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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: THEFT DETERRENT / KEYLESS ENTRY: SMART KEY SYSTEM (for Start Function): New Key Registration Warning Message is not Displayed; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

New Key Registration Warning Message is not Displayed

DESCRIPTION

If the new key registration warning message is not displayed after an electrical key transmitter sub-assembly has been registered, there may be communication problem between the certification ECU (smart key ECU assembly) and combination meter assembly (meter ECU).

CAUTION / NOTICE / HINT

NOTICE:

- When using the GTS with the ignition switch off, perform lock and unlock operations using the door control switch of the multiplex network master switch assembly at intervals of 1.5 seconds or less until communication between the GTS and the vehicle begins, and then select the vehicle model manually.

Then select Model Code "KEY REGIST" under manual mode and enter the following menus: Body Electrical / Smart Key(CAN). While using the GTS, periodically perform lock and unlock operations using the door control switch of the multiplex network master switch assembly at intervals of 1.5 seconds or less to maintain communication between the GTS and the vehicle.

- The smart key system (for Start Function) uses the LIN communication system and CAN communication system. Inspect the communication function by following How to Proceed with Troubleshooting. Troubleshoot the smart key system (for Start Function) after confirming that the communication systems are functioning properly.

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- Before replacing the certification ECU (smart key ECU assembly), refer to Registration.

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- After repair, confirm that no DTCs are output.
- Check that there are no electrical key transmitter sub-assemblies in the vehicle.
- When replacing the combination meter assembly, always replace it with a new one. If a combination meter assembly which was installed to another vehicle is used, the information stored in it will not match the information from the vehicle and a DTC may be stored.

PROCEDURE

1.	CHECK FOR DTC
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(a) Check for DTCs.

Body Electrical > Smart Key > Trouble Codes

RESULT	PROCEED TO
DTCs are not output	A
DTCs are output	B

B  **GO TO DIAGNOSTIC TROUBLE CODE CHART** 

A


2.	READ VALUE USING GTS (FL DOOR COURTESY SWITCH STATUS)
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(a) Read the Data List according to the display on the GTS.

Body Electrical > Main Body > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
FL Door Courtesy Switch Status	Front door LH courtesy light switch signal	Close or Open	Close: Front door LH closed Open: Front door LH open	-

Body Electrical > Main Body > Data List

TESTER DISPLAY
FL Door Courtesy Switch Status

RESULT	PROCEED TO
On the GTS screen, ON or OFF is displayed accordingly.	A
On the GTS screen, ON or OFF is not displayed accordingly.	B

B  **GO TO LIGHTING SYSTEM (Door Courtesy Switch Circuit)** 

A


3.	CHECK METER / GAUGE SYSTEM
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(a) With the electrical key transmitter sub-assembly in the vehicle and all of the doors closed, lock the doors using the entry lock function and check that the warning message is displayed on the multi-information display.

NOTICE:

In order to prevent the electrical key transmitter sub-assembly from being locked inside the vehicle, perform this inspection with the window of a door open.

HINT:

Key lock-in prevention function (vehicle interior).

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RESULT	PROCEED TO
The warning message is displayed on the multi-information display.	A
The warning message is not displayed on the multi-information display.	B

B  **REPLACE COMBINATION METER ASSEMBLY**

A

4.	ADDITIONAL KEY REGISTRATION
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(a) Clear all of the registered electrical key transmitter sub-assemblies except one and perform registration again.

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NEXT

5.	CHECK MULTI-INFORMATION DISPLAY
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(a) With all of the doors closed, lock the doors using the entry lock function.

(b) Unlock the doors using the entry unlock function, open the driver door and check that the warning message is displayed on the multi-information display.

RESULT	PROCEED TO
The warning message is displayed on the multi-information display.	A
The warning message is not displayed on the multi-information display.	B

A ▶ END (10 DAYS MAY HAVE ELAPSED SINCE AN ELECTRICAL KEY TRANSMITTER SUB-ASSEMBLY WAS REGISTERED)

B ▶ REPLACE CERTIFICATION ECU (SMART KEY ECU ASSEMBLY) [INFO](#)

