

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000029A3U
<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 BATTERY SYSTEM (for M20A-FXS): P060A47; Hybrid/EV Battery Energy Control Module Monitoring Processor Watchdog / Safety MCU Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>P060A47</b>	<b>Hybrid/EV Battery Energy Control Module Monitoring Processor Watchdog / Safety MCU Failure</b>
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## DESCRIPTION

The battery ECU assembly monitors its internal operation and will store these DTCs when it detects an internal malfunction.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P060A47	Hybrid/EV Battery Energy Control Module Monitoring Processor Watchdog / Safety MCU Failure	ECU internal malfunction  (1 trip detection logic)	Battery ECU assembly	Comes on	Master Warning:  Comes on	HV Battery	A	SAE Code: P060A

## MONITOR DESCRIPTION

The battery ECU assembly monitors its internal operation. If the internal operation is malfunctioning, the battery ECU assembly illuminates the MIL and stores a DTC.

## MONITOR STRATEGY

Related DTCs	P060A (INF P060A47): Internal control module monitoring processor (battery energy control module)
Required sensors/components	Battery ECU assembly
Frequency of operation	Continuous
Duration	TMC's intellectual property
MIL operation	Immediately
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

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## COMPONENT OPERATING RANGE

Battery ECU assembly

DTC P060A (INF P060A47) 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 [INFO](#)

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

Click here [INFO](#)

- 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.
- With ignition switch ON and wait for 30 seconds or more.[\*1]

### HINT:

[\*1]: Normal judgment procedure.

The normal judgment procedure is used to complete DTC judgment and also used when clearing permanent DTCs.

- Enter the following menus: Powertrain / HV Battery / Utility / All Readiness.
- 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 the normal judgment procedure again.

## CAUTION / NOTICE / HINT

### NOTICE:

Be sure to check that the applicable DTC is output from the hybrid battery system.

## PROCEDURE

### 1. REPLACE BATTERY ECU ASSEMBLY

### HINT:

Click here [INFO](#)

**NEXT**  **END**

