Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000002BI34
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HYBRID / BATTERY CONTROL: HYBRID CONTROL SYSTEM (for PHEV Model): P1C6C9F; Generator Shutdown Stuck Off; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	P1C6C9F	Generator Shutdown Stuck Off

DTC SUMMARY

MALFUNCTION DESCRIPTION

The hybrid vehicle control ECU detects malfunctions which prevent the generator (MG1) inverter shutdown circuit from shutting down the hybrid vehicle control system. Detection is performed during the shutdown sequence when the ignition switch is turned off. If generator (MG1) inverter operation is detected after a shutdown signal was sent to the generator (MG1) inverter, the hybrid vehicle control ECU will determine that there is a malfunction and store this DTC.

The cause of this malfunction may be the following:

Inverter with converter assembly SDWN (MG1) internal circuit malfunction

- Inverter with converter assembly malfunction

DESCRIPTION

Refer to the description for DTC P1C6A9F.

Click here [INFO]

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P1C6C9F	Generator Shutdown Stuck Off	When the HV gate block function check is performed (when the ignition switch is turned from ON (READY) to off), the GSDN (MG1 shutdown) signal is sent but the generator (MG1) inverter current and voltage (VH) do not decrease. (1 trip detection logic)	Inverter with converter assembly	Does not come on	Master Warning: Comes on	Hybrid Control	A	SAE Code: P1C6C

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]

1. Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
2. Turn the ignition switch to ON (READY) and wait for 30 seconds or more.
3. Turn the ignition switch off and wait for 30 seconds or more.
4. Enter the following menus: Powertrain / Hybrid Control / Utility / All Readiness.
5. 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, perform driving pattern again.

PROCEDURE

1.	REPLACE INVERTER WITH CONVERTER ASSEMBLY

HINT:

Click here **INFO**

NEXT ▶ END