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HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): P0D3828; Hybrid/EV Battery Charg...

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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]		
Title: HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): P0D3828; Hybrid/EV				
Battery Charger Input Current Sensor Circuit Signal Bias Level Out of Range / Zero Adjustment Failure; 2023 -				

2024 MY Prius Prime [03/2023 -]

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P0D3828 Hybrid/EV Battery Charger Input Current Sensor Circuit Signal Bias Level Out of Range / Zero Adjustment Failure

DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors the input alternating current using the IAC sensor. If it detects an IAC sensor malfunction, it stores a DTC. When this DTC is output, replace the electric vehicle charger assembly.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT	PRIORITY	NOTE
						FROM		
P0D3828	Hybrid/EV Battery Charger Input Current Sensor Circuit Signal Bias Level Out of Range / Zero Adjustment Failure	assembly is off, IAC current flows.		Comes	Warning:	Plug-in Control		SAE Code: P0D39

MONITOR DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors the input alternating current by the IAC sensor. If it detects an IAC sensor malfunction, it illuminates the MIL and stores a DTC.

MONITOR STRATEGY

Related DTCs	P0D39: Battery Charger Input Current Sensor Circuit Range/Performance	
Required sensors/components	Electric vehicle charger assembly	
Frequency of operation	Continuous	
Duration	TMC's intellectual property	
MIL operation	1 charging cycle 1 discharging cycle	
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not stored	TMC's intellectual property
Other conditions belong to TMC's intellectual property	-

HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): P0D3828; Hybrid/EV Battery Charg...

TYPICAL MALFUNCTION THRESHOLDS

TMC's intellectual property

COMPONENT OPERATING RANGE

Electric vehicle charger assembly

DTC P0D3828 is not detected

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

• When clearing the permanent DTCs, refer to the "CLEAR PERMANENT DTC" procedure.

Click here

- 1. Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
- 2. Enter the following menus: Powertrain / Hybrid Control / Data List.
- 3. Check that "Hybrid/EV Battery SOC" shows 70% or less.
- 4. Turn the ignition switch off and wait for 2 minutes or more.
- 5. Connect the electric vehicle charger cable assembly, and plug-in charge the vehicle for 30 seconds or more. [*1]
- 6. Disconnect the electric vehicle charger cable assembly and wait for 10 seconds or more. [*2]

HINT:

[*1] to [*2]: Normal judgment procedure.

The normal judgment procedure is used to complete DTC judgment and also used when clearing permanent DTCs.

- 7. Enter the following menus: Powertrain / Plug-in Control / Utility / All Readiness.
- 8. 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 the normal judgment procedure again.

PROCEDURE

1.

REPLACE ELECTRIC VEHICLE CHARGER ASSEMBLY

