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Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]

Title: THEFT DETERRENT / KEYLESS ENTRY: DIGITAL KEY SYSTEM: CHECK FOR INTERMITTENT PROBLEMS; 2023 - 2024 MY Prius Prius Prime [12/2022 -   ]

CHECK FOR INTERMITTENT PROBLEMS

NOTICE:

- Vehicle control history (RoB) is stored in the RAM or EEPROM of the certification ECU (smart key ECU assembly). As the cause of a malfunction stored in the RAM will be cleared when the cable is disconnected from the negative (-) auxiliary battery terminal, do not disconnect the cable from the negative (-) auxiliary battery terminal before checking and recording are complete.
- If the vehicle or vehicle controls are operated (for example, during initial inspection when the vehicle is brought in for repair) before vehicle control history (RoB) has been read and saved, the vehicle control history (RoB) information could be lost.
- The vehicle control history (RoB) function uses the current system time of the GTS and the time counter inside the controlling ECU to calculate the time shown in the vehicle control history (RoB). For this reason, before reading the vehicle control history (RoB), first make sure that the GTS system clock is accurately set to the current time.

VEHICLE CONTROL HISTORY (ROB)

HINT:

The certification ECU (smart key ECU assembly) stores the vehicle control history (RoB) of the smart key system and it can be read using the GTS.

(a) Read the Vehicle Control History (RoB) according to the display on the GTS.

Body Electrical > Smart Key > Utility

TESTER DISPLAY
Vehicle Control History (RoB)

CODE	ITEM LIST	ITEM DESCRIPTION	NOTE
X0A18	Auto Entry Wireless Operation History (Lock/Unlock)	Lock/unlock was performed by wireless operation.	-
X0A19	Auto Entry Wireless Operation History (Open/Close)	Power slide door/back door was opened/closed by wireless operation.	-
X0A1A	Warning Operation History	Warning operation was performed by a function of the certification ECU.	-
X0A1B	Registration Function (Reason for Non-operation)	The reason that key registration failed.	-
X0A1F	Digital Key Control Change	Memory of digital key mode changing.	-
X0A26*	Digital Key (Inactive)	Memory of reason digital key function did not operate.	-

HINT:

Some items may not be displayed depending on the specifications of the vehicle.

*: When "Digital Key (Inactive)" is stored, perform cause analysis in accordance with the following table.

MAIN CATEGORY	SUB CATEGORY	MEMORIZED CONDITIONS	SUSPECTED CAUSE
Digital Key (Inactive)	• Operating Power Switch/Digital Key Boundary Area • Operating Entry Function/Digital Key Boundary Area	Digital key verification performed outside operating range	Digital key could not be detected within operating range Perform function inspection: INFO
	• Operating Power Switch/Digital Key No Motion • Operating Entry Function/Digital Key No Motion	Verification was performed even though no digital key movement was detected	The vibration sensor of the digital key may be disabled or malfunctioning Perform troubleshooting for the digital key
	• Operating Power Switch/Digital Key Response NG • Operating Entry Function/Digital Key Response NG	Digital key verification has failed	A normal signal cannot be received from the digital key due to noise, etc. Refer to Precautions for Inspection or Registration and perform an inspection to check if the radio wave environment is the cause of problem: INFO
	• Operating Power Switch/Digital Key Invalid key • Operating Entry Function/Digital Key Invalid key	Verification was performed when the digital key was invalid	Digital key locked as it was detected that it was left inside the vehicle Check the message display of the digital key
	• Operating Power Switch/Digital Key Out of Area • Operating Entry Function/Digital Key Out of Area	Digital key verification performed outside operating range	Due to some influence, digital key could not be detected Perform function inspection: INFO
	• Operating Power Switch/Digital Key Error • Operating Entry Function/Digital Key Error	BLE digital key receiver communication malfunction occurred	Communication with the BLE digital key receiver was not possible Check for DTCs: INFO Perform function inspection: INFO

SYMPTOM SIMULATION

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