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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): P1CED1C,P1CF01C; Plug-in Control ECU Power Supply (Plus) Circuit Voltage Out of Range; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	**P1CED1C**	**Plug-in Control ECU Power Supply (Plus) Circuit Voltage Out of Range**

DTC	**P1CF01C**	**Plug-in Control ECU Power Supply (Minus) Circuit Voltage Out of Range**

DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors its internal operation. If it detects a malfunction, it stores a DTC. If the DTC is output, replace the electric vehicle charger assembly.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P1CED1C	Plug-in Control ECU Power Supply (Plus) Circuit Voltage Out of Range	When charging or supplying power, there is an electric vehicle charger assembly (charge control ECU) internal malfunction (Current sensor and voltage sensor (DC high voltage circuit) sensor power source malfunction) (1 trip detection logic)	Electric vehicle charger assembly	Does not come on	Master Warning: Comes on	Plug-in Control	A	SAE Code: P1CED
P1CF01C	Plug-in Control ECU Power Supply (Minus) Circuit Voltage Out of Range	When charging or supplying power, there is an electric vehicle charger assembly (charge control ECU) internal malfunction (Voltage sensor (AC high voltage circuit) sensor power source malfunction) (1 trip detection logic)	Electric vehicle charger assembly	Does not come on	Master Warning: Comes on	Plug-in Control	A	SAE Code: P1CF0

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.

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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.
6. Disconnect the electric vehicle charger cable assembly and wait for 10 seconds or more.
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, perform driving pattern again.

PROCEDURE

1.	**REPLACE ELECTRIC VEHICLE CHARGER ASSEMBLY**

HINT:

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NEXT **COMPLETED**