Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM100000002BIX5
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): P195162; Charger "A" DC/DC Converter Temperature Sensor (for Charging)/Hybrid/EV Output Temperature Sensor Signal Compare Failure; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	**P195162**	**Charger "A" DC/DC Converter Temperature Sensor (for Charging)/Hybrid/EV Output Temperature Sensor Signal Compare Failure**

DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors its internal operation. If it detects a 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
P195162	Charger "A" DC/DC Converter Temperature Sensor (for Charging)/Hybrid/EV Output Temperature Sensor Signal Compare Failure	The deviation between the VH-DCDC temperature and HVOT temperature is large (1 trip detection logic)	Electric vehicle charger assembly	Comes on	Master Warning: Comes on	Plug-in Control	A	SAE Code: P1951

MONITOR DESCRIPTION

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

MONITOR STRATEGY

Related DTCs	P1951: Battery Charger "A" DC/DC Converter Temperature Sensor/ Battery Charger Output Temperature Sensor Correlation
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	-

TYPICAL MALFUNCTION THRESHOLDS

TMC's intellectual property	-

COMPONENT OPERATING RANGE

Electric vehicle charger assembly	DTC P195162 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 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. [*2]
7. Turn the ignition switch to ON (READY) and wait for 30 minutes or more. [*3]
8. Turn the ignition switch off. [*4]
9. Connect the electric vehicle charger cable assembly, and plug-in charge the vehicle for 30 seconds or more. [*5]
10. Disconnect the electric vehicle charger cable assembly and wait for 10 seconds or more. [*6]

    HINT:

    [*1] to [*6]: Normal judgment procedure.

    The normal judgment procedure is used to complete DTC judgment and also used when clearing permanent DTCs.
11. Enter the following menus: Powertrain / Plug-in Control / Utility / All Readiness.
12. 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