

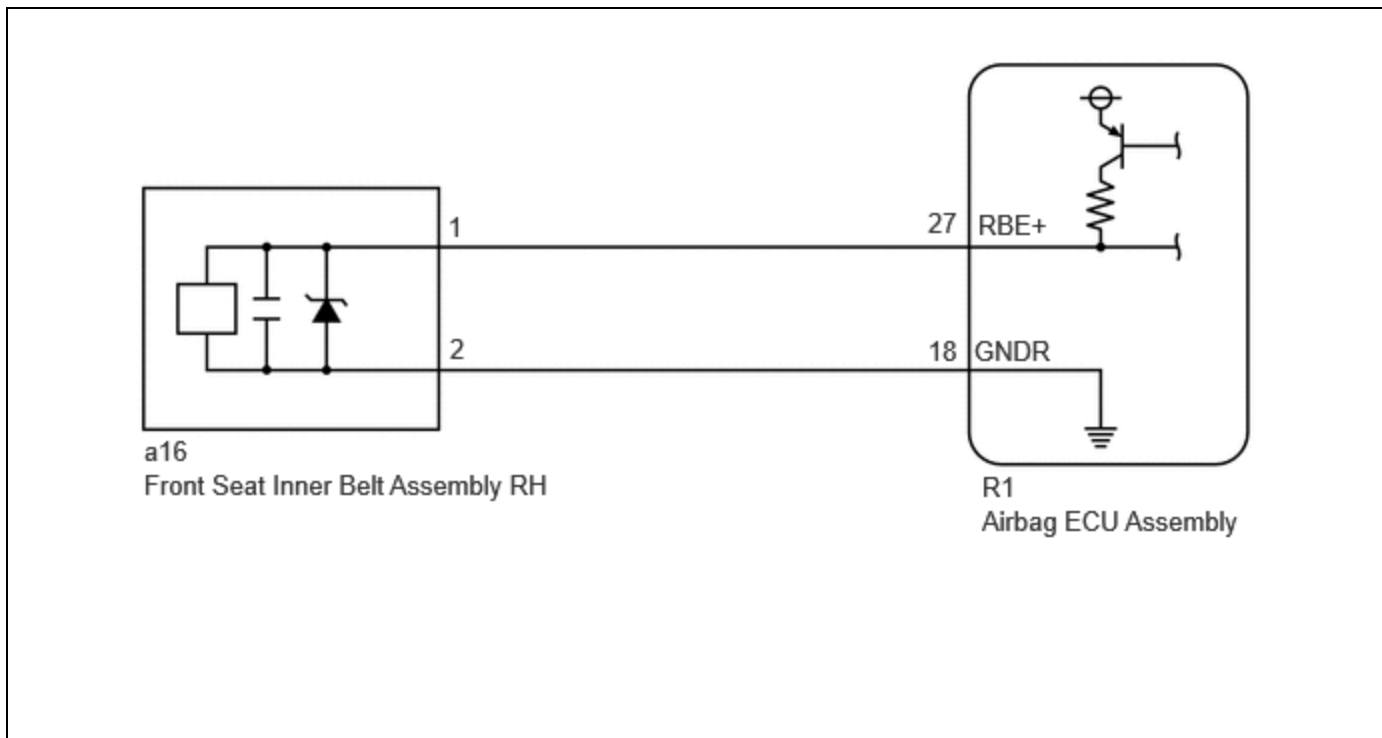
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028UXY
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B005212; Passenger Seat Belt Sensor Circuit Short to Battery; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B005212	Passenger Seat Belt Sensor Circuit Short to Battery
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DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B005212	Passenger Seat Belt Sensor Circuit Short to Battery	One of the following conditions is met: <ul style="list-style-type: none"> The airbag ECU assembly detects a short circuit to +B signal in the passenger seat belt sensor circuit for 2 seconds. Passenger seat buckle switch malfunction. Airbag ECU assembly malfunction. 	<ul style="list-style-type: none"> Harness or connector Passenger seat buckle switch (Front seat inner belt assembly RH) Airbag ECU assembly 	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**

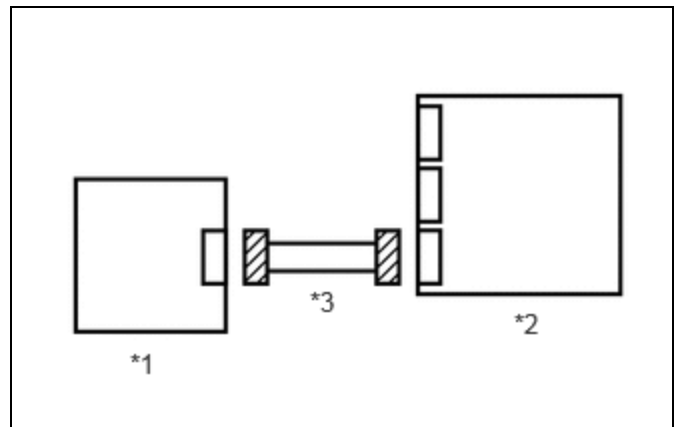
OK



2.	CHECK CONNECTORS
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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 TO +B IN THE CIRCUIT)

Pre-procedure1

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

Procedure1

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

Standard Voltage:



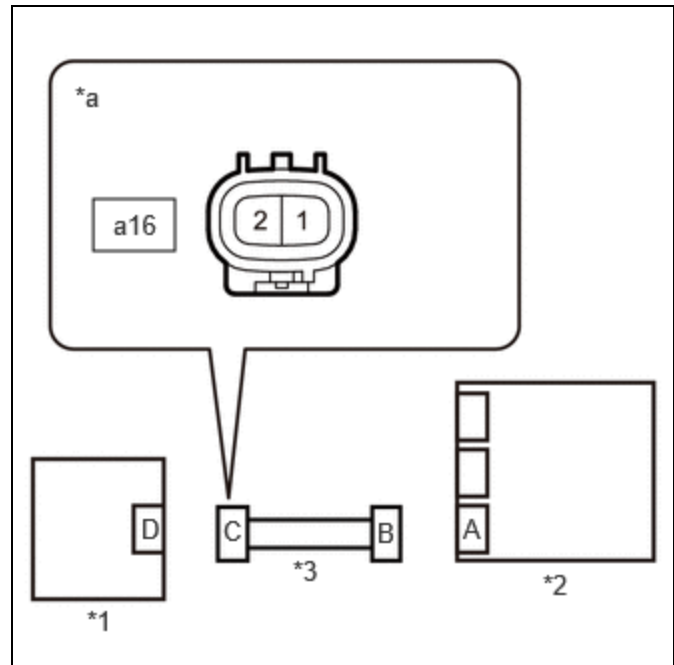
[Click Location & Routing\(a16\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
a16-1 - Body ground	Ignition switch ON	Below 1 V	V
a16-2 - Body ground	Ignition switch ON	Below 1 V	V

Result:

PROCEED TO
OK
NG



*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)

Post-procedure1

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

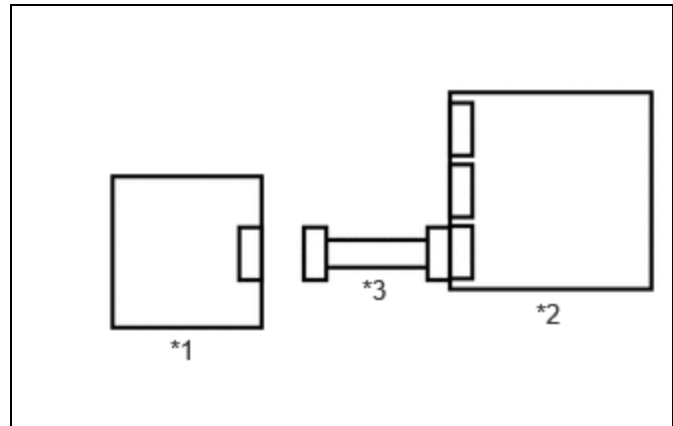
NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR



4. CLEAR DTC

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



5. CHECK DTC

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
B005212 is output	A
B005212 is not output	B

HINT:

Codes other than DTC B005212 may be output at this time, but they are not related to this check.

Post-procedure1

(c) None

A  **REPLACE AIRBAG ECU ASSEMBLY** 

B  **REPLACE FRONT SEAT INNER BELT ASSEMBLY RH** 

