12/16/24, 12:01 AM

SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B002812; Right Side Airbag Deployment Control Circuit Short to ...

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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: SUPPLEMENTAL RESTRAINT S	SYSTEMS: AIRBAG SYSTEM:	B002812; Right Side Airbag Deploym	ent Control
Circuit Short to Battery; 2023 - 2024 MY Prius Prius Prime [12/2022 -]			

DTC

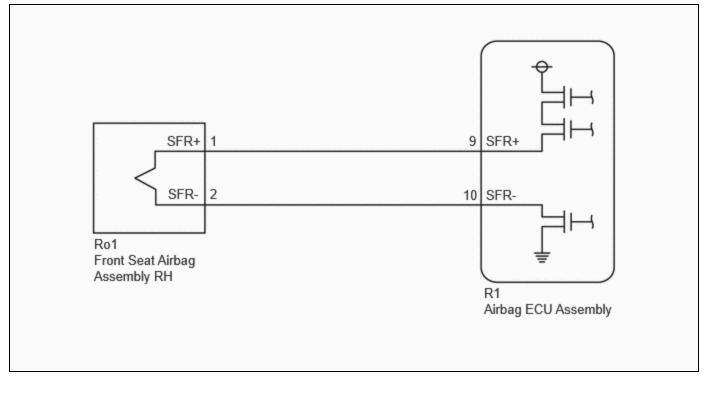
B002812

Right Side Airbag Deployment Control Circuit Short to Battery

DESCRIPTION

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	TEST MODE / CHECK MODE
B002812	Right Side Airbag Deployment Control Circuit Short to Battery	 The airbag ECU assembly detects a short to +B in the front side squib RH circuit for 0.5 seconds. Front seat airbag assembly RH malfunction Airbag ECU assembly malfunction 	 Harness or connector Front seat airbag assembly RH Airbag ECU assembly 	Comes on	SRS Airbag	A	Applies to 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

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

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

Click here

HINT:

• To perform the simulation method, enter check mode (signal check) with the GTS.

Click here

• Perform the simulation method while checking the Data List.



PROCEDURE

1.

CLEAR DTC

Pre-procedure1

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

Procedure1

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(b) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

(c) Turn the ignition switch off.

2.	СНЕСК ДТС
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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
B002812 is output	A
B002812 is not output	В

Post-procedure1

(c) None

B USE SIMULATION METHOD TO CHECK



3.	CHECK CONNECTION OF CONNECTORS
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Pre-procedure1

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(a) Turn the ignition switch off.

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

Procedure1

12/16/24, 12:01 AM SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B002812; Right Side Airbag Deployment Control Circuit Short to ...

(c) Check that the connectors are properly connected to the front seat airbag assembly RH and airbag ECU assembly.

OK:

The connectors are properly connected.

Post-procedure1

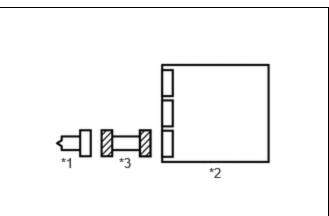
(d) None







Pre-procedure1



(a) Disconnect the airbag ECU assembly connector.

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

(b) Disconnect the front seat airbag 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

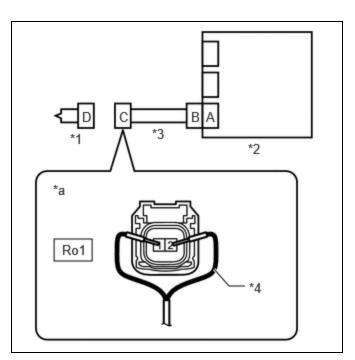
(d) None

NG REPAIR OR REPLACE HARNESS OR CONNECTOR



5. CLEAR DTC

Pre-procedure1



*1	Front Seat Airbag Assembly RH
*2	Airbag ECU Assembly
*3	Wire Harness
*4	SST
*а	Front view of wire harness connector (to Front Seat Airbag Assembly RH)

(a) Connect the airbag ECU assembly connector.

(b) Connect SST (resistance: 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the front seat airbag assembly RH for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert SST into the terminals of the connector when connecting SST.
- Insert SST straight into the terminals of the connector.

SST: 09843-18061

(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.

12/16/24, 12:01 AM SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B002812; Right Side Airbag Deployment Control Circuit Short to ... Procedure1

(e) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

(f) Turn the ignition switch off.

NEXT



6. CHECK FRONT SEAT AIRBAG ASSEMBLY RH

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
B002812 is not output	A
B002812 is output	В

HINT:

Codes other than DTC B002812 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 SST from connector C.

A REPLACE FRONT SEAT AIRBAG ASSEMBLY RH

В

7. CHECK HARNESS AND CONNECTOR

12/16/24, 12:01 AM SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B002812; Right Side Airbag Deployment Control Circuit Short to ... Pre-procedure1

(a) Disconnect the airbag ECU assembly connector.

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

(c) Turn the ignition switch to ON.

Procedure1

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

Standard Voltage:

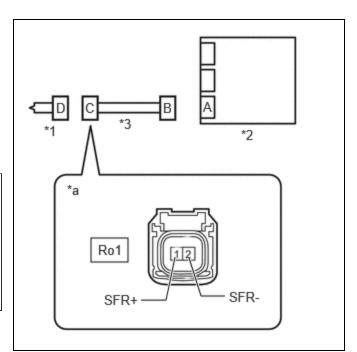


<u>Click Location & Routing(Ro1)</u> <u>Click Connector(Ro1)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
Ro1-1 (SFR+) - Body ground	Ignition switch ON	Below 1 V	V
Ro1-2 (SFR-) - Body ground	Ignition switch ON	Below 1 V	v

Result:

PROCEED TO
ОК
NG



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

Post-procedure1

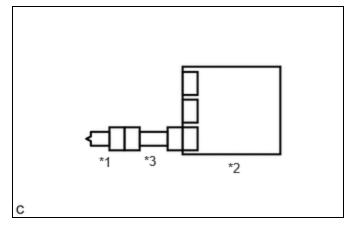
(e) Turn the ignition switch off.

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

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

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8.	CLEAR DTC	
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*1Front Seat Airbag Assembly RH*2Airbag ECU Assembly*3Wire Harness

(a) Connect the airbag ECU assembly connector.

(b) Connect the front seat airbag assembly RH 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.



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	9.	СНЕСК ДТС
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Pre-procedure1

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(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
B002812 is not output	A
B002812 is output	В

HINT:

Codes other than DTC B002812 may be output at this time, but they are not related to this check.

Post-procedure1

(c) None



B REPLACE AIRBAG ECU ASSEMBLY

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