Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002BHVG			
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]			
Title: HYBRID / BATTERY CONTROL: HYBRID BATTERY SYSTEM (for PHEV Model): P31B400; Extreme Hybrid/EV					
Battery Charging Current; 2023 - 2024 MY Prius Prime [03/2023 -]					

DTC P31	Extreme Hybrid/EV Battery Charging Current
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DESCRIPTION

The battery ECU assembly monitors its internal operation. If it detects the following malfunction, it will store this DTC and perform fail-safe control.

DTC	DETECTION	DTC DETECTION	TROUBLE	MIL	WARNING	DTC	PRIORITY	NOTE
NO.	ITEM	CONDITION	AREA		INDICATE	OUTPUT FROM		
P31B400		ll(excessive charging	vehicle control ECU	lnot l	Master Warning: Comes on	HV Battery		SAE Code: P31B4

CONFIRMATION DRIVING PATTERN

HINT:

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

Click here NFO

- 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. Drive the vehicle for approximately 10 minutes according to the freeze frame data items "Vehicle Speed", "Accelerator Position", "Hybrid/EV Battery Current" and "Hybrid/EV Battery Temperature 1 to 15".
- 4. Enter the following menus: Powertrain / HV battery / Utility / All Readiness.
- 5. Check the DTC judgment result.

HINT:

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

PROCEDURE

1. CHECK DTC OUTPUT (HV BATTERY, HYBRID CONTROL)

Pre-procedure1

(a) None

Procedure1

(b) Check for DTCs.

Powertrain > HV Battery > Trouble Codes Powertrain > Hybrid Control > Trouble Codes

RESULT	PROCEED TO		
"P31B400" only is output.	А		
DTCs except "P31B400" of hybrid battery system are output.	В		
DTCs except "P31B400" of hybrid control system are output.	С		

Post-procedure1

(c) Turn the ignition switch off.



B GO TO DTC CHART (HYBRID BATTERY SYSTEM)

C GO TO DTC CHART (HYBRID CONTROL SYSTEM)



