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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HYBRID / BATTERY CONTROL: HYBRID BATTERY SYSTEM (for PHEV Model): P31B549; Hybrid/EV Battery Internal Electronic Failure; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	P31B549	Hybrid/EV Battery Internal Electronic Failure
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DESCRIPTION

The battery ECU assembly monitors its internal operation and will store a DTC when it detects an internal malfunction.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P31B549	Hybrid/EV Battery Internal Electronic Failure	An abnormal signal is detected by the battery ECU assembly (excessive discharging current). (1 trip detection logic)	Hybrid vehicle control ECU	Does not come on	Master Warning: Comes on	HV Battery	A	SAE Code: P31B5

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 [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. Drive the vehicle on urban roads for approximately 10 minutes.
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)
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Pre-procedure1

(a) None

Procedure1

(b) Check for DTCs.

Powertrain > HV Battery > Trouble Codes

Powertrain > Hybrid Control > Trouble Codes

RESULT	PROCEED TO
"P31B549" only is output.	A
DTCs except "P31B549" of hybrid battery system are output.	B
DTCs except "P31B549" of hybrid control system are output.	C

Post-procedure1

(c) Turn the ignition switch off.

A ► REPLACE HYBRID VEHICLE CONTROL ECU

B ► GO TO DTC CHART (HYBRID BATTERY SYSTEM)

C ► GO TO DTC CHART (HYBRID CONTROL SYSTEM)

