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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: THEFT DETERRENT / KEYLESS ENTRY: DIGITAL KEY SYSTEM: Power Source Mode does not Change (No Interior Verification); 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

Power Source Mode does not Change (No Interior Verification)

DESCRIPTION

When the power source mode does not change even after removing the cause of the malfunction which is not related to vehicle settings and vehicle components, in-vehicle verification has not been performed. There may be a malfunction in the communication system between the certification ECU (smart key ECU assembly) and digital key ECU assembly or digital key.

CAUTION / NOTICE / HINT

NOTICE:

- Before performing troubleshooting of the vehicle, refer to Precautions for Inspection or Registration to check for a cause of the malfunction which is not related to vehicle settings or vehicle components.

Click here [INFO](#)

- Perform troubleshooting with the electrical key transmitter sub-assembly not inside the detection area of the smart key system.
- When changing the power source mode, refer to precautions regarding the in-vehicle operating range and make sure the digital key is within the in-vehicle operating range

Click here [INFO](#)

- Make sure that no DTCs are output. If any DTCs are output, proceed to Diagnostic Trouble Code Chart.
- If the digital key system has been disabled, enable the system before performing troubleshooting.

Click here [INFO](#)

- Before replacing the certification ECU (smart key ECU assembly), digital key ECU assembly or BLE indoor digital key receiver assembly, refer to Registration.

Click here [INFO](#)

PROCEDURE

1. CHECK SMART KEY SYSTEM (for Start Function)

(a) Check the smart key system (for Start Function).

Click here [INFO](#)

OK:

Smart key system (Start Function) operates normally

NG  **GO TO SMART KEY SYSTEM (for Start Function) (HOW TO PROCEED WITH TROUBLESHOOTING)**

OK

2. CHECK POWER SOURCE MODE CHANGING FUNCTION

(a) Place the digital key on the center console near the vehicle interior BLE digital key receiver.

NOTICE:

- Make sure there is no electronic device that outputs high-voltage or noise inside or around the vehicle.
- Make sure that the digital key is not covered by or touching a metal object.

(b) Check the power source mode changing function.

OK:

Power source mode can be changed

NG  **GO TO STEP 4**

OK

**3. CAUSE ANALYSIS**

(a) Using the GTS, check for Vehicle Control History (RoB).

Body Electrical > Smart Key > Utility

TESTER DISPLAY
Vehicle Control History (RoB)

(b) Perform cause analysis.

Click here 

(c) Take appropriate action in accordance with the result of the cause analysis.

NEXT  **END (PERFORM TROUBLESHOOTING ON ORIGINAL DIGITAL KEY)**

4. CHECK DIGITAL KEY DISPLAY

(a) Check the message display of the digital key.

NOTICE:

If a message is not displayed on the digital key, a BLE connection cannot be established.

RESULT	PROCEED TO
Message indicating out of operating range or digital key system malfunction is displayed	A
Other than above is displayed	B
BLE connection cannot be established	C

B ► **END (PERFORM DIGITAL KEY TROUBLESHOOTING)**

C ► **GO TO OTHER PROBLEM (Cannot Connect to BLE)**

A



5.	CHECK ANOTHER DIGITAL KEY
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(a) Check if there is digital key available that is already registered to the vehicle.

RESULT	PROCEED TO
Another registered digital key is not available	A
Another registered digital key is available	B

B ► **GO TO STEP 8**

A



6.	CHECK USING ANOTHER VEHICLE
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(a) Check if another vehicle equipped with digital key system is available

RESULT	PROCEED TO
Vehicle equipped with digital key system not available	A
Vehicle equipped with digital key system available	B

B  **GO TO STEP 14****A****7. REGISTER NEW SHARE KEY**

(a) Register a share key.

HINT:

Refer to the digital key application.

NEXT**8. CHECK POWER SOURCE MODE CHANGING FUNCTION**

(a) Place another registered digital key on the center console near the vehicle interior BLE digital key receiver.

NOTICE:

- Make sure there is no electronic device that outputs high-voltage or noise inside or around the vehicle.
- Make sure that the digital key is not covered by or touching a metal object.

(b) Check the power source mode changing function.

OK:

Power source mode can be changed

OK  **END (PERFORM TROUBLESHOOTING ON ORIGINAL DIGITAL KEY)****NG****9. CHECK BLE INDOOR DIGITAL KEY RECEIVER ASSEMBLY**

(a) Replace the BLE indoor digital key receiver assembly with a new one or used one.

Click here 

(b) Place the digital key on the center console near the vehicle interior BLE digital key receiver.

NOTICE:

- Make sure there is no electronic device that outputs high-voltage or noise inside or around the vehicle.
- Make sure that the digital key is not covered by or touching a metal object.

(c) Check the power source mode changing function.

OK  **END (BLE INDOOR DIGITAL KEY RECEIVER ASSEMBLY WAS DEFECTIVE)**

NG



10. REPLACE DIGITAL KEY ECU ASSEMBLY

(a) Replace the digital key ECU assembly with a new one.

Click here 

NEXT



11. REGISTER DIGITAL KEY CODE

(a) Register the digital key code to the digital key ECU assembly.

Click here 

NEXT



12. REGISTER NEW OWNER KEY

(a) Register the owner key using the original digital key.

HINT:

Refer to the digital key application.

NEXT



13. CHECK POWER SOURCE MODE CHANGING FUNCTION

- (a) Place another registered digital key on the center console near the vehicle interior BLE digital key receiver.

NOTICE:

- Make sure there is no electronic device that outputs high-voltage or noise inside or around the vehicle.
- Make sure that the digital key is not covered by or touching a metal object.

- (b) Check the power source mode changing function.

OK:

Power source mode can be changed

OK ► END (DIGITAL KEY ECU ASSEMBLY WAS DEFECTIVE)

NG ► REPLACE CERTIFICATION ECU (SMART KEY ECU ASSEMBLY) 

14. REGISTER NEW SHARE KEY

- (a) Register the share key with which the power source mode could not be changed to another vehicle equipped with a digital key system.

HINT:

Refer to the digital key application.

NEXT**15. CHECK POWER SOURCE MODE CHANGING FUNCTION**

- (a) Place the digital key on the center console near the vehicle interior BLE digital key receiver of another vehicle equipped with the digital key system.

NOTICE:

- Make sure there is no electronic device that outputs high-voltage or noise inside or around the vehicle.
- Make sure that the digital key is not covered by or touching a metal object.

- (b) Check the power source mode changing function.

OK:

Power source mode can be changed

OK ► GO TO STEP 9

NG ► END (PERFORM TROUBLESHOOTING ON ORIGINAL DIGITAL KEY)

