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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: SMART KEY SYSTEM (for Start Function): B278196,B278211,B278215,B279F1C; Steering Lock System Component Internal Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>B278196</b>	<b>Steering Lock System Component Internal Failure</b>
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<b>DTC</b>	<b>B278211</b>	<b>Power Source Control System Circuit Short to Ground</b>
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<b>DTC</b>	<b>B278215</b>	<b>Power Source Control System Circuit Short to Battery or Open</b>
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<b>DTC</b>	<b>B279F1C</b>	<b>Steering Lock Confirmation Signal Circuit Voltage Out of Range</b>
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## DESCRIPTION

As this DTC is not normally output, it may be due to noise in the LIN communication system, etc.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY	NOTE
B278196	Steering Lock System Component Internal Failure	Noise in the LIN communication system, etc.	ID code box (immobiliser code ECU)	Smart Key	A	<b>DTC Output Confirmation Operation:</b>  No confirmation operation is necessary (monitoring is continuous).
B278211	Power Source Control System Circuit Short to Ground	Noise in the LIN communication system, etc.	ID code box (immobiliser code ECU)	Smart Key	A	<b>DTC Output Confirmation Operation:</b>  No confirmation operation is necessary (monitoring is continuous).

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY	NOTE
B278215	Power Source Control System Circuit Short to Battery or Open	Noise in the LIN communication system, etc.	ID code box (immobiliser code ECU)	Smart Key	A	<b>DTC Output Confirmation Operation:</b>  No confirmation operation is necessary (monitoring is continuous).
B279F1C	Steering Lock Confirmation Signal Circuit Voltage Out of Range	Noise in the LIN communication system, etc.	ID code box (immobiliser code ECU)	Smart Key	A	<b>DTC Output Confirmation Operation:</b>  No confirmation operation is necessary (monitoring is continuous).

#### Vehicle Condition and Fail-safe Function when Malfunction Detected

DTC CODE	VEHICLE CONDITION WHEN MALFUNCTION DETECTED	FAIL-SAFE FUNCTION WHEN MALFUNCTION DETECTED
B278196	The hybrid control system cannot be started.	-
B278211		
B278215		
B279F1C		

#### Related Data List and Active Test Items

DTC NO.	DATA LIST AND ACTIVE TEST
B278196 B278211 B278215 B279F1C	-

## 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 again.

#### HINT:

When all the ECUs that are connected via LIN communication cannot communicate with the certification ECU (smart key ECU assembly), DTC B278588 is stored.

## PROCEDURE

<b>1.</b>	<b>CLEAR DTC</b>
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(a) Clear the DTCs.

**Body Electrical > Smart Key > Clear DTCs**

### NEXT



<b>2.</b>	<b>CHECK FOR DTC</b>
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(a) Check for DTCs.

**Body Electrical > Smart Key > Trouble Codes**

RESULT	PROCEED TO
B278196, B278211, B278215 or B279F1C is output	A
B278196, B278211, B278215 and B279F1C are not output	B

**A** **REPLACE ID CODE BOX (IMMOBILISER CODE ECU)** INFO

**B** **END**

