Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM100000002BIX6
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): P195816; Charger "A" Power Feeding Output Voltage Sensor Circuit Voltage Below Threshold; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	**P195816**	**Charger "A" Power Feeding Output Voltage Sensor Circuit Voltage Below Threshold**

DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors the output AC voltage by the VAO sensor. If it detects a VAO sensor malfunction, it illuminates the MIL and 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 FROM	PRIORITY	NOTE
P195816	Charger "A" Power Feeding Output Voltage Sensor Circuit Voltage Below Threshold	When supplying power from accessory power outlet system in the vehicle, there is a malfunction when there is no VAO signal (1 trip detection logic)	Electric vehicle charger assembly	Comes on	Master Warning: Comes on	Plug-in Control	A	SAE Code: P195A

MONITOR DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors the output AC voltage by the VAO sensor. If it detects a VAO sensor malfunction, it illuminates the MIL and stores a DTC.

MONITOR STRATEGY

Related DTCs	P195A: Battery Charger "A" Outlet Voltage Sensor Circuit Low
Required sensors/components	Electric vehicle charger assembly
Frequency of operation	Continuous
Duration	TMC's intellectual property
MIL operation	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	-

TYPICAL MALFUNCTION THRESHOLDS

TMC's intellectual property	-

COMPONENT OPERATING RANGE

Electric vehicle charger assembly	DTC P195816 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 INFO
- When clearing the permanent DTCs, refer to the "CLEAR PERMANENT DTC" procedure.

  Click here INFO

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 20% or more.
4. Check that there are no malfunctions in the HV battery or hybrid control system.
5. Turn the ignition switch ON (READY) and accessory power outlet switch pushed one time. [*1]
6. Discharge the vehicle for 30 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**

HINT:

Click here INFO

NEXT ▶ **COMPLETED**