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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): 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

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| TESTER DISPLAY |
| Vehicle Control History (RoB) |

| CODE | ITEM LIST | ITEM DESCRIPTION | NOTE |
|-------|--|---|------|
| X0A10 | Auto Entry Mode Switch History | The certification ECU mode changed when the GTS was connected. | - |
| X0A11 | Customize (Auto Entry Cancel) | The smart functionality was canceled via customization. | - |
| X0A12 | Engine Start (Inactive) | Hybrid control system could not be started because steering lock status was unlock not confirmed. | - |
| X0A13 | Engine Start | Hybrid control system could not be started because immobiliser was set. | - |
| X0A14 | Radio Wave Interference (RF Reception Not Available) | An attempt was made to start the hybrid control system without a key. | - |
| X0A15 | Engine Start Inactive (Steering Lock System) | Hybrid control system could not be started because steering lock lever was engaged. | - |
| 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. | - |

| CODE | ITEM LIST | ITEM DESCRIPTION | NOTE |
|-------|--|---|------|
| 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. | - |
| X0A1C | Radio Wave Interference (RF Signal Received) | Smart system did not operate due to effects of radio frequency interference. | - |
| X0A1D | Auto Entry Lock (Inactive) | The reason that entry lock did not operate. | - |
| X0A1E | Auto Entry Unlock (Inactive) | The reason that operations other than entry lock operation did not operate correctly. | - |

HINT:

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

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

Body Electrical > Power Source Control > Utility

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| TESTER DISPLAY |
| Vehicle Control History (RoB) |

| CODE | ITEM LIST | ITEM DESCRIPTION | NOTE |
|-------|---|---|------|
| X0A00 | Cause Details of Engine Start / READY ON Failure | The reason that hybrid control system did not start or system did not enter READY ON. | - |
| X0A01 | Cause Details of Engine Stop / READY OFF in IG ON | The reason that hybrid control system stalled or hybrid control system stopped. | - |
| X0A02 | Cause Details of Leave ACC ON / IG ON | The reason that vehicle power source turned off automatically. | - |

HINT:

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

SYMPTOM SIMULATION

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