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<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> HYBRID / BATTERY CONTROL: HYBRID CONTROL SYSTEM (for M20A-FXS): P1F689F; Motor Inverter Shutdown Performance Stuck Off; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>P1F689F</b>	<b>Motor Inverter Shutdown Performance Stuck Off</b>
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## DESCRIPTION

The hybrid vehicle control ECU detects malfunctions which prevent the generator (MG1) inverter and motor (MG2) inverter shutdown circuit from shutting down the hybrid vehicle control system.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P1F689F	Motor Inverter Shutdown Performance Stuck Off	Motor generator control ECU internal malfunction (1 trip detection logic)	Inverter with converter assembly	Does not come on	Master Warning: Comes on	Hybrid Control	A	SAE Code: P1F68

## 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 off and wait for 2 minutes or more.
3. Turn the ignition switch to ON (READY) and wait for 30 seconds or more.
4. Turn the ignition switch off and wait for 2 minutes or more.
5. Enter the following menus: Powertrain / Hybrid Control / Utility / All Readiness.
6. 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

<b>1.</b>	<b>REPLACE INVERTER WITH CONVERTER ASSEMBLY</b>
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### HINT:

Click here [INFO](#)

**NEXT**  **END**

