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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): P33B99F; Motor/Generator Shutdown Signal (Hybrid/EV Side) Stuck Off; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>P33B99F</b>	<b>Motor/Generator Shutdown Signal (Hybrid/EV Side) Stuck Off</b>
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## DTC SUMMARY

### MALFUNCTION DESCRIPTION

The hybrid vehicle control ECU detects malfunctions which prevent the inverter with converter assembly emergency shutdown circuit (HSDN) from shutting down the hybrid control system. Detection is performed when the ignition switch is turned to ON and during the shutdown sequence when the ignition switch is turned off. If the following condition is detected, this DTC will be stored. If the following condition is not detected, DTC P321E9F will be stored.

- Hybrid vehicle control ECU malfunction

## DESCRIPTION

Refer to the description for DTC P321E9F.

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DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P33B99F	Motor/Generator Shutdown Signal (Hybrid/EV Side) Stuck Off	When the HV gate shutdown function check is performed (when the ignition switch is turned from ON (READY) to off) and checked at the motor generator control ECU (MG ECU), the shutdown signals sent by the main CPU and sub CPU of the hybrid vehicle control ECU do not match.  (1 trip detection logic)	Hybrid vehicle control ECU	Does not come on	Master Warning: Comes on	Hybrid Control	A	SAE Code: P33B9

## 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.

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- Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
- 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. Turn the ignition switch to ON (READY) and wait for 30 seconds or more.
6. Turn the ignition switch off and wait for 2 minutes or more.
7. Enter the following menus: Powertrain / Hybrid 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, perform driving pattern again.

## **PROCEDURE**

<b>1.</b>	<b>REPLACE HYBRID VEHICLE CONTROL ECU</b>
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**HINT:**

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**NEXT**  **END**

