Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM1000000029X45
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [12/2022 -]
Title: SEAT: SEAT HEATER SYSTEM: B14C111,B14C115; Front Left Seat Heat Sensor Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	**B14C111**	**Front Left Seat Heat Sensor Circuit Short to Ground**

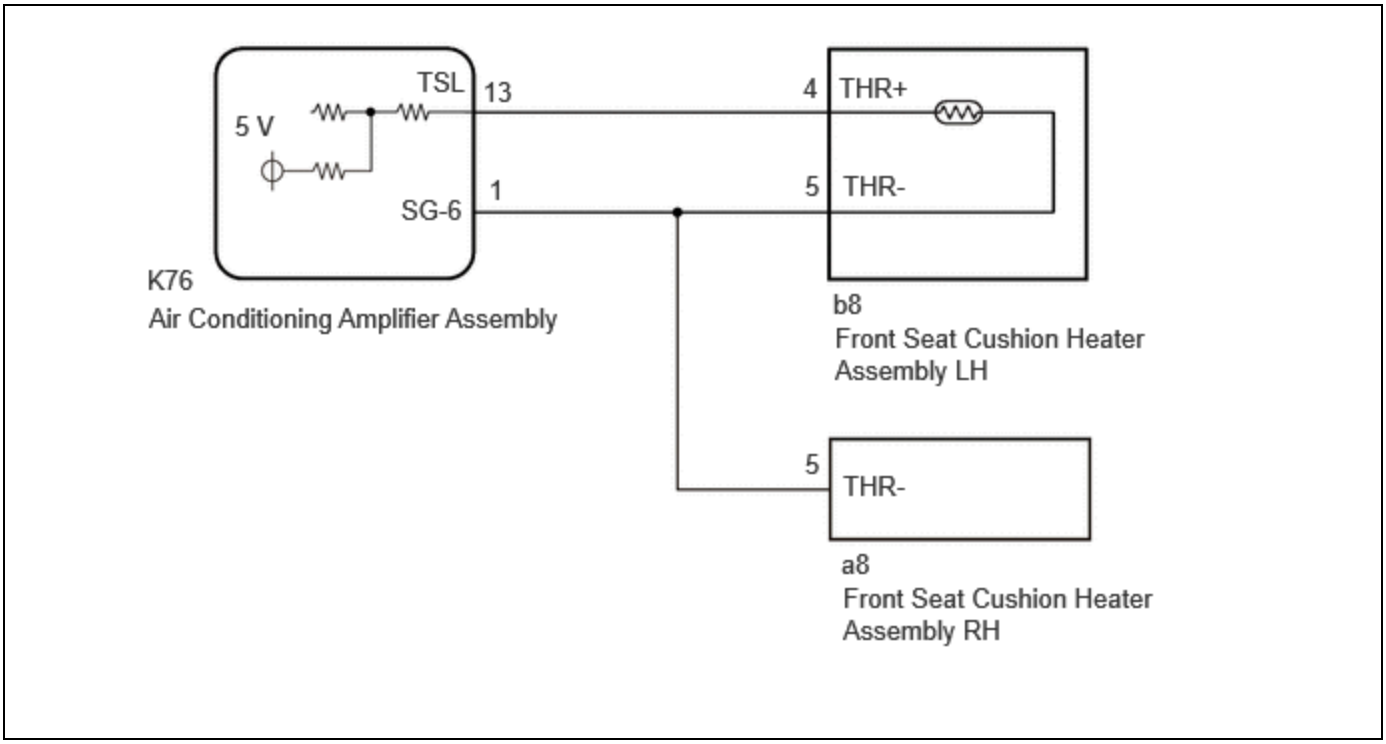
DTC	**B14C115**	**Front Left Seat Heat Sensor Circuit Short to Battery or Open**

DESCRIPTION

Output to the front seat cushion heater temperature sensor stops if one of the following occurs: 1) the temperature sensor is open or shorted; or 2) the temperature sensor is damaged and its output value does not change.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B14C111	Front Left Seat Heat Sensor Circuit Short to Ground	A short to ground in the temperature sensor circuit of the front left seat heater occurs for 4 seconds or more.	• Front seat cushion heater assembly LH • Air conditioning amplifier assembly • Wire harness or connector	Air Conditioner	A
B14C115	Front Left Seat Heat Sensor Circuit Short to Battery or Open	A short to +B or open in the temperature sensor circuit of the front left seat heater occurs for 4 seconds or more.	• Front seat cushion heater assembly LH • Air conditioning amplifier assembly • Wire harness or connector	Air Conditioner	A

WIRING DIAGRAM



PROCEDURE

1.	**CLEAR DTC**

(a) Clear the DTCs.

Body Electrical > Air Conditioner > Clear DTCs

NEXT

2.	**CHECK FOR DTC**

(a) Check for DTCs.

Body Electrical > Air Conditioner > Trouble Codes

RESULT	PROCEED TO
B14C111 and B14C115 are not output	A
B14C111 is output	B
B14C115 is output	C

A ▶ **USE SIMULATION METHOD TO CHECK**

C ▶ **GO TO STEP 4**

B

3.	**CHECK HARNESS AND CONNECTOR (AIR CONDITIONING AMPLIFIER ASSEMBLY - FRONT SEAT CUSHION HEATER ASSEMBLY LH)**

Pre-procedure1

(a) Disconnect the K76 air conditioning amplifier assembly connector.

(b) Disconnect the b8 front seat cushion heater assembly LH connector.

(c) Disconnect the a8 front seat cushion heater assembly RH connector.

Procedure1

(d) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

EWD INFO

Click Location & Routing(K76,b8)
Click Connector(K76)
Click Connector(b8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K76-13 (TSL) or b8-4 (THR+) - Body ground	Always	10 kΩ or higher	kΩ
K76-1 (SG-6) or b8-5 (THR-) - Body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(e) None

OK ▶ **GO TO STEP 5**

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

4.	**CHECK HARNESS AND CONNECTOR (AIR CONDITIONING AMPLIFIER ASSEMBLY - FRONT SEAT CUSHION HEATER ASSEMBLY LH)**

Pre-procedure1

(a) Disconnect the K76 air conditioning amplifier assembly connector.

(b) Disconnect the b8 front seat cushion heater assembly LH connector.

(c) Disconnect the a8 front seat cushion heater assembly RH connector.

Procedure1

(d) Measure the voltage and resistance according to the value(s) in the table below.

Standard Voltage:

EWD INFO

Click Location & Routing(K76,b8)
Click Connector(K76)
Click Connector(b8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K76-13 (TSL) or b8-4 (THR+) - Body ground	Ignition switch ON	Below 1 V	V
K76-1 (SG-6) or b8-5 (THR-) - Body ground	Ignition switch ON	Below 1 V	V

Standard Resistance:

EWD INFO

Click Location & Routing(K76,b8)
Click Connector(K76)
Click Connector(b8)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K76-13 (TSL) - b8-4 (THR+)	Always	Below 1 Ω	Ω
K76-1 (SG-6) - b8-5 (THR-)	Always	Below 1 Ω	Ω

Post-procedure1

(e) None

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK ▼

5.	**INSPECT FRONT SEAT CUSHION HEATER ASSEMBLY LH**

HINT:

Click here INFO

OK ▶ **REPLACE AIR CONDITIONING AMPLIFIER ASSEMBLY**
INFO

NG ▶ **REPLACE FRONT SEAT CUSHION HEATER ASSEMBLY LH** INFO