12/16/24, 9:02 PM

HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): P19AF00; Charger "A" DC/DC Con...

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002BIX7				
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 - ]				
Title: HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): P19AF00; Charger "A"						
DC/DC Converter Malfunction (for Power Feeding); 2023 - 2024 MY Prius Prime [03/2023 - ]						

DTC

P19AF00 Cha

Charger "A" DC/DC Converter Malfunction (for Power Feeding)

### **DESCRIPTION**

The charge control ECU built into the electric vehicle charger assembly monitors its internal operation. If it detects a power output malfunction in the electric vehicle charger assembly, 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
P19AF00	Charger "A" DC/DC Converter Malfunction (for Power Feeding)	vehicle, VH voltage is		Comes on	Warning:	Plug-in Control		SAE Code: P19AF

## **MONITOR DESCRIPTION**

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

## **MONITOR STRATEGY**

Related DTCs	P19AF: Battery Charger "A" Power Supply Output Power Performance		
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 P19AF00 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 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



9

ΤΟΥΟΤΑ