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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 -     ]
<b>Title:</b> THEFT DETERRENT / KEYLESS ENTRY: DIGITAL KEY SYSTEM: New Key cannot be Registered (Owner Key); 2023 - 2024 MY Prius Prius Prime [12/2022 -     ]		

**New Key cannot be Registered (Owner Key)**

## DESCRIPTION

- When performing new registration of a digital key using the digital key application, the mobile device first communicates with the service center. Then, the vehicle communicates with the service center via the telematics system, then the digital key pairs with the vehicle via BLE.

If a registration malfunction occurs before the digital key has paired with the vehicle, it should be suspected that the cause is by misoperation of components outside of the vehicle, a telematics system malfunction, or a digital key ECU assembly malfunction.

If a registration malfunction occurs after the digital key has paired with the vehicle, it should be suspected that the cause is the communication system between the digital key ECU assembly and certification ECU (smart key ECU assembly), certification ECU (smart key ECU assembly) or digital key ECU assembly.

- If a new share key cannot be registered, refer to Additional Key cannot be Registered (Share Key).

Click here [INFO](#)

## 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](#)

- 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) or digital key ECU assembly, refer to Registration.

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## PROCEDURE

### 1. READ VALUE USING GTS (OWNER'S DIGITAL KEY REGISTRATION STATUS)

(a) Read the Data List according to the display on the GTS.

**Body Electrical > Smart Key > Data List**

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Owner's Digital Key Registration Status	Registration status of owner key	Not Registered or Registered	Not Registered: Not registered Registered: Registered	-

**Body Electrical > Smart Key > Data List**

TESTER DISPLAY
Owner's Digital Key Registration Status

RESULT	PROCEED TO
Owner key is registered	A
Owner key is not registered	B

**B**  **GO TO STEP 3**

**A**  


<b>2.</b>	<b>CLEAR ALL REGISTERED DIGITAL KEYS</b>
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(a) Clear all registered digital keys.

Click here 

OK:  
All digital keys can be cleared

**NEXT**  **END (PERFORM OWNER KEY REGISTRATION)**

<b>3.</b>	<b>REGISTER NEW OWNER KEY</b>
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(a) Using the digital key application, perform new registration of the owner key from inside the vehicle.

**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.

**HINT:**

Refer to the digital key application.

OK:

Registration can be performed normally

**OK** ► **USE SIMULATION METHOD TO CHECK**

**NG**



<b>4.</b>	<b>READ VALUE USING GTS (VEHICLE CONTROL HISTORY (ROB))</b>
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(a) Perform cause analysis in the following tables.

**Body Electrical > Smart Key > Utility**

TESTER DISPLAY
Vehicle Control History (RoB)

MAIN CATEGORY	SUB CATEGORY	MEMORIZED CONDITIONS	PROCEED TO
Digital Key (Inactive)	Digital key Code Confirmation Failed (No Response from Digital key ECU)	Registration could not be performed as the certification ECU (smart key ECU assembly) did not receive a response from the digital key ECU assembly	A
	Owner Digital Key Registration Failure	The owner key could not be registered	B
	ECU Code Confirmation Failed (D Code Certification Failed)	Registration could not be performed as the D code* of the certification ECU (smart key ECU assembly) and digital key ECU assembly did not match.	C
The above vehicle control history (RoB) is not stored			D

\*: Verification code between the certification ECU (smart key ECU assembly) and digital key ECU assembly

**B** ► **REPLACE DIGITAL KEY ECU ASSEMBLY** INFO

**C** ► **GO TO STEP 6**

**D** ► **GO TO STEP 9**

**A**



**5. CHECK SMART KEY SYSTEM (for Start Function)**

(a) Check the smart key system (for start function).

Click here [INFO](#)

(b) Check that electrical key transmitter sub-assembly registration can be performed normally.

Click here [INFO](#)

OK:

Smart key system (for start function) is normally and electrical key transmitter sub-assembly can be registered

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

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

**6. REPLACE DIGITAL KEY ECU ASSEMBLY**

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

Click here [INFO](#)

**NEXT**

**7. REGISTER DIGITAL KEY CODE**

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

Click here [INFO](#)

OK:

Registration can be performed normally

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

**OK**

**8. REGISTER NEW OWNER KEY**

(a) Using the digital key application, perform new registration of the owner key from inside the vehicle.

**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.

**HINT:**

Refer to the digital key application.

OK:

Registration can be performed normally

**OK** ▶ END (DIGITAL KEY ECU ASSEMBLY WAS DEFECTIVE)

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

**9. REGISTER NEW OWNER KEY**

(a) Using the digital key application of another mobile device, perform new registration of the owner key from inside the vehicle.

**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.

**HINT:**

Refer to the digital key application.

OK:

Registration can be performed normally

**OK** ▶ END (PERFORM TROUBLESHOOTING ON ORIGINAL DIGITAL KEY)

**NG**

**10. INSPECT CAUSE OF MALFUNCTION**

(a) Refer to Precautions for Inspection or Registration, and check for any causes of malfunctions other than vehicle settings or vehicle components.

Click here [INFO](#)

**NEXT**



**11. REGISTER NEW OWNER KEY**

(a) Using the digital key application, perform new registration of the owner key from inside the vehicle.

**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.

**HINT:**

Refer to the digital key application.

OK:

Registration can be performed normally

**OK** ► **END (CAUSE OF MALFUNCTION NOT RELATED TO VEHICLE SETTINGS OR VEHICLE COMPONENTS)**

**NG** ► **REPLACE DIGITAL KEY ECU ASSEMBLY** INFO

