing a door or operating a pedal.
- If the shift state cannot be changed from P, the auxiliary battery voltage may be low.
- If the electronic shift lever system has been damaged due to a flood, etc., the shift state will not be able to be changed to or from P. When the shift state cannot be changed from P to any other state, the parking lock is engaged. Therefore, make sure to release the parking lock manually before towing the vehicle.

for PA10 [INFO](#)

for PB10, PB12 [INFO](#)

- If the electronic shift lever system is damaged, the ignition switch may not be able to be turned off with the ignition switch off operation. In this case, the ignition switch may be changed to off by operating the parking brake.
- Do not turn the ignition switch off when towing the vehicle. Turning the ignition switch off may result in engagement of the parking lock which locks the drive wheels, resulting in a hazardous situation or accident.
- Check that the shift state is P and the parking brake is engaged before disconnecting the cable from the negative (-) auxiliary battery terminal.
- When removing or installing the shift control ECU or shift actuator ECU, make sure there is no power supplied\*1 when disconnecting or connecting the connectors.

\*1: Auxiliary battery, Bub-battery, Integrated capacitor, etc.

### PRECAUTION WHEN REMOVING OR REPLACING SHIFT ACTUATOR ECU (SHIFT CONTROL ACTUATOR ASSEMBLY)

- After any of the following procedures, it is necessary to perform initialization and learning for the shift actuator ECU.

Click here [INFO](#)

- When removing and installing the shift actuator ECU (shift control actuator assembly).
- When replacing the shift actuator ECU (shift control actuator assembly).

**NOTICE:**

When initialization and learning has not been performed after replacing the shift actuator ECU, 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.

(b) 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 is not engaged)
- The vehicle does not drive when in shift state N
- The vehicle drives when in shift state D or R

**HINT:**

After replacing the shift control ECU (transmission floor shift assembly), the function that automatically changes the shift state to P may not operate until the shift state has been changed to a drive state with the ignition switch ON (READY).

**PRECAUTION WHEN REPLACING SHIFT CONTROL ECU (TRANSMISSION FLOOR SHIFT ASSEMBLY)**

(a) After replacing the shift control ECU (transmission floor shift assembly), it is necessary to update the ECU security key.

Click here 

(b) 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 is not engaged)
- The vehicle does not drive when in shift state N
- The vehicle drives when in shift state D or R

**PRECAUTIONS WHEN REMOVING INTEGRATED CAPACITOR (INTEGRATION CONTROL SUPPLY)**

(a) 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.

