

<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM10000002BEMP
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [03/2023 - ]
<b>Title:</b> HEATING / AIR CONDITIONING: AIR CONDITIONING SYSTEM (for PHEV Model): A/C Switch Indicator does not Turn On; 2023 - 2024 MY Prius Prime [03/2023 - ]		

### A/C Switch Indicator does not Turn On

## DESCRIPTION

If none of the switch indicators on the air conditioning control assembly illuminate, the following factors may be the cause.

MALFUNCTION STATUS	FACTOR
A/C switch indicator does not illuminate	<ul style="list-style-type: none"> <li>Air conditioning amplifier assembly malfunction</li> <li>Air conditioning control assembly malfunction</li> <li>Servo motor initialization (incomplete)</li> <li>Mechanical locking of damper and damper link</li> <li>Refrigerant pressure is extremely low</li> <li>Low detected ambient temperature (including thermistor assembly malfunction)</li> </ul>

## PROCEDURE

<b>1.</b>	<b>CHECK MALFUNCTION STATUS</b>
-----------	---------------------------------

(a) Check the malfunction status of switch indicators on the air conditioning control assembly.

Result	Proceed to
A/C switch indicators are not always illuminated	A
A/C switch indicators are not illuminated only immediately after starting the hybrid control system	B

**B** ► **GO TO INITIALIZATION**

**A**  
▼

## 2. READ VALUE USING GTS

(a) Read the Data List according to the display on the GTS.

### Body Electrical > Air Conditioner > Data List

TESTER DISPLAY	MEASUREMENT ITEM	RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Ambient Temperature Sensor	Ambient temp. sensor (thermistor assembly)	-327.68 to 327.67°C	Actual ambient temperature displayed	Ambient temp. sensor (thermistor assembly) circuit malfunction

### Body Electrical > Air Conditioner > Data List

TESTER DISPLAY
Ambient Temperature Sensor

OK:

The display is as specified in the normal condition column (0°C (32°F) or higher).

**OK** ► **INSPECT REFRIGERANT PRESSURE WITH MANIFOLD GAUGE SET**

**NG** ► **GO TO OTHER DIAGNOSIS PROCEDURE (Ambient Temperature Display System)**

