

# Your Ultimate Source for OEM Repair Manuals

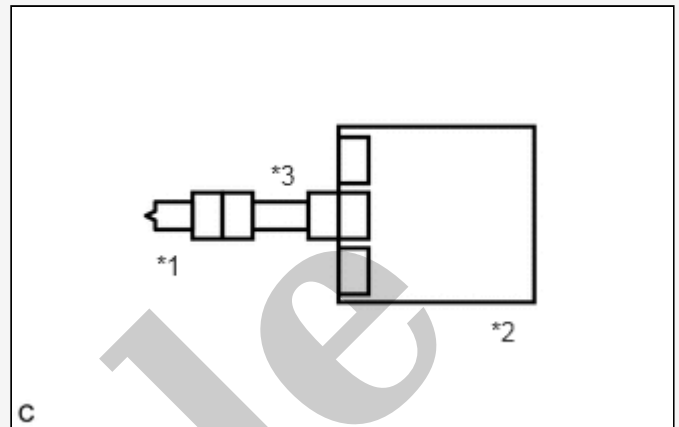
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 2022 Lexus RX 450h Service and Repair Manual

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**OK**
**7. CLEAR DTC**

(a) Connect the airbag ECU assembly connector.



*1	Instrument Panel Passenger Airbag Assembly (Front Passenger Side Squib 2nd Step)
*2	Airbag ECU Assembly
*3	Wire Harness

(b) Connect the instrument panel passenger airbag assembly (front passenger side squib 2nd step) connector.

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

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

(e) Clear the DTCs stored in memory.

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

**NEXT**
**8. CHECK DTC**

Pre-procedure1

(a) Turn the ignition switch off.

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

Procedure1

(c) Check for DTCs.

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

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<b>Model Year Start:</b> 2024	<b>Model:</b> GX550	<b>Prod Date Range:</b> [12/2023 - ]
<b>Title:</b> SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B001112; Passenger Frontal Stage 2 Deployment Control circuit short to battery; 2024 MY GX550 [12/2023 - ]		

<b>DTC</b>	<b>B001112</b>	<b>Passenger Frontal Stage 2 Deployment Control circuit short to battery</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
B001112	Passenger Frontal Stage 2 Deployment Control circuit short to battery	<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 B+ signal in the front passenger side squib 2nd step circuit for 0.5 seconds.</li> <li>An instrument panel passenger without door airbag assembly (front passenger side squib 2nd step) malfunction.</li> <li>An airbag ECU assembly malfunction.</li> </ul>	<ul style="list-style-type: none"> <li>Wire harness</li> <li>Instrument panel passenger without door airbag assembly (front passenger side squib 2nd step)</li> <li>Airbag ECU assembly</li> </ul>	Comes on	SRS Airbag	A	Applicable

## WIRING DIAGRAM

Post-procedure1

(c) None

## **B** ► USE SIMULATION METHOD TO CHECK

Click here [INFO](#)

### **HINT:**

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

Click here [INFO](#)

- Perform the simulation method while checking the Data List.

Click here [INFO](#)

**A**



## **2.** CHECK CONNECTION OF CONNECTORS

Pre-procedure1

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

Procedure1

- (c) Check that the connectors are properly connected to the instrument panel passenger airbag assembly (front passenger side squib 2nd step) and airbag ECU assembly.

OK:

The connectors are properly connected.

Post-procedure1

(d) None

## **NG** ► CONNECT CONNECTORS PROPERLY

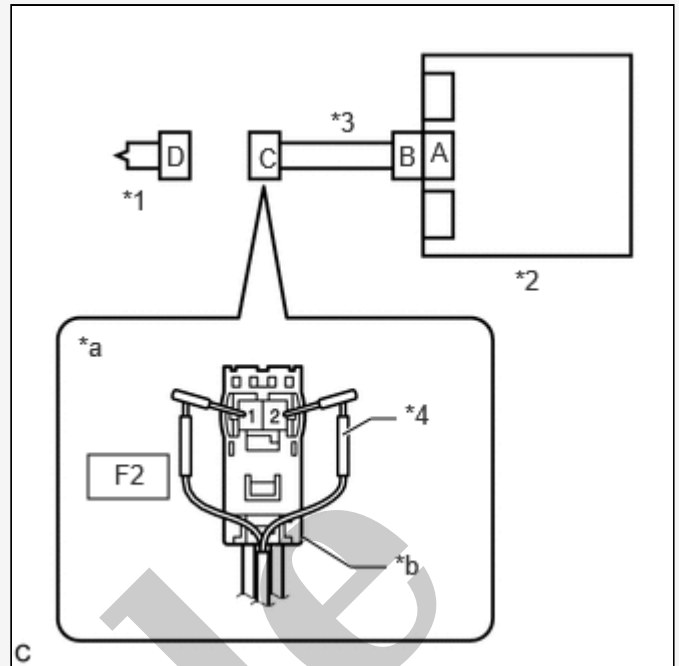
**OK**



## **3.** CHECK CONNECTORS

Pre-procedure1

- (a) Disconnect the airbag ECU assembly connector.



*1	Instrument Panel Passenger Airbag Assembly (Front Passenger Side Squib 2nd Step)
*2	Airbag ECU Assembly
*3	Wire Harness
*4	SST
*a	Front view of wire harness connector (to Instrument Panel Passenger Airbag Assembly (Front Passenger Side Squib 2nd Step))
*b	Color: Black

(b) Connect the white wire side of SST (resistance 2.1  $\Omega$ ) to connector C (black connector).

**CAUTION:**

Never connect a tester to the instrument panel passenger airbag assembly (front passenger side squib 2nd step) 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 it.
- Insert SST straight into the terminals of the connector.

**SST: 09843-18061**

(c) Connect the cable to the negative (-) battery terminal.

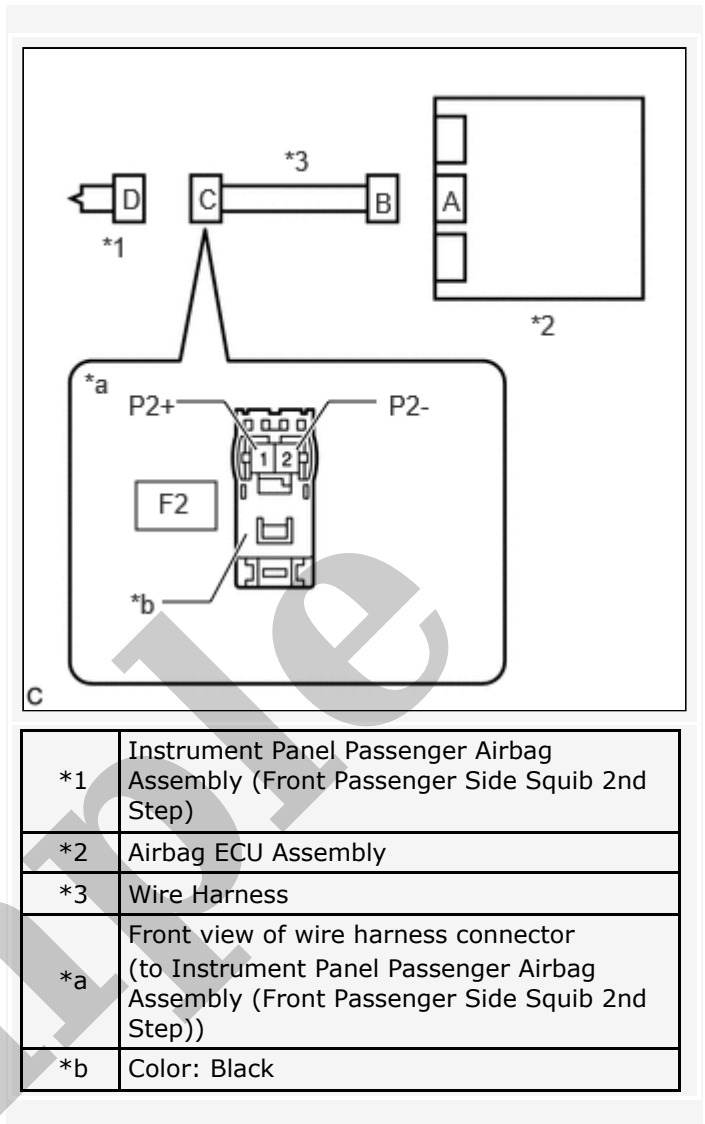
(d) Turn the ignition switch to ON, and wait for at least 60 seconds.

(e) Clear the DTCs stored in memory.

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

**NEXT**





(b) Connect the cable to the negative (-) 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:



[Click Location & Routing\(F2\).](#)

[Click Connector\(F2\).](#)

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION	RESULT
F2-1 (P2+) - Body ground	Ignition switch ON	Below 1 V	V
F2-2 (P2-) - Body ground	Ignition switch ON	Below 1 V	V

Post-procedure1

(e) Turn the ignition switch off.

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

Result	PROCEED TO
B001112 is not output	A
B001112 is output	B

Post-procedure1

(d) None

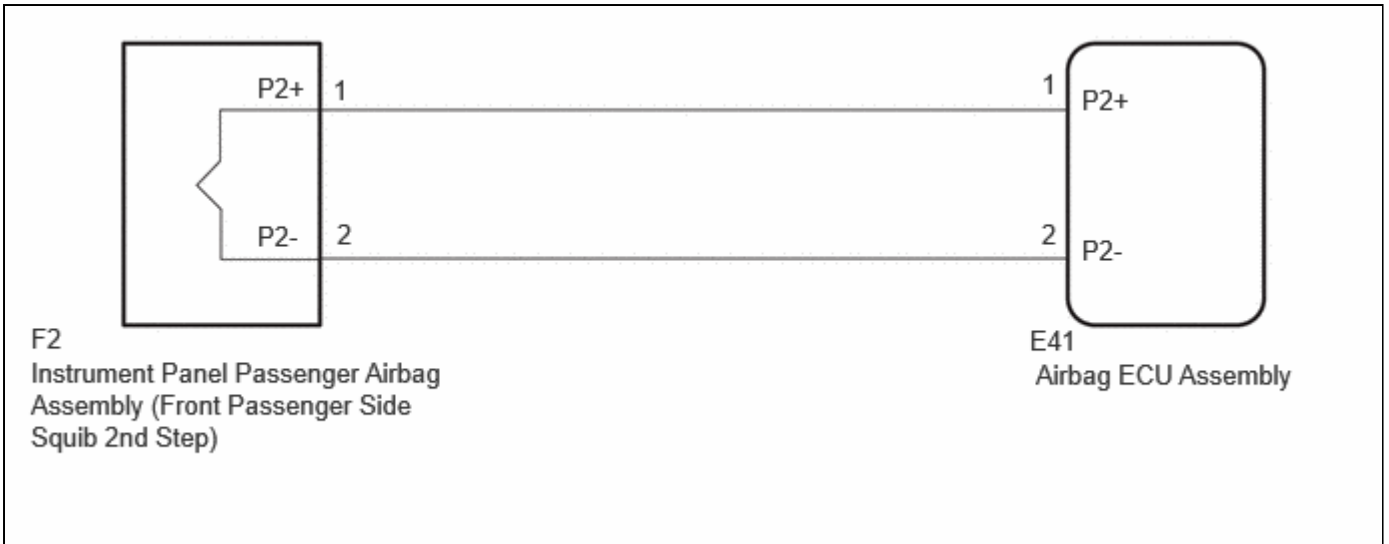
### **A** ► USE SIMULATION METHOD TO CHECK

Click here [INFO](#)

#### **HINT:**

- To perform the simulation method, enter check mode (signal check) with the GTS.  
[Click here](#) [INFO](#)
- Perform the simulation method while checking the Data List.  
[Click here](#) [INFO](#)

### **B** ► REPLACE AIRBAG ECU ASSEMBLY



## CAUTION / NOTICE / HINT

### NOTICE:

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

[Click here](#) INFO

- When disconnecting and reconnecting the battery

### HINT:

When disconnecting and reconnecting the 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 initialization.

[Click here](#) INFO

### HINT:

To perform the simulation method, enter check mode (signal check) with the GTS ( INFO ), and then wiggle each connector of the airbag system or drive the vehicle on various types of road ( INFO ).

## PROCEDURE

<b>1.</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.

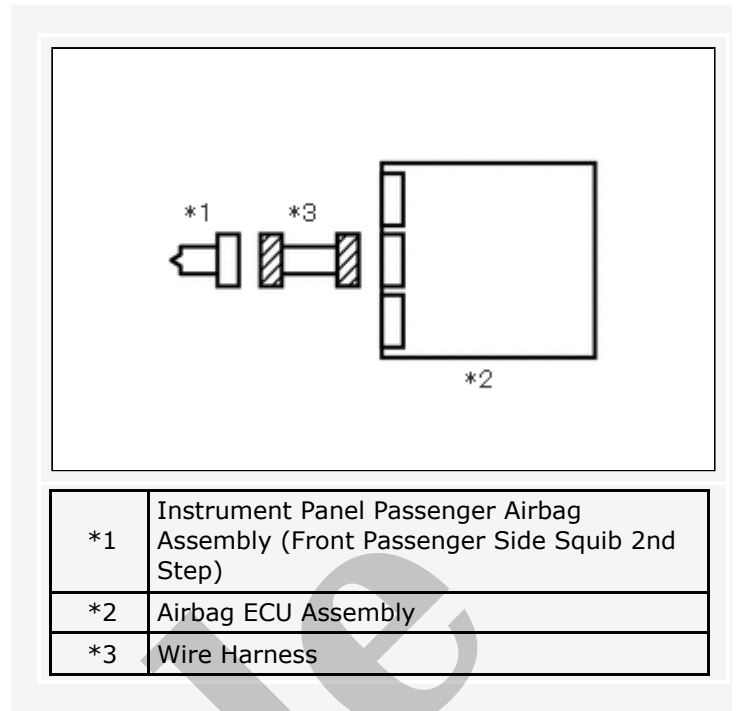
Procedure1

- (b) Check for DTCs.

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

Result	PROCEED TO
B001113 is output	A
History B001113 is output	B





(b) Disconnect the instrument panel passenger airbag assembly (front passenger side squib 2nd step) connector.

Procedure1

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

OK:

The terminals of the connectors are not deformed or damaged.

(d) Check that the connectors are not loose, deformed or damaged.

OK:

The connector locking button is not disengaged, and the claw of the lock is not deformed or damaged.

(e) Check that the short springs of the activation prevention mechanisms of the wire harness connector are not deformed or damaged.

OK:

The short springs are not deformed or damaged.

Post-procedure1

(f) None

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

**OK**



#### **4. CHECK INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY**

(a) Connect the E41 airbag ECU assembly connector.

**5. CHECK INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY**

Pre-procedure1

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

Procedure1

- (c) Check for DTCs.

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

Result	PROCEED TO
B001113 is not output	A
B001113 is output	B

Post-procedure1

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

**A** ▶ REPLACE INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY



**6. CHECK HARNESS AND CONNECTOR**

Pre-procedure1

- (a) Disconnect the E41 airbag ECU assembly connector.

