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HYBRID / BATTERY CONTROL: PLUG-IN CHARGE CONTROL SYSTEM (for PHEV Model): P166173; Battery Charger "A" Inlet-...

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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): P166173; Battery					
Charger "A" Inlet-Outlet Switching Contactor Actuator Stuck Closed; 2023 - 2024 MY Prius Prime [03/2023 -					

DTC

P166173 Battery

Battery Charger "A" Inlet-Outlet Switching Contactor Actuator Stuck Closed

DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors its internal operation. If it detects a battery charger inlet-outlet switching contactor stuck closed, 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	PRIORITY	NOTE
						FROM		
	Battery Charger "A" Inlet-Outlet Switching Contactor	charging	Electric vehicle charger assembly	Comes on	Warning:	Plug-in Control		SAE Code: P1662

MONITOR DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors its internal operation. If it detects an battery charger inlet-outlet switching contactor stuck closed, it illuminates the MIL and stores a DTC.

MONITOR STRATEGY

Related DTCs	P1662: Battery Charger "A" Inlet-Outlet Switching Contactor Stuck Closed		
Required sensors/components	Electric vehicle charger assembly		
Frequency of operation	Continuous		
Duration	TMC's intellectual property		
MIL operation	1 charging 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 P166173 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.
- 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

