12/16/24, 9:01 PM

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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): P168749; AC Onboard Charger Module A/D Processing Internal Electronic Failure: 2023 - 2024 MY Prius Prime [03/2023 -] | | | | | |

| DTC | P168749 | AC Onboard Charger Module A/D Processing Internal Electronic Failure | |
|-----|---------|--|--|
|-----|---------|--|--|

DESCRIPTION

The charge control ECU built into the electric vehicle charger assembly monitors its internal operation. When this DTC is output, replace the electric vehicle charger assembly.

| DTC | DETECTION ITEM | DTC DETECTION | TROUBLE | MIL | WARNING | DTC | PRIORITY | NOTE |
|---------|--|--|--|-------|--------------------------------|--------------------|----------|-----------------------|
| NO. | | CONDITION | AREA | | INDICATE | OUTPUT FROM | | |
| P168749 | AC Onboard Charger Module A/D Processing Internal Electronic Failure | When charging or supplying power, an AD timeout malfunction is detected by each CPU built into the electric vehicle charger assembly (1 trip detection logic) | Electric vehicle charger assembly | Comes | Master Warning: Comes on | Plug-in Control | A | SAE Code: P1687 |

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 | P1687: Battery Charger Internal Control Module A/D Processing | |
|-----------------------------|---|--|
| 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 P168749 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 NFO

• When clearing the permanent DTCs, refer to the "CLEAR PERMANENT DTC" procedure.

Click here NFO

- 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 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

1. REPLACE ELECTRIC VEHICLE CHARGER ASSEMBLY

HINT:

Click here NFO





ФТОУОТА