

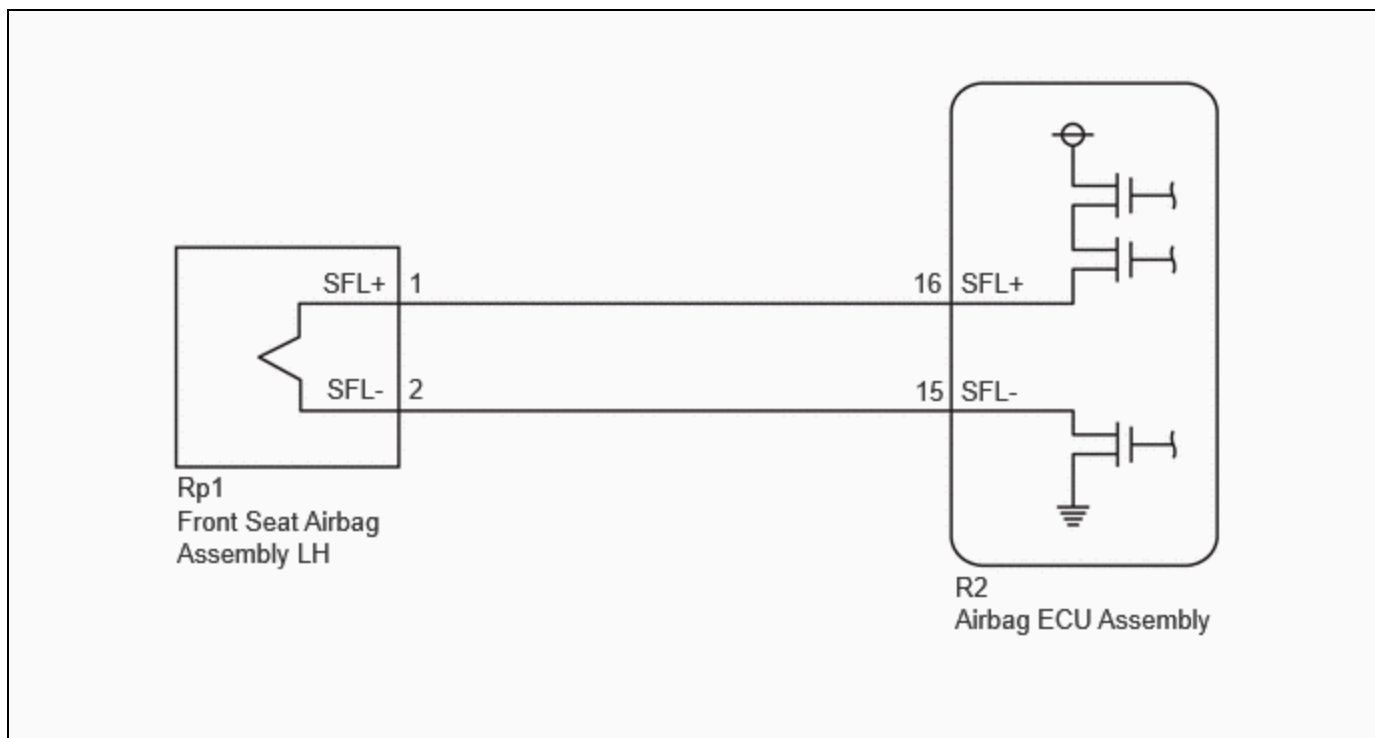
| | | |
|--|---------------------------|--------------------------------------|
| Last Modified: 12-04-2024 | 6.11:8.1.0 | Doc ID: RM100000028UY0 |
| Model Year Start: 2023 | Model: Prius Prime | Prod Date Range: [12/2022 -] |
| Title: SUPPLEMENTAL RESTRAINT SYSTEMS: AIRBAG SYSTEM: B002011; Left Side Airbag Deployment Control Circuit Short to Ground; 2023 - 2024 MY Prius Prius Prime [12/2022 -] | | |

| | | |
|------------|----------------|--|
| DTC | B002011 | Left Side Airbag Deployment Control Circuit Short to Ground |
|------------|----------------|--|

DESCRIPTION

| DTC NO. | DETECTION ITEM | DTC DETECTION CONDITION | TROUBLE AREA | WARNING INDICATE | DTC OUTPUT FROM | PRIORITY | TEST MODE / CHECK MODE |
|---------|---|---|--|------------------|-----------------|----------|------------------------|
| B002011 | Left Side Airbag Deployment Control Circuit Short to Ground | <ul style="list-style-type: none"> The airbag ECU assembly detects a short to ground in the front side squib LH circuit for 0.5 seconds. Front seat airbag assembly LH malfunction Airbag ECU assembly malfunction | <ul style="list-style-type: none"> Harness or connector Front seat airbag assembly LH 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](#) **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**

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**

PROCEDURE

| | |
|-----------|------------------|
| 1. | CLEAR DTC |
|-----------|------------------|

Pre-procedure1

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

Procedure1

(b) Clear the DTCs stored in memory.

Body Electrical > SRS Airbag > Clear DTCs

Post-procedure1

(c) Turn the ignition switch off.

NEXT



| | |
|-----------|------------------|
| 2. | 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 |
|-----------------------|------------|
| B002011 is output | A |
| B002011 is not output | B |

Post-procedure1

(c) None

B **USE SIMULATION METHOD TO CHECK**

A



| | |
|-----------|---------------------------------------|
| 3. | CHECK CONNECTION OF CONNECTORS |
|-----------|---------------------------------------|

Pre-procedure1

(a) Turn the ignition switch off.

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

Procedure1

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

OK:

The connectors are properly connected.

Post-procedure1

(d) None

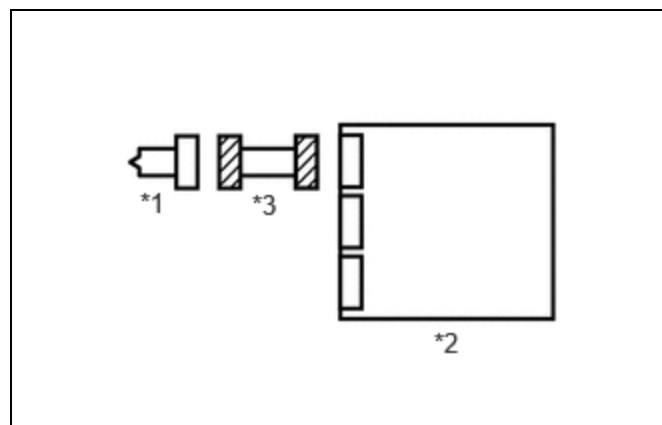
NG  **CONNECT CONNECTORS PROPERLY**

OK



4. CHECK CONNECTORS

Pre-procedure1



(a) Disconnect the airbag ECU assembly connector.

| | |
|----|-------------------------------|
| *1 | Front Seat Airbag Assembly LH |
| *2 | Airbag ECU Assembly |
| *3 | Wire Harness |

(b) Disconnect the front seat airbag assembly LH 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

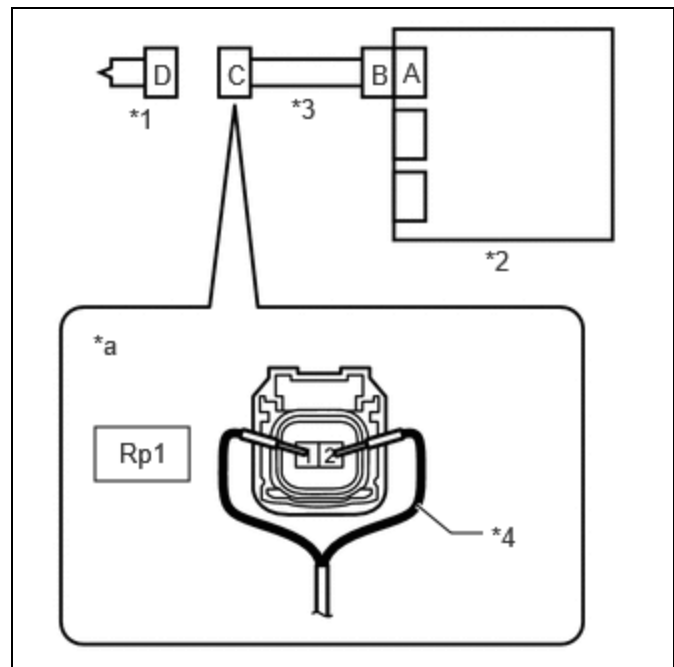
(d) None

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

5. CLEAR DTC

Pre-procedure1



(a) Connect the airbag ECU assembly connector.

| | |
|----|---|
| *1 | Front Seat Airbag Assembly LH |
| *2 | Airbag ECU Assembly |
| *3 | Wire Harness |
| *4 | SST |
| *a | Front view of wire harness connector (to Front Seat Airbag Assembly LH) |

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

CAUTION:

Never connect the tester to the front seat airbag assembly LH 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.

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 LH |
|-----------|--|

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 |
|-----------------------|------------|
| B002011 is not output | A |
| B002011 is output | B |

HINT:

Codes other than DTC B002011 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 LH**

B



| | |
|-----------|------------------------------------|
| 7. | CHECK HARNESS AND CONNECTOR |
|-----------|------------------------------------|

Pre-procedure1

(a) Disconnect the airbag ECU assembly connector.

Procedure1

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

Standard Resistance:



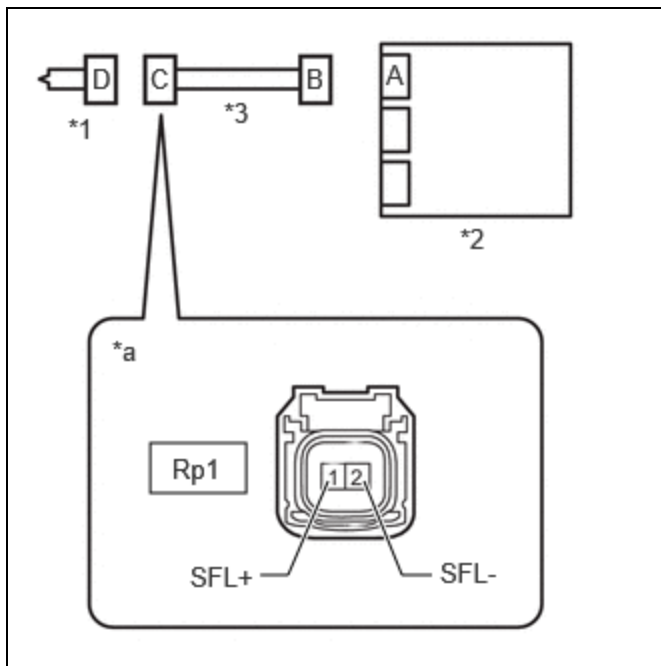
[Click Location & Routing\(Rp1\)](#)

[Click Connector\(Rp1\)](#)

| TESTER CONNECTION | CONDITION | SPECIFIED CONDITION | RESULT |
|----------------------------|-----------|---------------------|--------|
| Rp1-1 (SFL+) - Body ground | Always | 1 MΩ or higher | MΩ |
| Rp1-2 (SFL-) - Body ground | Always | 1 MΩ or higher | MΩ |

Result:

| |
|------------|
| PROCEED TO |
| OK |
| NG |



| | |
|----|---|
| *1 | Front Seat Airbag Assembly LH |
| *2 | Airbag ECU Assembly |
| *3 | Wire Harness |
| *a | Front view of wire harness connector (to Front Seat Airbag Assembly LH) |

Post-procedure1

(c) None

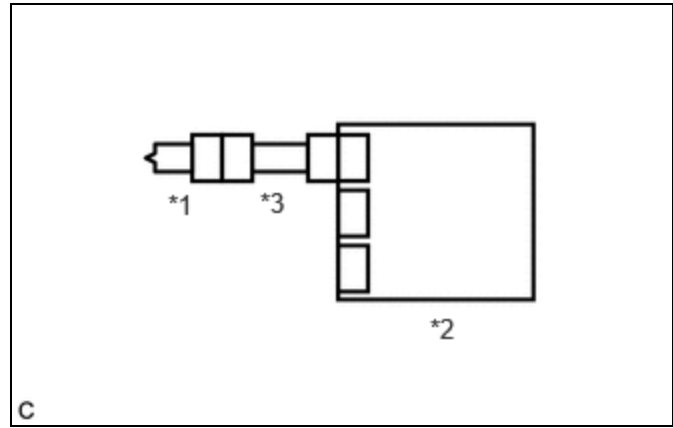
NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

OK
▼

| | |
|-----------|------------------|
| 8. | CLEAR DTC |
|-----------|------------------|

Pre-procedure1

(a) Connect the airbag ECU assembly connector.



| | |
|----|-------------------------------|
| *1 | Front Seat Airbag Assembly LH |
| *2 | Airbag ECU Assembly |
| *3 | Wire Harness |

- (b) Connect the front seat airbag assembly LH 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



| | |
|-----------|------------------|
| 9. | 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 |
|-----------------------|------------|
| B002011 is not output | A |

| RESULT | PROCEED TO |
|-------------------|------------|
| B002011 is output | B |

HINT:

Codes other than DTC B002011 may be output at this time, but they are not related to this check.

Post-procedure1

(c) None

A ► **USE SIMULATION METHOD TO CHECK**

B ► **REPLACE AIRBAG ECU ASSEMBLY** **INFO**

