Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM100000002A05R
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]

Title: PA10/PB10/PB12 (HYBRID TRANSMISSION / TRANSAXLE): ELECTRONIC SHIFT LEVER SYSTEM: UTILITY; 2023 - 2024 MY Prius Prius Prime [12/2022 -   ]

UTILITY

ALL READINESS

HINT:
- With "All Readiness", you can use the GTS to check whether the DTC judgment has been completed.
- Perform the "All Readiness" check after simulating malfunction symptoms or when performing validation after finishing repairs.

(a) Clear the DTCs even if no DTCs are stored.

Powertrain > Hybrid Control > Clear DTCs

(b) Turn the ignition switch off and wait for 1 minute or more without opening/closing a door or operating a pedal.

(c) Turn the ignition switch to ON.

(d) Perform the DTC confirmation driving pattern to run the DTC judgment.

Powertrain > Hybrid Control > Utility

TESTER DISPLAY
All Readiness

(e) Input the DTCs to be confirmed.

(f) Check the DTC judgment result.

GTS DISPLAY	DESCRIPTION
NORMAL	- DTC judgment completed - System normal
ABNORMAL	- DTC judgment completed - System abnormal
INCOMPLETE	- DTC judgment not completed - Perform the driving pattern after confirming DTC enabling conditions

If the judgment result shows INCOMPLETE, perform the DTC confirmation driving pattern again.

(g) Turn the ignition switch off.

CHECK FOR DIAGNOSIS RELATED INFORMATION

(a) Check the diagnosis related information and freeze frame data, and then write them down.

Powertrain > Hybrid Control > Utility

TESTER DISPLAY
Diagnosis Related Information
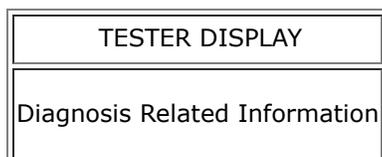
HINT:

Clearing the DTCs will also clear the diagnosis related information.

CLEAR DIAGNOSIS RELATED INFORMATION

(a) Clear the diagnosis related information and freeze frame data.

Powertrain > Hybrid Control > Clear DTCs

ACT POSITION LEARNING

NOTICE:

- If the shift actuator ECU (shift control actuator assembly) is replaced or removed, make sure to perform actuator position learning.

    If not performed after replacing the 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.
- When the shift actuator ECU (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.

(a) Turn the ignition switch to ON.

(b) Using the GTS, enter the following menus.

Powertrain > Hybrid Control > Utility

TESTER DISPLAY
ACT Position Learning

(c) According to the display on the GTS, perform ACT Position Learning.

(d) Using the GTS, enter the following menus.

Powertrain > Hybrid Control > Data List

TESTER DISPLAY
ACT Position Learning Complete Status

(e) Check that "Complete" is displayed.

HINT:

If a value other than "Complete" is displayed, check the part number and installation of the actuator and perform learning again.

(f) 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