

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000291ZA
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: B1ACA71; Front Right Speaker Cable Actuator Stuck; 2023 - 2024 MY Prius Prime [12/2022 -]		

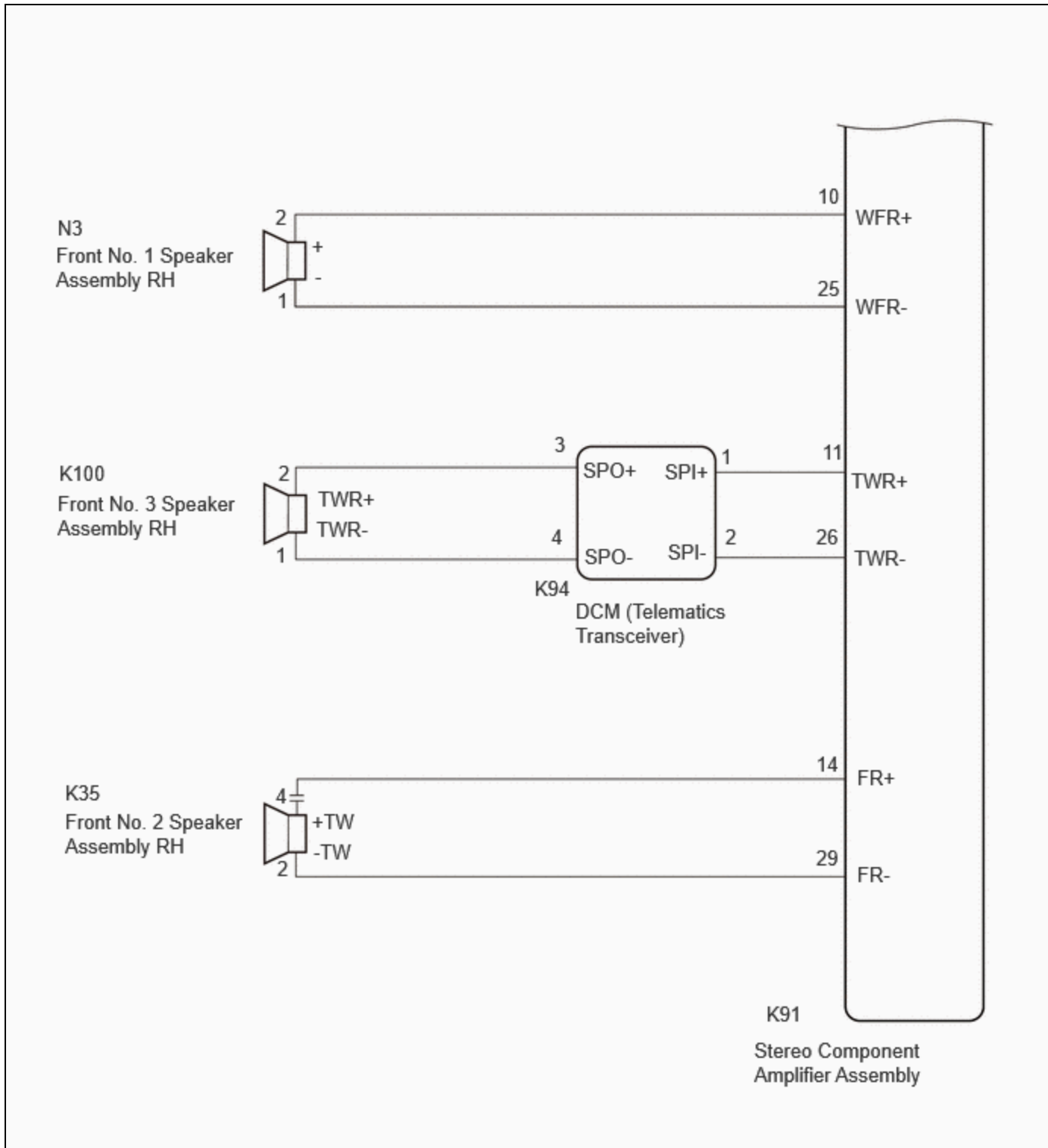
DTC	B1ACA71	Front Right Speaker Cable Actuator Stuck
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DESCRIPTION

This DTC is stored when the stereo component amplifier assembly detects an open in the front speaker RH circuit by energizing the speaker line.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B1ACA71	Front Right Speaker Cable Actuator Stuck	Open in the front speaker RH circuit is detected. (1 trip detection logic)	<ul style="list-style-type: none"> • Harness or connector • Stereo component amplifier assembly • Front No. 1 speaker assembly RH • Front No. 2 speaker assembly RH • Front No. 3 speaker assembly RH 	Navigation System	A

WIRING DIAGRAM



PROCEDURE

1.	CHECK PROBLEM SYMPTOM
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(a) Confirm the problem symptoms and proceed to the respective link.

RESULT	PROCEED TO
No sound is output from the front No. 1 speaker assembly RH or front No. 2 speaker assembly RH	A
No sound is output from the front No. 3 speaker assembly RH	B

B ► **GO TO STEP 9**

A
▼

2.	CHECK HARNESS AND CONNECTOR (STEREO COMPONENT AMPLIFIER ASSEMBLY - FRONT NO.1 SPEAKER ASSEMBLY RH AND NO. 2 SPEAKER ASSEMBLY RH)
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Pre-procedure1

- (a) Disconnect the K91 stereo component amplifier assembly connector.
- (b) Disconnect the N3 front No. 1 speaker assembly RH connector.
- (c) Disconnect the K35 front No. 2 speaker assembly RH connector.

Procedure1

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

Standard Resistance:



- [Click Location & Routing\(K91,K35,N3\)](#)
- [Click Connector\(K91\)](#)
- [Click Connector\(K35\)](#)
- [Click Connector\(N3\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K91-14 (FR+) - K35-4 (+TW)	Always	Below 1 Ω	Ω
K91-29 (FR-) - K35-2 (-TW)	Always	Below 1 Ω	Ω
K91-10 (WFR+) - N3-2 (+)	Always	Below 1 Ω	Ω
K91-25 (WFR-) - N3-1 (-)	Always	Below 1 Ω	Ω

Post-procedure1

- (e) None

NG ► **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK**3. INSPECT FRONT NO. 1 SPEAKER ASSEMBLY RH****HINT:**[Click here](#) **NG**  **REPLACE FRONT NO. 1 SPEAKER ASSEMBLY RH****OK****4. CLEAR DTC**

(a) Clear the DTCs.

Body Electrical > Navigation System > Clear DTCs**NEXT****5. CHECK FOR DTC**

Pre-procedure1

(a) In accordance with the display of the GTS, perform a speaker circuit energization inspection.

HINT:[Click here](#) **Body Electrical > Navigation System > Utility**

TESTER DISPLAY
Speaker Line Electricity Check

Procedure1

(b) Check for DTCs and proceed to the following step.

Body Electrical > Navigation System > Trouble Codes

RESULT	PROCEED TO
B1ACA71 is not output	A
B1ACA71 is output	B

Post-procedure1

(c) None

A ▶ **END (FRONT NO. 1 SPEAKER ASSEMBLY RH IS DEFECTIVE)**

B



6.	REPLACE FRONT NO. 2 SPEAKER ASSEMBLY
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(a) Replace the speaker assembly with a new or known good one.

HINT:

Click here [INFO](#)

NEXT



7.	CLEAR DTC
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(a) Clear the DTCs.

Body Electrical > Navigation System > Clear DTCs

NEXT



8.	CHECK FOR DTC
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Pre-procedure1

(a) In accordance with the display of the GTS, perform a speaker circuit energization inspection.

HINT:

[Click here](#) **INFO**

Body Electrical > Navigation System > Utility

TESTER DISPLAY
Speaker Line Electricity Check

Procedure1

(b) Check for DTCs and proceed to the following step.

Body Electrical > Navigation System > Trouble Codes

RESULT	PROCEED TO
B1ACA71 is not output	A
B1ACA71 is output	B

Post-procedure1

(c) None

A ▶ **END (FRONT NO. 2 SPEAKER ASSEMBLY RH IS DEFECTIVE)**

B ▶ **REPLACE STEREO COMPONENT AMPLIFIER ASSEMBLY**
INFO

9.	CHECK HARNESS AND CONNECTOR (STEREO COMPONENT AMPLIFIER ASSEMBLY - DCM (TELEMATICS TRANSCEIVER))
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Pre-procedure1

(a) Disconnect the K91 stereo component amplifier assembly connector.

(b) Disconnect the K94 DCM (telematics transceiver) connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(K91,K94\).](#)

[Click Connector\(K91\).](#)

[Click Connector\(K94\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K91-11 (TWR+) - K94-1 (SPI+)	Always	Below 1 Ω	Ω
K91-26 (TWR-) - K94-2 (SPI-)	Always	Below 1 Ω	Ω

Post-procedure1

(d) None

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



10.	CHECK HARNESS AND CONNECTOR (DCM (TELEMATICS TRANSCEIVER) - FRONT NO. 3 SPEAKER ASSEMBLY)
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Pre-procedure1

(a) Disconnect the K94 DCM (telematics transceiver) connector.

(b) Disconnect the K100 front No. 3 speaker assembly RH connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(K94,K100\).](#)

[Click Connector\(K94\)](#)

[Click Connector\(K100\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K94-3 (SPO+) or K100-2 (TWR+) - Body ground	Always	10 k Ω or higher	k Ω
K94-4 (SPO-) or K100-1 (TWR-) - Body ground	Always	10 k Ω or higher	k Ω

Post-procedure1

(d) None

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

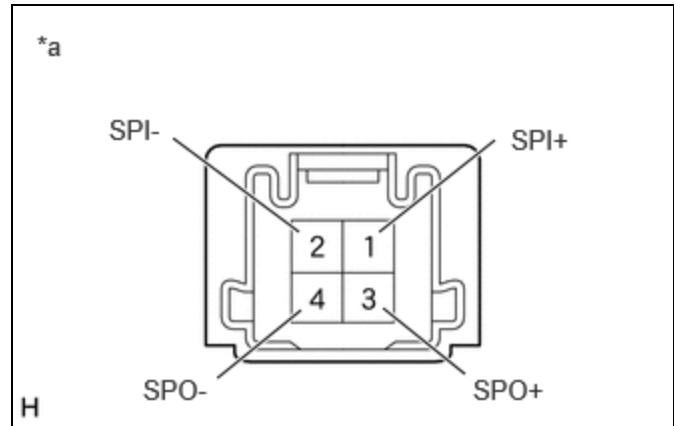
OK



11. INSPECT TELEMATICS TRANSCEIVER

Pre-procedure1

(a) Disconnect the telematics transceiver connector.



*a Component without harness connected (DCM (Telematics Transceiver))

Procedure1

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
1 (SPI+) - 3 (SPO+)	Always	Below 1 Ω	Ω
2 (SPI-) - 4 (SPO-)	Always	Below 1 Ω	Ω
1 (SPI+) - 2 (SPI-)	Always	10 kΩ or higher	kΩ
3 (SPO+) - 4 (SPO-)	Always	10 kΩ or higher	kΩ

Post-procedure1

(c) None

NG **REPLACE DCM (TELEMATICS TRANSCEIVER)**

OK



12. INSPECT FRONT NO. 3 SPEAKER ASSEMBLY

HINT:

Click here

NG  **REPLACE FRONT NO. 3 SPEAKER ASSEMBLY**

OK



13.	CLEAR DTC
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(a) Clear the DTCs.

Body Electrical > Navigation System > Clear DTCs

NEXT



14.	CHECK FOR DTC
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Pre-procedure1

(a) In accordance with the display of the GTS, perform a speaker circuit energization inspection.

HINT:

[Click here](#) 

Body Electrical > Navigation System > Utility

TESTER DISPLAY
Speaker Line Electricity Check

Procedure1

(b) Check for DTCs and proceed to the following step.

Body Electrical > Navigation System > Trouble Codes

RESULT	PROCEED TO
B1ACA71 is not output	A
B1ACA71 is output	B

Post-procedure1

(c) None

A ▶ END (FRONT NO. 3 SPEAKER ASSEMBLY RH IS DEFECTIVE)

B ▶ REPLACE STEREO COMPONENT AMPLIFIER ASSEMBLY

INFO

