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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HYBRID / BATTERY CONTROL: HYBRID CONTROL SYSTEM (for PHEV Model): P310764; Lost Communication with Airbag System Control Module Signal Plausibility Failure; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	P310764	Lost Communication with Airbag System Control Module Signal Plausibility Failure
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DESCRIPTION

Refer to the description for DTC P310711.

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DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P310764	Lost Communication with Airbag System Control Module Signal Plausibility Failure	Abnormal communication signal: Communication from the airbag ECU assembly stopped and signal plausibility failure has been detected for a certain period. (1 trip detection logic)	<ul style="list-style-type: none"> Wire harness or connector Airbag ECU assembly Hybrid vehicle control ECU 	Does not come on	Master Warning: Comes on	Hybrid Control	B	SAE Code: P3107

CONFIRMATION DRIVING PATTERN

HINT:

After repairs have been completed, clear the DTCs and then check that the vehicle has returned to normal by performing the following All Readiness check procedure.

Click here [INFO](#)

1. Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
2. Turn the ignition switch off and wait for 2 minutes or more.
3. With the ignition switch ON, wait for 2 minutes or more.
4. Enter the following menus: Powertrain / Hybrid Control / Utility / All Readiness.
5. Check the DTC judgment result.

HINT:

- o If the judgment result shows NORMAL, the system is normal.
- o If the judgment result shows ABNORMAL, the system has a malfunction.
- o If the judgment result shows INCOMPLETE or N/A, perform driving pattern again.

WIRING DIAGRAM

Refer to the wiring diagram for DTC P310711.

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PROCEDURE

1. CHECK DTC OUTPUT (SRS AIRBAG)

(a) Check for DTCs.

Body Electrical > SRS Airbag > Trouble Codes

Result	PROCEED TO
DTCs are not output	A
DTCs are output	B

B  **GO TO DTC CHART (AIRBAG SYSTEM)**

A



2. CLEAR DTC

Click here [INFO](#)

NEXT



3. CHECK DTC OUTPUT (HYBRID CONTROL)

(a) Check for DTCs.

Powertrain > Hybrid Control > Trouble Codes

Result	PROCEED TO
P310764 is not output	A

Result	PROCEED TO
P310764 is output	B

B ► **GO TO STEP 5**

A



4.	CHECK FOR INTERMITTENT PROBLEMS
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HINT:

Click here [INFO](#)

OK ► **REPLACE AIRBAG ECU ASSEMBLY**

NG ► **REPAIR OR REPLACE MALFUNCTIONING PARTS, COMPONENT AND AREA**

5.	CHECK AIRBAG ECU ASSEMBLY (CHECK WAVEFORM)
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Result	PROCEED TO
The waveform appears as shown in the illustration.	A
The waveform differs from the one shown in the illustration.	B

A ► **REPLACE HYBRID VEHICLE CONTROL ECU**

B



6.	CHECK CONNECTOR CONNECTION CONDITION (HYBRID VEHICLE CONTROL ECU CONNECTOR)
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Click here 

NG  **CONNECT SECURELY**

OK



7.	CHECK CONNECTOR CONNECTION CONDITION (AIRBAG ECU ASSEMBLY CONNECTOR)
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Click here 

NG  **CONNECT SECURELY**

OK



8.	CHECK HARNESS AND CONNECTOR (HYBRID VEHICLE CONTROL ECU - AIRBAG ECU ASSEMBLY)
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Click here 

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



9.	CHECK HARNESS AND CONNECTOR (AIRBAG ECU ASSEMBLY - BODY GROUND)
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Click here 

OK  **REPLACE AIRBAG ECU ASSEMBLY**

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

