

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000029X44
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SEAT: SEAT HEATER SYSTEM: B14C011,B14C015; Front Right Seat Heat Sensor Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B14C011	Front Right Seat Heat Sensor Circuit Short to Ground
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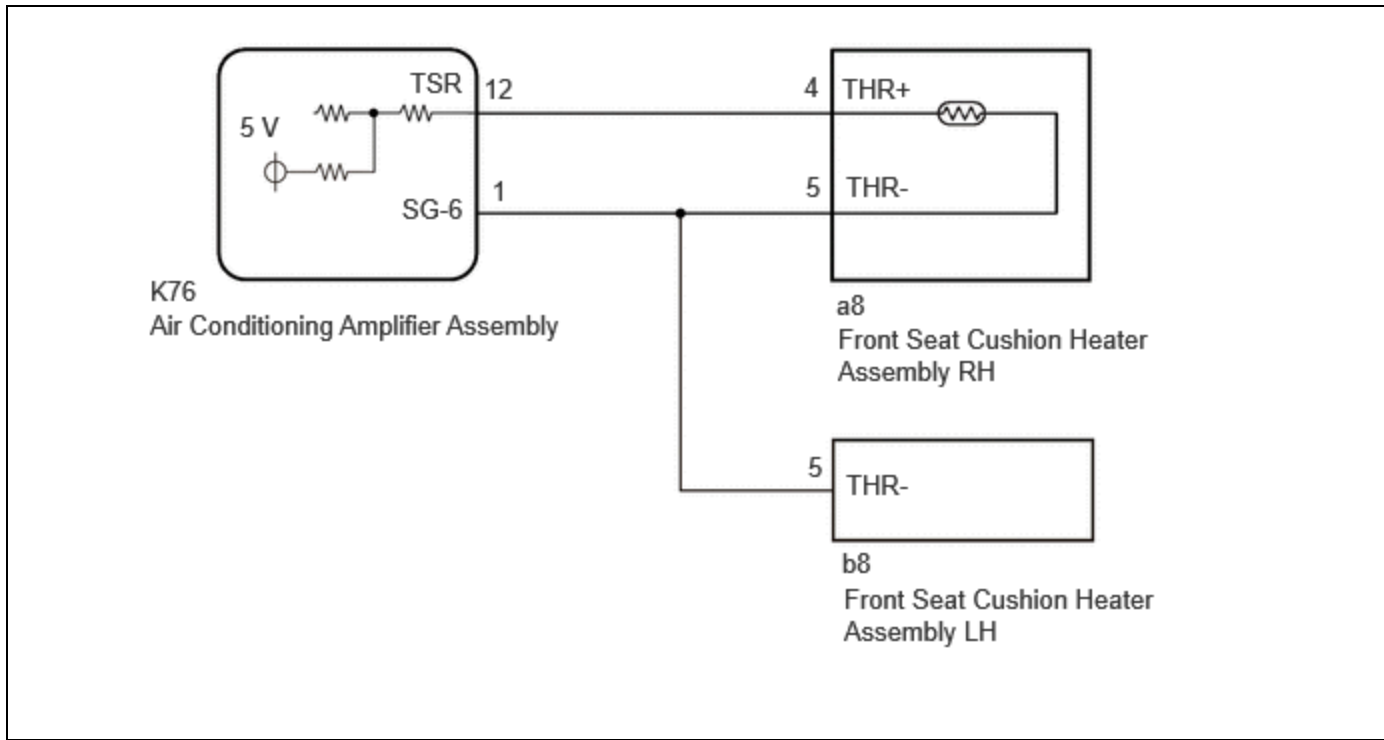
DTC	B14C015	Front Right Seat Heat Sensor Circuit Short to Battery or Open
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DESCRIPTION

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
B14C011	Front Right Seat Heat Sensor Circuit Short to Ground	A short to ground in the temperature sensor circuit of the front right seat heater occurs for 4 seconds or more.	<ul style="list-style-type: none"> Front seat cushion heater assembly RH Air conditioning amplifier assembly Wire harness or connector 	Air Conditioner	A
B14C015	Front Right Seat Heat Sensor Circuit Short to Battery or Open	A short to +B or open in the temperature sensor circuit of the front right seat heater occurs for 4 seconds or more.	<ul style="list-style-type: none"> Front seat cushion heater assembly RH Air conditioning amplifier assembly Wire harness or connector 	Air Conditioner	A

WIRING DIAGRAM



PROCEDURE

1.	CLEAR DTC
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(a) Clear the DTCs.

Body Electrical > Air Conditioner > Clear DTCs

NEXT



2.	CHECK FOR DTC
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(a) Check for DTCs.

Body Electrical > Air Conditioner > Trouble Codes

RESULT	PROCEED TO
B14C011 and B14C015 are not output	A
B14C011 is output	B
B14C015 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 RH)
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Pre-procedure1

- (a) Disconnect the K76 air conditioning amplifier assembly connector.
- (b) Disconnect the a8 front seat cushion heater assembly RH connector.
- (c) Disconnect the b8 front seat cushion heater assembly LH connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(K76,a8\).](#)

[Click Connector\(K76\).](#)

[Click Connector\(a8\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K76-12 (TSR) or a8-4 (THR+) - Body ground	Always	10 kΩ or higher	kΩ
K76-1 (SG-6) or a8-5 (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 RH)
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Pre-procedure1

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

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

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

Procedure1

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

Standard Voltage:



[Click Location & Routing\(K76,a8\).](#)

[Click Connector\(K76\).](#)

[Click Connector\(a8\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K76-12 (TSR) or a8-4 (THR+) - Body ground	Ignition switch ON	Below 1 V	V
K76-1 (SG-6) or a8-5 (THR-) - Body ground	Ignition switch ON	Below 1 V	V

Standard Resistance:



[Click Location & Routing\(K76,a8\).](#)

[Click Connector\(K76\).](#)

[Click Connector\(a8\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K76-12 (TSR) - a8-4 (THR+)	Always	Below 1 Ω	Ω
K76-1 (SG-6) - a8-5 (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 RH
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HINT:

Click here

OK **REPLACE AIR CONDITIONING AMPLIFIER ASSEMBLY**



NG  **REPLACE FRONT SEAT CUSHION HEATER ASSEMBLY**
RH 

