

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002909X
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: THEFT DETERRENT / KEYLESS ENTRY: SMART KEY SYSTEM (for Start Function): B279046; ID-BOX Calibration / Parameter Memory Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B279046	ID-BOX Calibration / Parameter Memory Failure
------------	----------------	--

DESCRIPTION

When an internal malfunction occurs in the ID code box (immobiliser code ECU), the certification ECU (smart key ECU assembly) stores this DTC.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY	NOTE
B279046	ID-BOX Calibration / Parameter Memory Failure	An internal malfunction occurs in the ID code box (immobiliser code ECU) (EEPROM access malfunction) (1 trip detection logic*).	<ul style="list-style-type: none"> ID code box (immobiliser code ECU) Certification ECU (smart key ECU assembly) 	Smart Key	A	DTC output confirmation operation: An immobiliser set/unset operation is performed (the ignition switch is turned off or to ON while the electrical key transmitter sub-assembly is being carried).

*: Only output while a malfunction is present.

Vehicle Condition and Fail-safe Operation when Malfunction Detected

VEHICLE CONDITION WHEN MALFUNCTION DETECTED	FAIL-SAFE OPERATION WHEN MALFUNCTION DETECTED
<ul style="list-style-type: none"> Ignition switch ON (READY): Hybrid control system cannot be started next time Hybrid control system stopped: Hybrid control system cannot be started 	-

Related Data List and Active Test

DTC NO.	DATA LIST AND ACTIVE TEST
B279046	-

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.

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

- Before replacing the ID code box (immobiliser code ECU), refer to Registration.

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

- After performing repairs, confirm that no DTCs are output by performing "DTC Output Confirmation Operation."

PROCEDURE

1. REPLACE ID CODE BOX (IMMOBILISER CODE ECU)

- (a) Replace the ID code box (immobiliser code ECU) with a new one.

HINT:

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

NEXT



2. CLEAR DTC

- (a) Using the GTS, clear the DTCs.

Body Electrical > Smart Key > Clear DTCs

NEXT



3. REGISTER RECOGNITION CODE

- (a) Register the recognition codes to the ECUs.

HINT:

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

NEXT



4.	REGISTER ECU COMMUNICATION ID
-----------	--------------------------------------

(a) Register the ECU communication ID codes.

HINT:

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

NEXT



5.	CHECK DTC
-----------	------------------

(a) Using the GTS, check if DTC is output.

Body Electrical > Smart Key > Trouble Codes

RESULT	PROCEED TO
B279046 is output	A
B279046 is not output	B

A ▶ **REPLACE CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)** **INFO**

B ▶ **END (ID CODE BOX (IMMOBILISER CODE ECU) WAS DEFECTIVE)**

