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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 BATTERY SYSTEM (for M20A-FXS): P0B1362; Hybrid/EV Battery Current Sensor "A"/"B" Signal Compare Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>P0B1362</b>	<b>Hybrid/EV Battery Current Sensor "A"/"B" Signal Compare Failure</b>
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## DESCRIPTION

Refer to the description for DTC P0ABF11.

Click here [INFO](#)

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P0B1362	Hybrid/EV Battery Current Sensor "A"/"B" Signal Compare Failure	A battery current sensor is malfunctioning.* (1 trip detection logic)	<ul style="list-style-type: none"> <li>No. 1 traction battery device box</li> <li>Battery ECU assembly</li> <li>Wire harness or connector</li> </ul>	Comes on	Master Warning: Comes on	HV Battery	A	SAE Code: P0B13

\*: The difference in output of the main and sub battery current sensors is large.

## MONITOR DESCRIPTION

If the battery ECU assembly detects a malfunction in a battery current sensor, the battery ECU assembly will illuminate the MIL and store a DTC.

## MONITOR STRATEGY

Related DTCs	P0B13 (INF P0B1362): Current sensor malfunction
Required sensors/components	Battery current sensor
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
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Other conditions belong to TMC's intellectual property	-
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## TYPICAL MALFUNCTION THRESHOLDS

TMC's intellectual property	-
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## COMPONENT OPERATING RANGE

Battery ECU assembly	DTC P0B13 (INF P0B1362) is not detected
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## 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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- 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.
- Drive the vehicle on urban roads for approximately 10 minutes.[\*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

### CAUTION:

Refer to the precautions before inspecting high voltage circuit.

[Click here](#) INFO

### NOTICE:

- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

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- When disconnecting and reconnecting the auxiliary battery

### HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

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## PROCEDURE

### 1. CHECK DTC OUTPUT (HV BATTERY, HYBRID CONTROL)

Pre-procedure1

(a) None

Procedure1

(b) Check for DTCs.

**Powertrain > HV Battery > Trouble Codes**

**Powertrain > Hybrid Control > Trouble Codes**

RESULT	PROCEED TO
"P0B1362" only is output, or DTCs except the ones in the table below are also output.	A
DTCs of hybrid battery system in the table below are output.	B
DTCs of hybrid control system in the table below are output.	C

SYSTEM	RELEVANT DTC	
Hybrid battery system	P060A47	Hybrid/EV Battery Energy Control Module Monitoring Processor Watchdog / Safety MCU Failure
	P060B49	Hybrid/EV Battery Energy Control Module A/D Processing Internal Electronic Failure
	P060687	Hybrid/EV Battery Energy Control Module Processor to Monitoring Processor Missing Message
Hybrid control system	P0A1F94	Hybrid/EV Battery Energy Control Module Unexpected Operation

Post-procedure1

(c) Turn the ignition switch off.

**B** ► **GO TO DTC CHART (HYBRID BATTERY SYSTEM)**

**C** ► **GO TO DTC CHART (HYBRID CONTROL SYSTEM)**

**A**



### 2. CHECK HARNESS AND CONNECTOR (BATTERY ECU ASSEMBLY - NO. 1 TRACTION BATTERY DEVICE BOX)

Click here [INFO](#)

## NG REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**



### 3. REPLACE NO.1 TRACTION BATTERY DEVICE BOX

**HINT:**

Click here [INFO](#)

**NEXT**



### 4. CLEAR DTC (HV BATTERY)

Pre-procedure1

(a) None

Procedure1

(b) Clear the DTCs and freeze frame data.

**Powertrain > HV Battery > Clear DTCs**

Post-procedure1

(c) Drive the vehicle on urban roads for approximately 10 minutes.

**NEXT**



### 5. CHECK DTC OUTPUT (HV BATTERY)

Pre-procedure1

(a) None

Procedure1

(b) Check for DTCs.

**Powertrain > HV Battery > Trouble Codes**

RESULT	PROCEED TO
DTCs are not output.	A
P0B1362 is also output.	B

Post-procedure1

(c) Turn the ignition switch off.

**A** ► END

**B** ► REPLACE BATTERY ECU ASSEMBLY

