

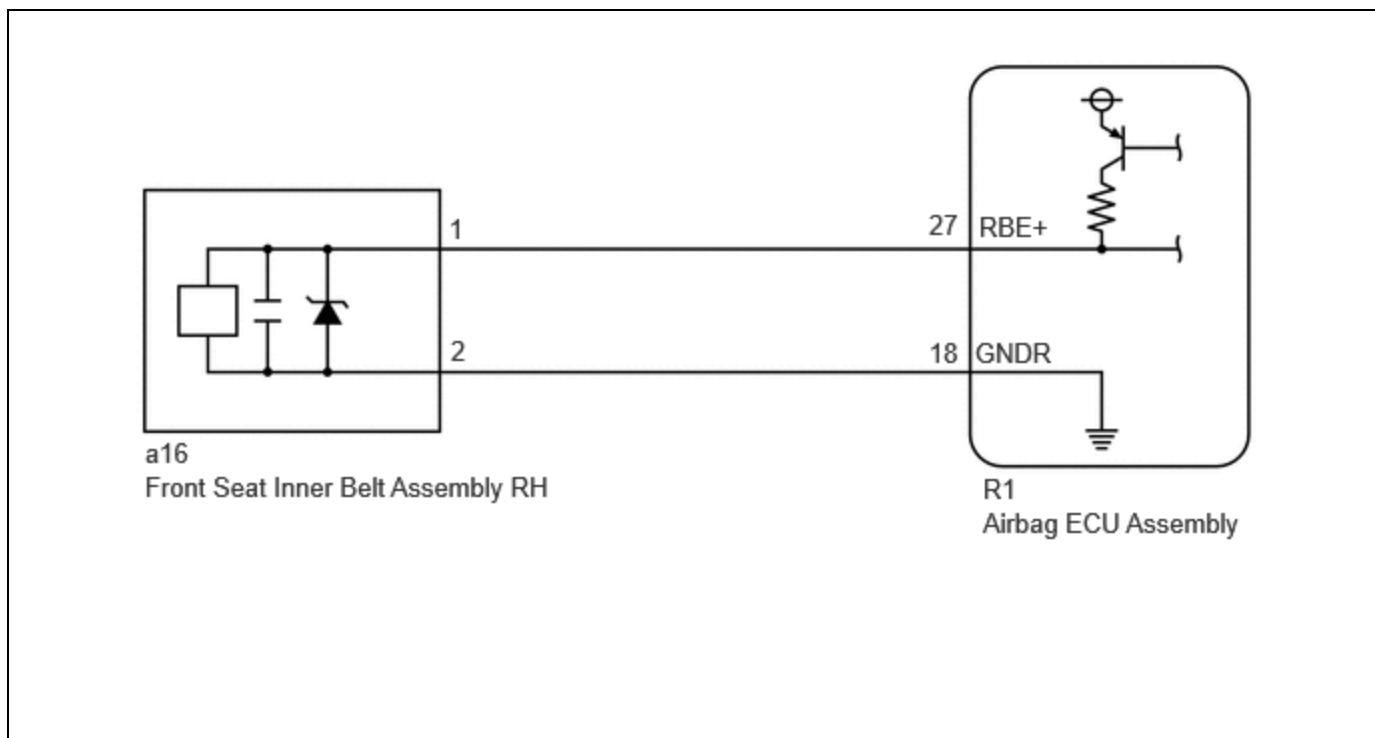
<b>Last Modified:</b> 12-04-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000028UXX
<b>Model Year Start:</b> 2023	<b>Model:</b> Prius Prime	<b>Prod Date Range:</b> [12/2022 - ]
<b>Title:</b> SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B005211; Passenger Seat Belt Sensor Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 - ]		

<b>DTC</b>	<b>B005211</b>	<b>Passenger Seat Belt Sensor Circuit Short to Ground</b>
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## DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B005211	Passenger Seat Belt Sensor Circuit Short to Ground	<p>One of the following conditions is met:</p> <ul style="list-style-type: none"> <li>The airbag ECU assembly detects a short circuit to ground signal in the passenger seat belt sensor circuit for 2 seconds.</li> <li>Passenger seat buckle switch malfunction.</li> <li>Airbag ECU assembly malfunction.</li> </ul>	<ul style="list-style-type: none"> <li>Harness or connector</li> <li>Passenger seat buckle switch (Front seat inner belt assembly RH)</li> <li>Airbag ECU assembly</li> </ul>	Comes on	SRS Airbag	A	Does not apply to test/check mode

## WIRING DIAGRAM



## CAUTION / NOTICE / HINT

### NOTICE:

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

Click here [INFO](#)

### HINT:

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

Click here [INFO](#)

- After replacing the airbag ECU assembly, refer to work procedure.

Click here [INFO](#)

## PROCEDURE

### 1. CHECK CONNECTION OF CONNECTORS

Pre-procedure1

- Turn the ignition switch off.
- Disconnect the cable from the negative (-) auxiliary battery terminal, and wait for at least 60 seconds.

Procedure1

- Check that the connectors are properly connected to the airbag ECU assembly and front seat inner belt assembly RH.

OK:

The connectors are properly connected.

Post-procedure1

(d) None

**NG**  **CONNECT CONNECTORS PROPERLY**

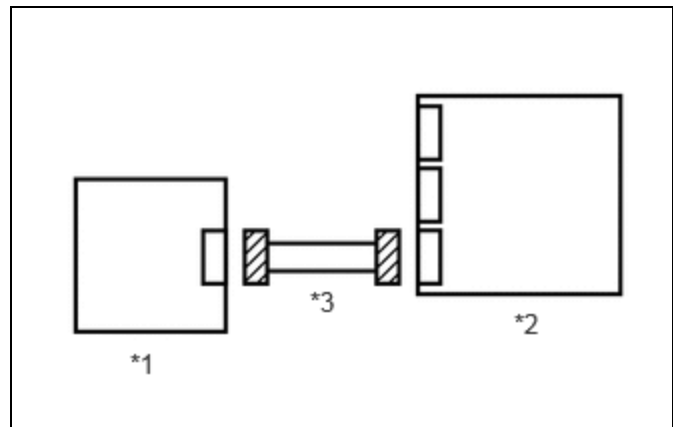
**OK**



<b>2.</b>	<b>CHECK CONNECTORS</b>
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Pre-procedure1

(a) Disconnect the airbag ECU assembly connector.



*1	Front Seat Inner Belt Assembly RH
*2	Airbag ECU Assembly
*3	Wire Harness

(b) Disconnect the front seat inner belt assembly RH connector.

Procedure1

(c) Check that the terminals of the connectors are not deformed or damaged.

OK:

The terminals are not deformed or damaged.

Post-procedure1

(d) None

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

**OK**



**3. CHECK HARNESS AND CONNECTOR (CHECK FOR SHORT IN THE CIRCUIT)**

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

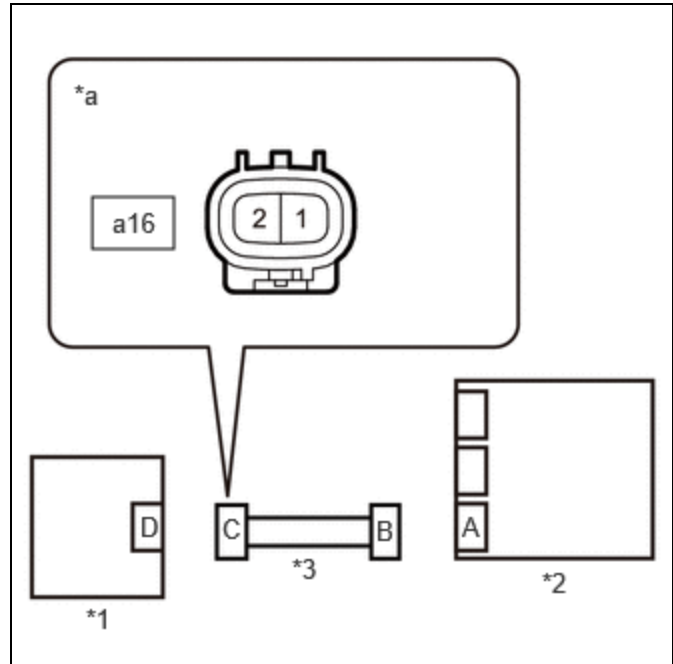
Standard Resistance:



[Click Location & Routing\(a16\)](#)

[Click Connector\(a16\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
a16-1 - a16-2	Always	1 MΩ or higher	MΩ



*1	Front Seat Inner Belt Assembly RH
*2	Airbag ECU Assembly
*3	Wire Harness
*a	Front view of wire harness connector (to Front Seat Inner Belt Assembly RH)

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

**OK**



**4. CHECK HARNESS AND CONNECTOR (CHECK FOR SHORT TO GROUND IN THE CIRCUIT)**

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

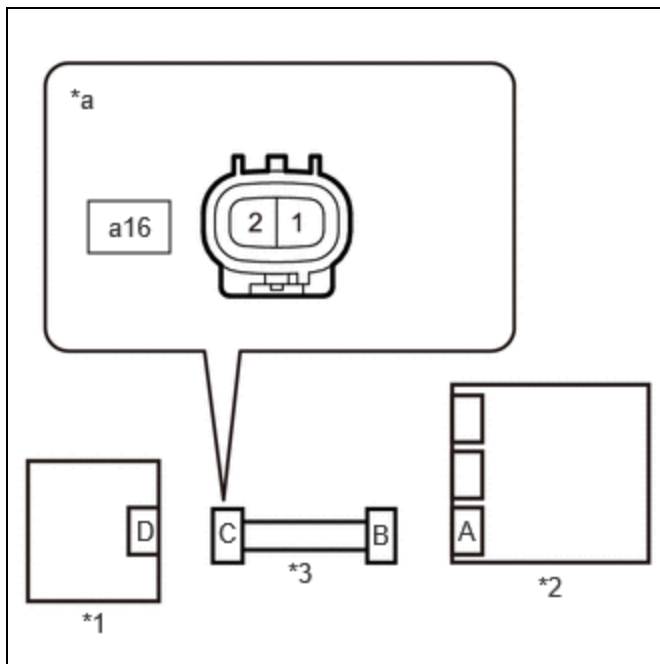
Standard Resistance:



[Click Location & Routing\(a16\)](#)

[Click Connector\(a16\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
a16-1 - Body ground	Always	1 MΩ or higher	MΩ
a16-2 - Body ground	Always	1 MΩ or higher	MΩ



*1	Front Seat Inner Belt Assembly RH
*2	Airbag ECU Assembly
*3	Wire Harness
*a	Front view of wire harness connector (to Front Seat Inner Belt Assembly RH)

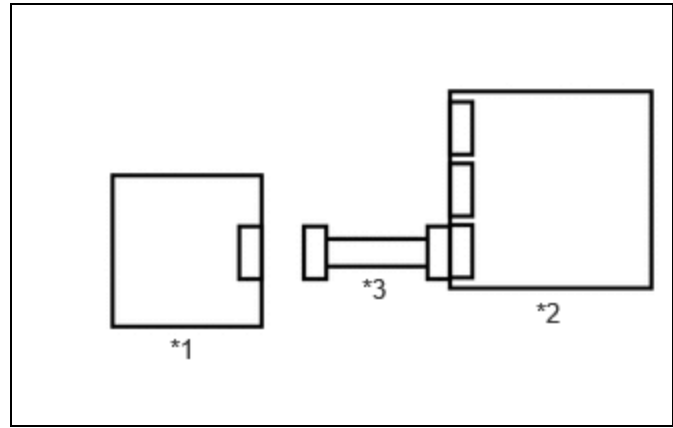
**NG** ► REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**  
▼

<b>5.</b>	<b>CLEAR DTC</b>
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Pre-procedure1

(a) Connect the airbag ECU assembly connector.



*1	Front Seat Inner Belt Assembly RH
*2	Airbag ECU Assembly
*3	Wire Harness

(b) Connect the cable to the negative (-) auxiliary battery terminal, and wait for at least 2 seconds.

(c) Turn the ignition switch to ON, and wait for at least 60 seconds.

Procedure1

(d) Clear the DTCs stored in memory.

**Body Electrical > SRS Airbag > Clear DTCs**

Post-procedure1

(e) Turn the ignition switch off.

**NEXT**



<b>6.</b>	<b>CHECK DTC</b>
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Pre-procedure1

(a) Turn the ignition switch to ON, and wait for at least 60 seconds.

Procedure1

(b) Check for DTCs.

**Body Electrical > SRS Airbag > Trouble Codes**

RESULT	PROCEED TO
B005211 is output	A

RESULT	PROCEED TO
B005211 is not output	B

**HINT:**

Codes other than DTC B005211 may be output at this time, but they are not related to this check.

Post-procedure1

(c) None

**A** ▶ REPLACE AIRBAG ECU ASSEMBLY [INFO](#)

**B** ▶ REPLACE FRONT SEAT INNER BELT ASSEMBLY RH [INFO](#)

