

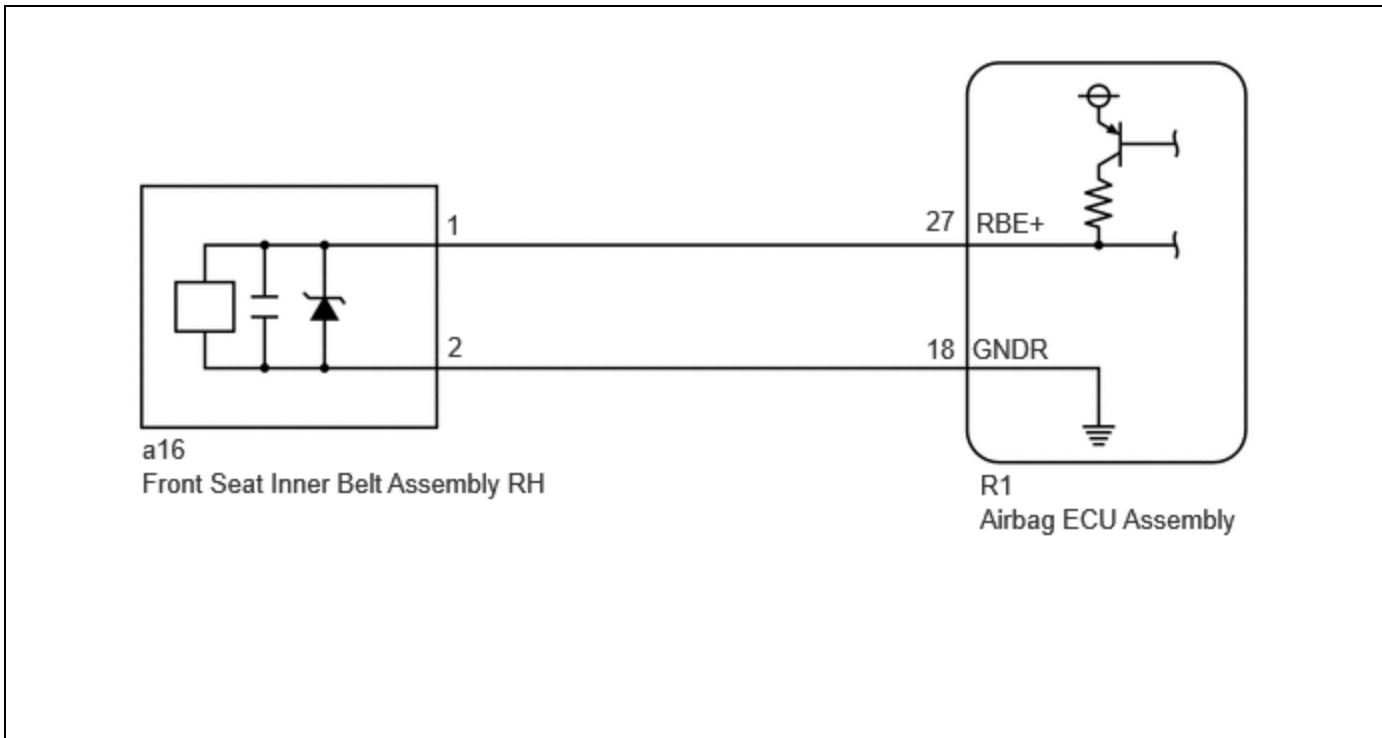
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000028UXZ
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B005213; Passenger Seat Belt Sensor Circuit Open; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B005213	Passenger Seat Belt Sensor Circuit Open
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DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B005213	Passenger Seat Belt Sensor Circuit Open	One of the following conditions is met: <ul style="list-style-type: none"> The airbag ECU assembly detects an open circuit 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

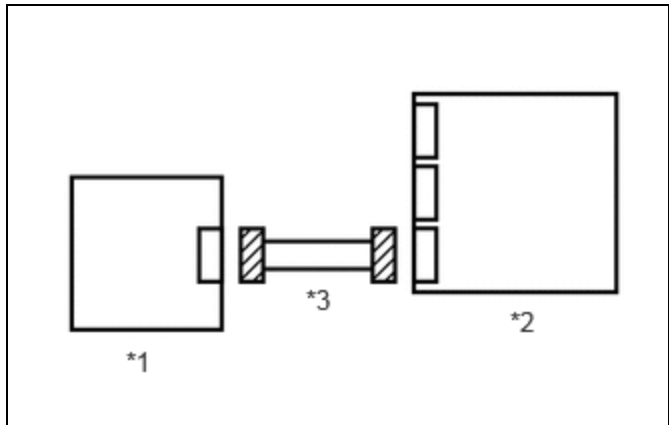
NG  **CONNECT CONNECTORS PROPERLY**

OK



2.	CHECK CONNECTORS
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Pre-procedure1



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

(a) Disconnect the airbag ECU assembly connector.

(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

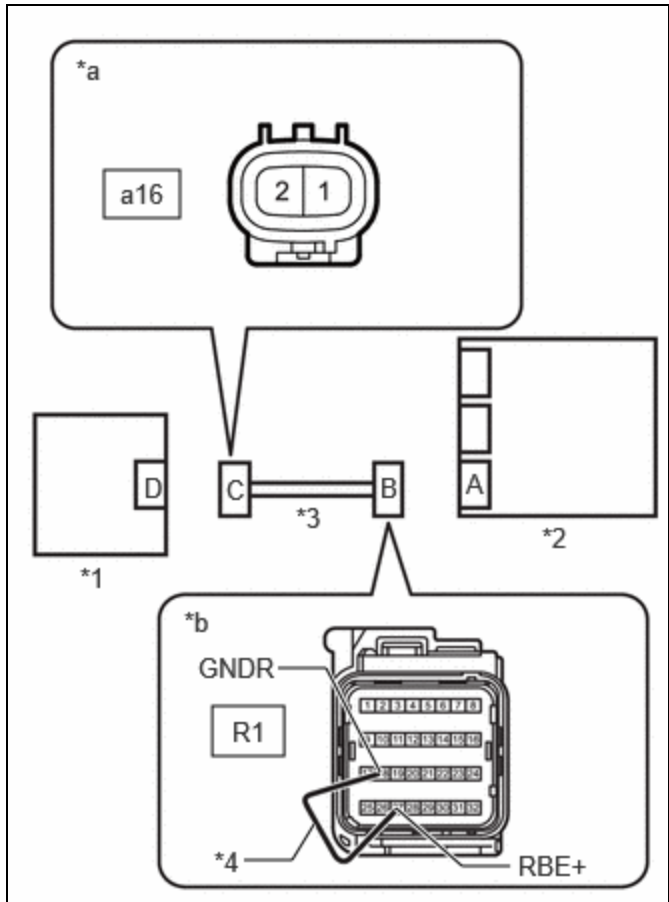
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



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

Pre-procedure1



(a) Using a service wire, connect terminals 27 (RBE+) and 18 (GNDR) of connector B.

NOTICE:

Do not forcibly insert the service wire into the terminals of the connector when connecting a service wire.

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

Procedure1

(b) 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	Below 1 Ω	Ω

Post-procedure1

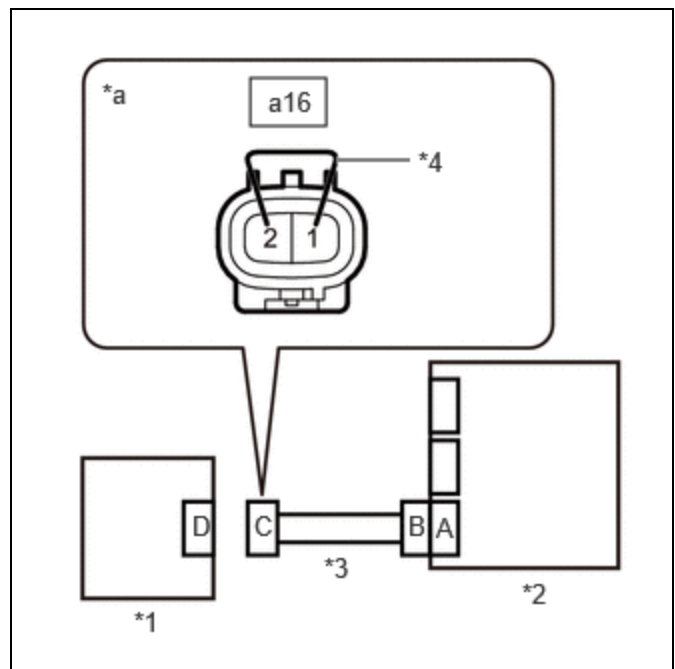
(c) Disconnect the service wire from connector B.

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK


4.	CLEAR DTC
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Pre-procedure1



(a) Using a service wire, connect terminals 1 and 2 of connector C.

NOTICE:

Do not forcibly insert the service wire into the terminals of the connector when connecting a service wire.

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

(b) Connect the airbag ECU assembly connector.

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

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

Procedure1

(e) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

(f) Turn the ignition switch off.

NEXT



5.	CHECK DTC
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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
B005213 is output	A
B005213 is not output	B

HINT:

Codes other than DTC B005213 may be output at this time, but they are not related to this check.

Post-procedure1

(c) Turn the ignition switch off.

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

(e) Disconnect the service wire from connector C.

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

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

