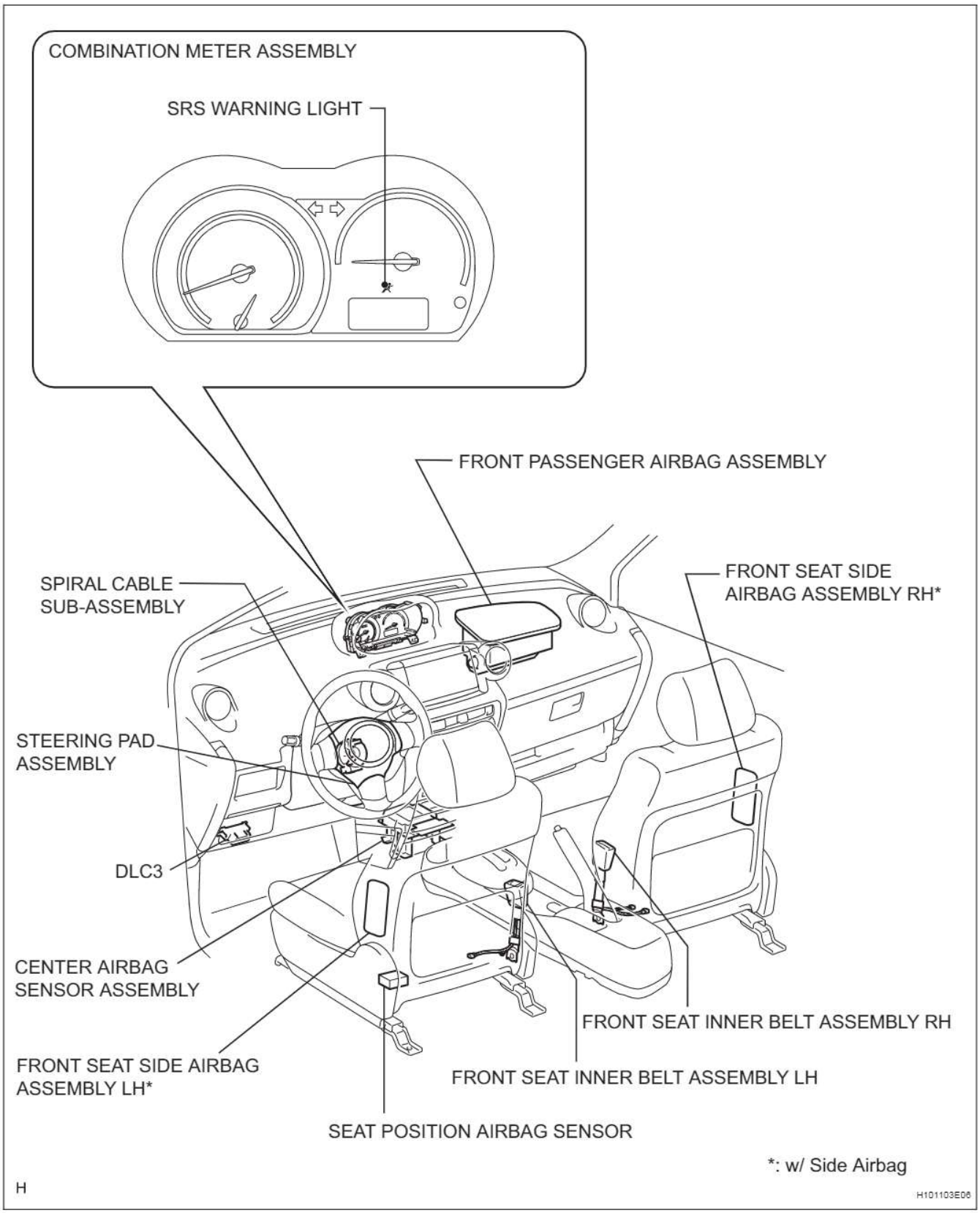
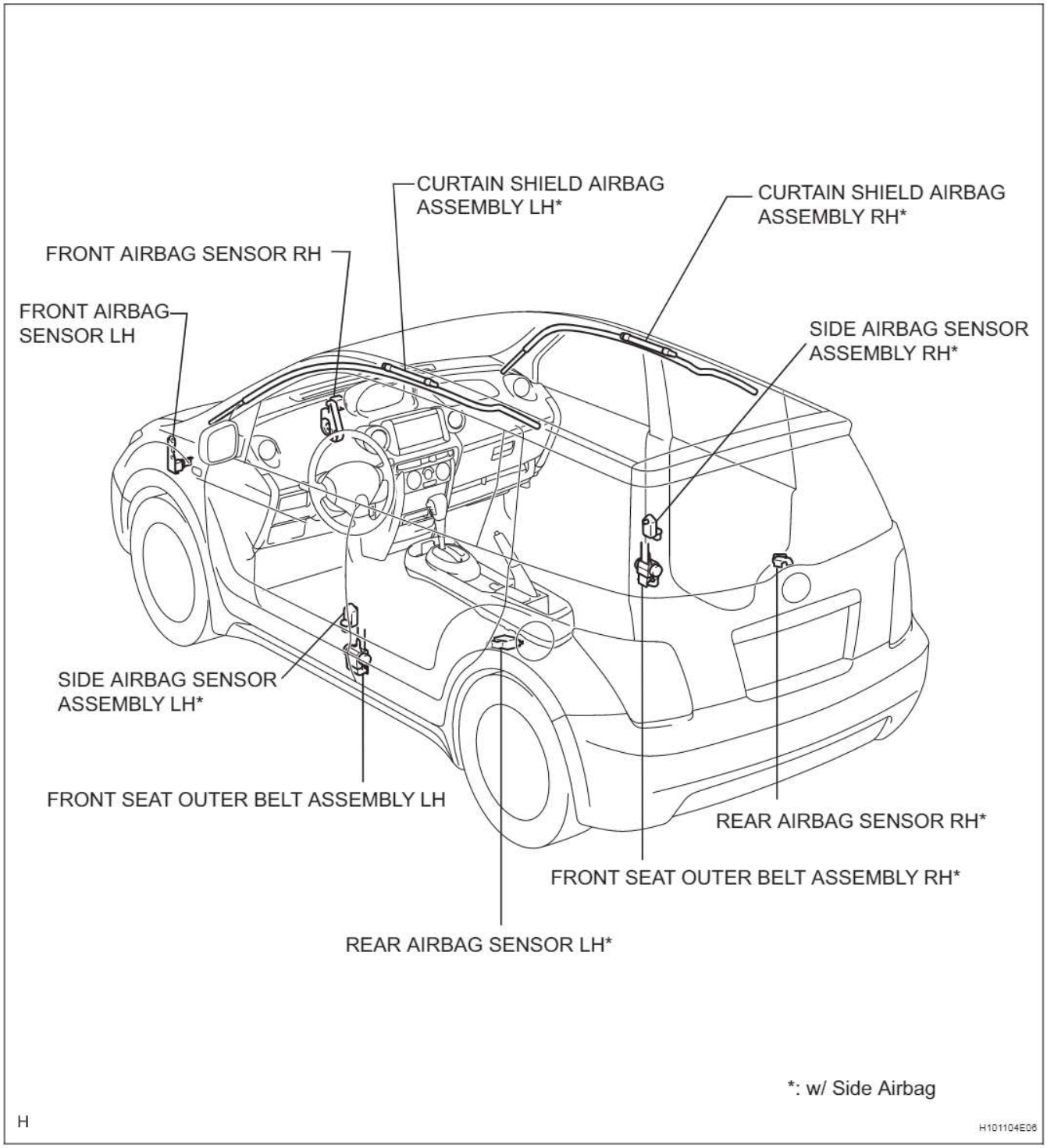
RS

# PARTS LOCATION




CURTAIN SHIELD AIRBAG ASSEMBLY LH*
CURTAIN SHIELD AIRBAG ASSEMBLY RH*
FRONT AIRBAG SENSOR RH
FRONT AIRBAG SENSOR LH
SIDE AIRBAG SENSOR ASSEMBLY RH*
SIDE AIRBAG SENSOR ASSEMBLY LH*
FRONT SEAT OUTER BELT ASSEMBLY LH
REAR AIRBAG SENSOR RH*
FRONT SEAT OUTER BELT ASSEMBLY RH*
REAR AIRBAG SENSOR LH*
*: w/ Side Airbag
H
H101104E06

RS

# SYSTEM DIAGRAM

## 1. RELEASE METHOD OF ACTIVATION PREVENTION MECHANISM

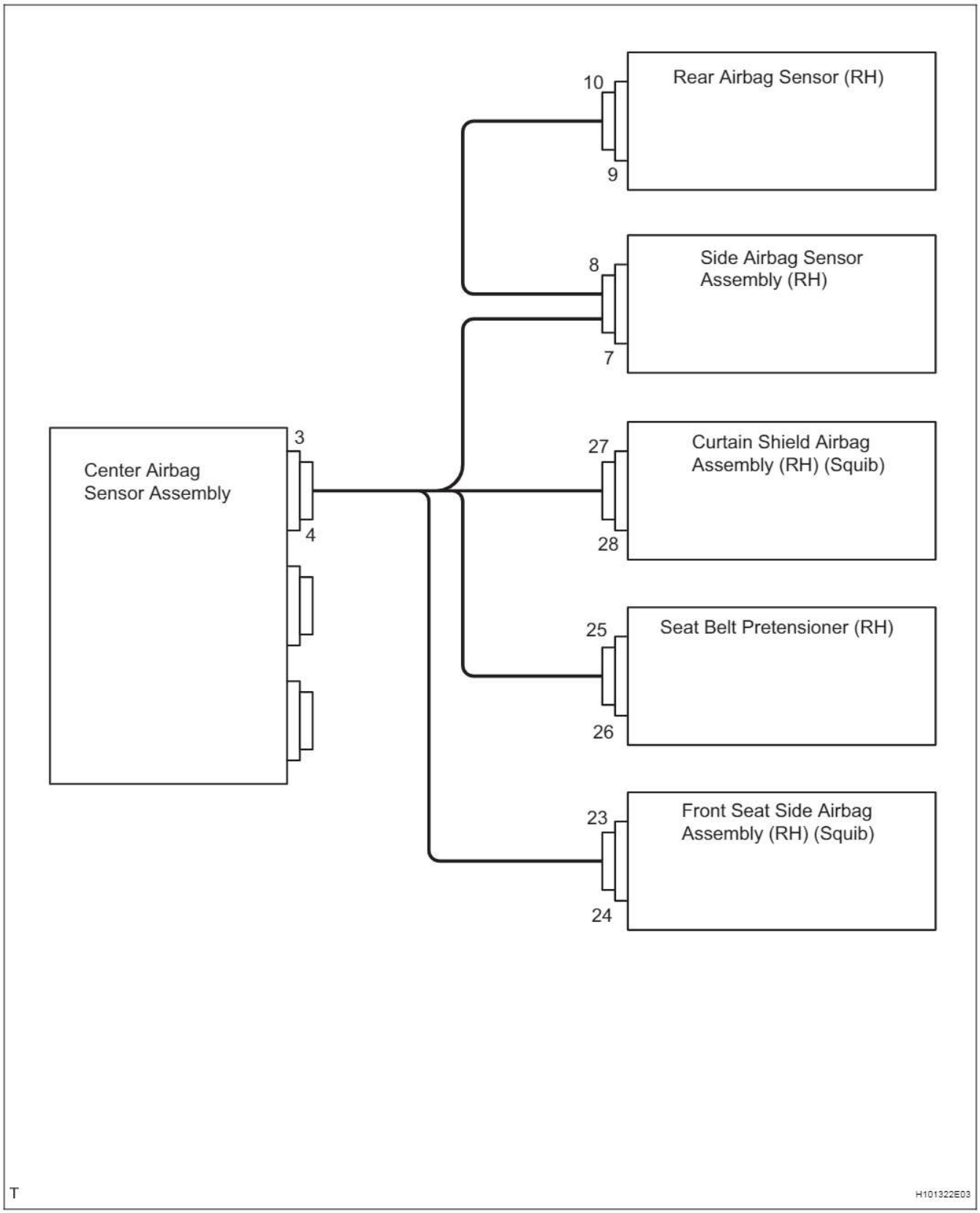
(a) The activation prevention mechanism is built into the connector for the squib circuit of the SRS. As explained in the troubleshooting section, insert a piece of paper that is the same thickness as the male terminal between the terminal and the short spring to release it (refer to illustrations below).

**CAUTION:**

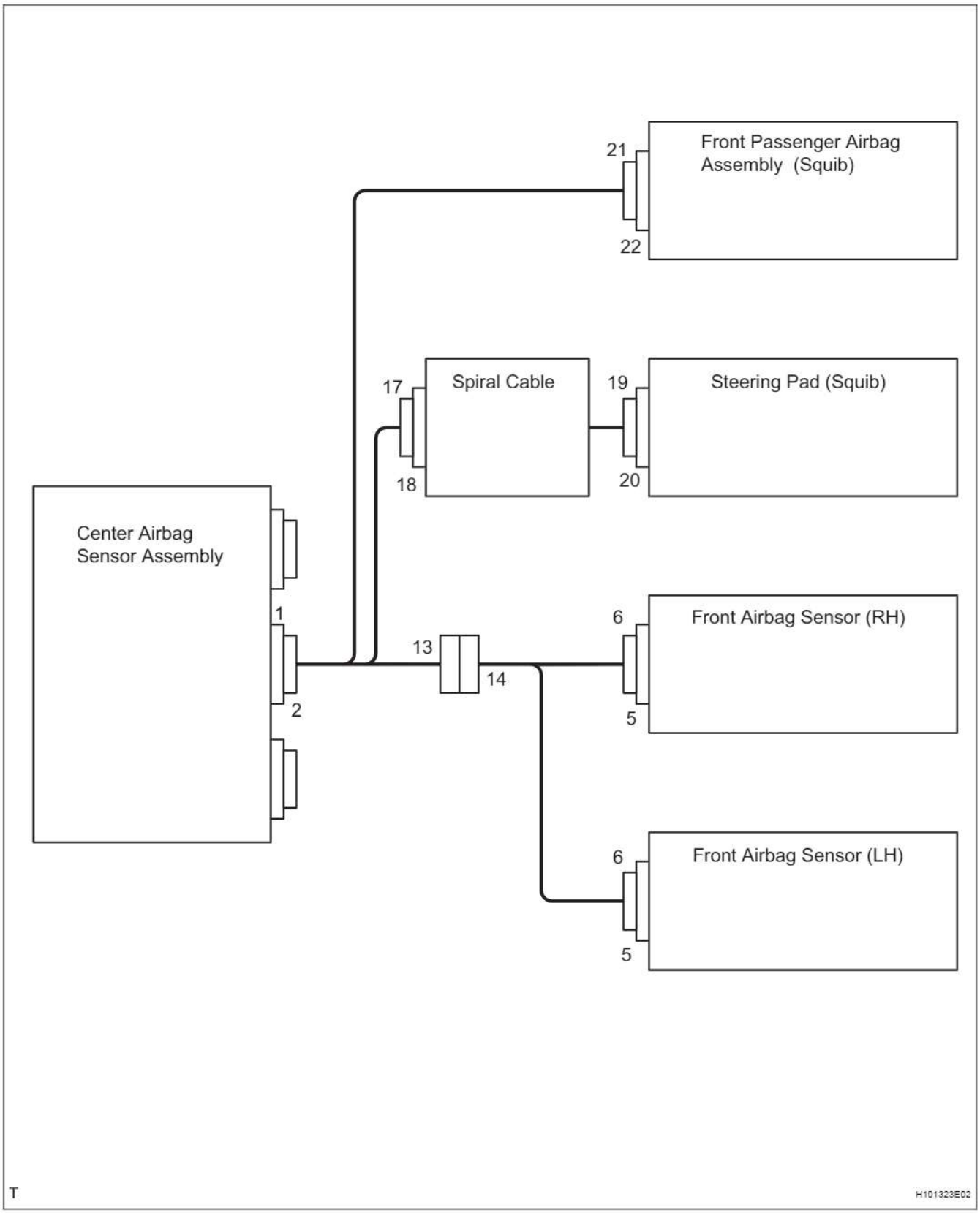
**Never release the activation prevention mechanism on the squib connector.**

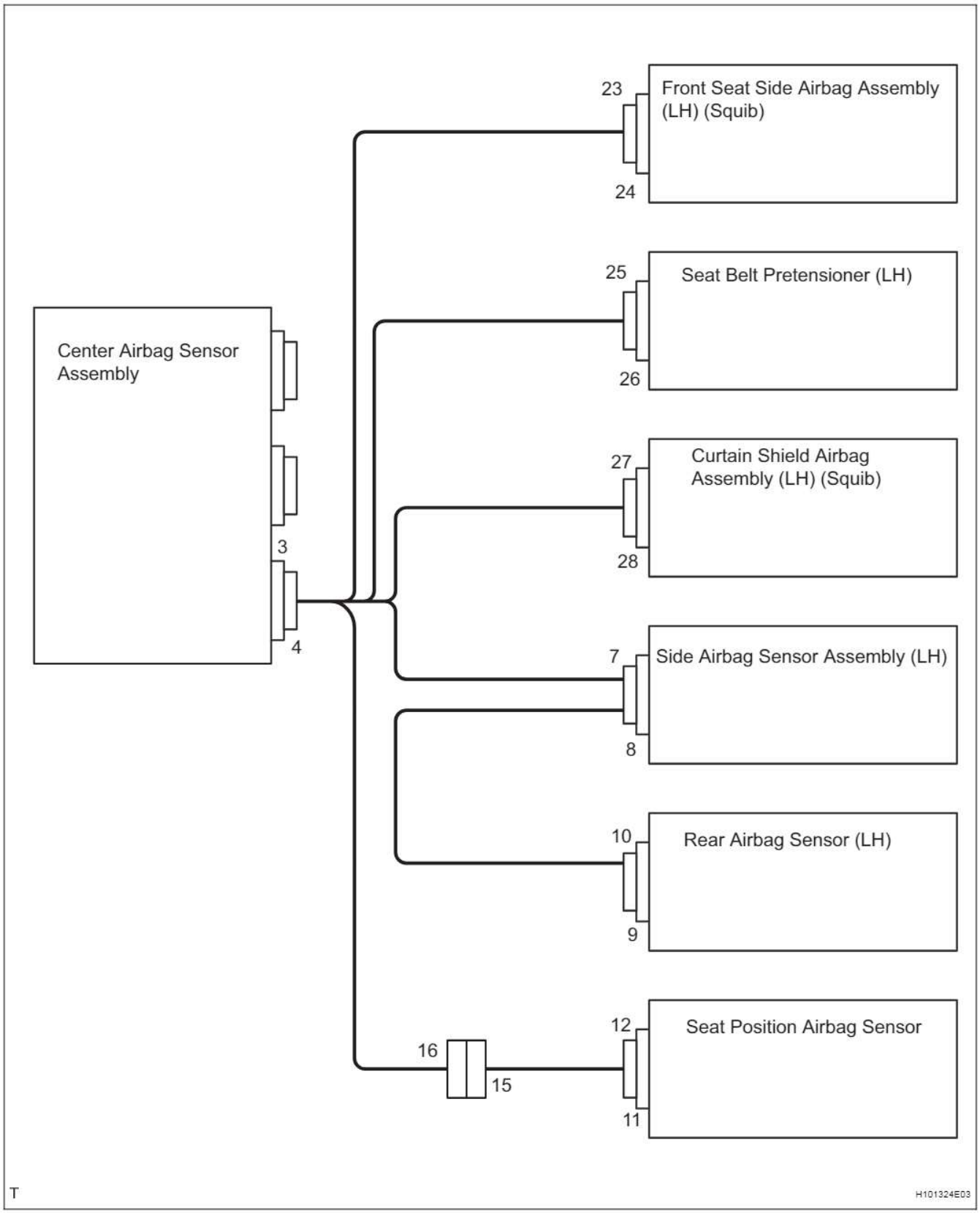
**NOTICE:**

- **Do not release the activation prevention mechanism unless specially directed by the troubleshooting procedure.**
- **To prevent the terminal and the short spring from becoming damaged, always use a piece of paper that is the same thickness as the male terminals.**


Rear Airbag Sensor (RH)
10
9
Side Airbag Sensor Assembly (RH)
8
7
Center Airbag Sensor Assembly
3
4
Curtain Shield Airbag Assembly (RH) (Squib)
27
28
Seat Belt Pretensioner (RH)
25
26
Front Seat Side Airbag Assembly (RH) (Squib)
23
24
T
H101322E03

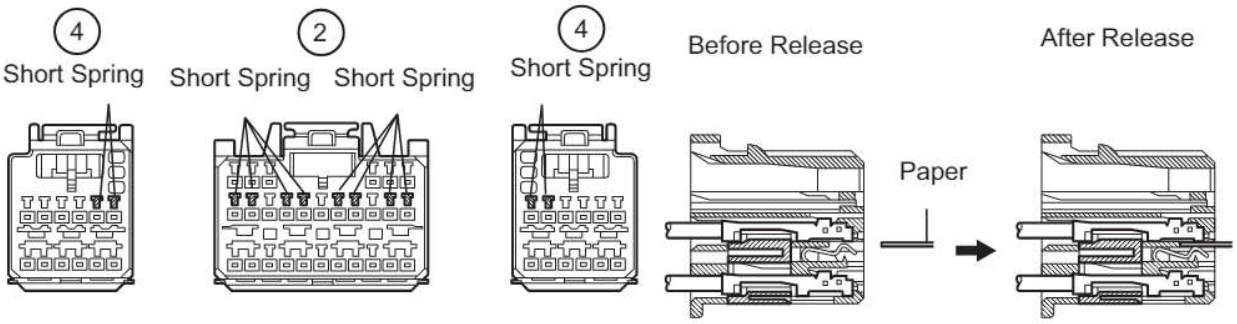
RS


Front Passenger Airbag Assembly (Squib)
21
22
Spiral Cable
17
18
Steering Pad (Squib)
19
20
Center Airbag Sensor Assembly
1
2
13
14
Front Airbag Sensor (RH)
6
5
Front Airbag Sensor (LH)
6
5
T
H101323E02

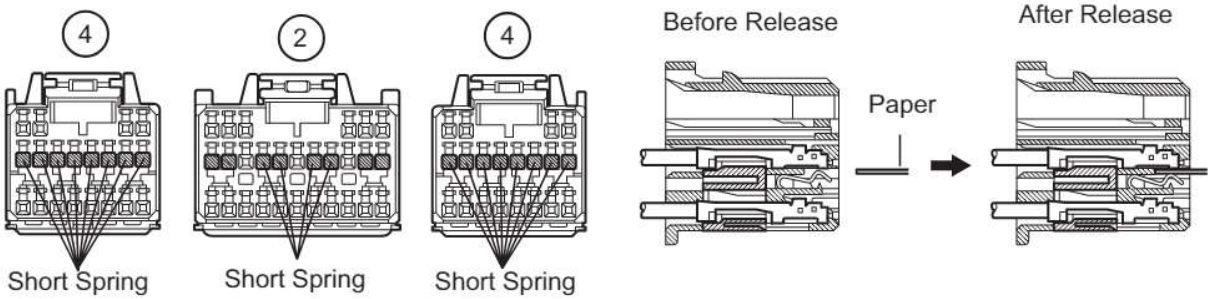

Center Airbag Sensor Assembly
3
4
23
24
Front Seat Side Airbag Assembly (LH) (Squib)
25
26
Seat Belt Pretensioner (LH)
27
28
Curtain Shield Airbag Assembly (LH) (Squib)
7
8
Side Airbag Sensor Assembly (LH)
10
9
Rear Airbag Sensor (LH)
16
15
12
11
Seat Position Airbag Sensor
T
H101324E03

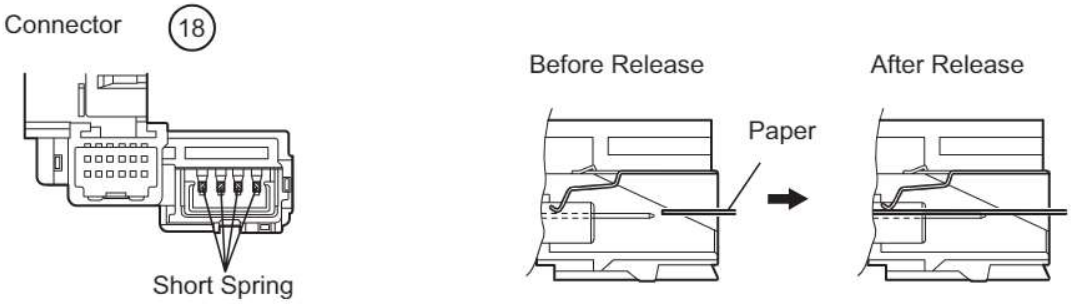
RS

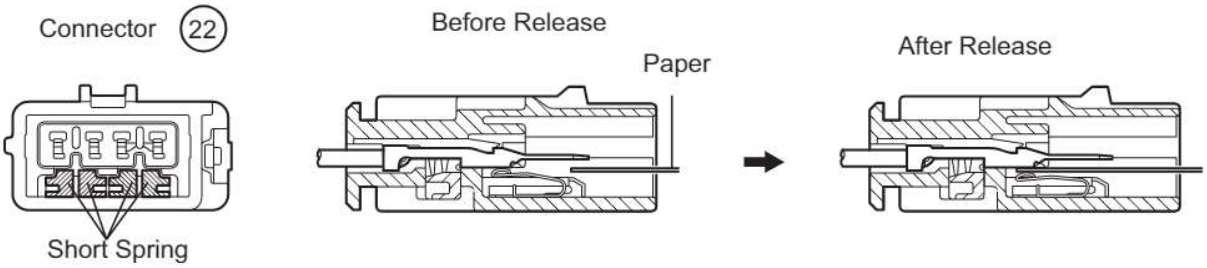
Center Airbag Sensor Assembly Connector (w/o Side Airbag)

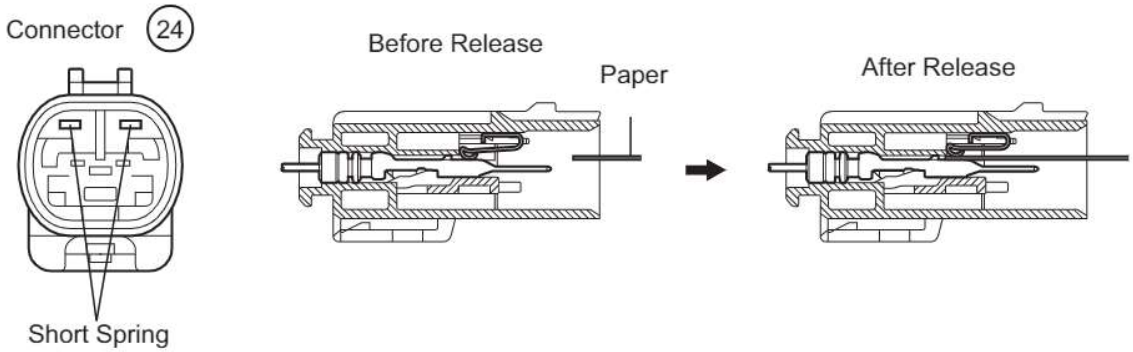



Center Airbag Sensor Assembly Connector (w/ Side Airbag)




T

H101318E02

# SYSTEM DESCRIPTION

## 1. SUPPLEMENTAL RESTRAINT SYSTEM

(a) In the Supplemental Restraint System, the center airbag sensor assembly installed on the floor under the A/C unit determines whether or not to deploy the SRS airbag, and activates the seat belt pretensioner by receiving the information signal of the collision impact from each sensor. The driver airbag and front passenger airbag deploy in the 2nd step. The center airbag sensor assembly controls the 2nd step deployment of the airbags around the driver's seat according to the collision impact force, seat position and seat belt ON / OFF. The center airbag sensor assembly controls the 2nd step of the airbags around the passenger seat according to the collision impact force, seat position and seat belt ON / OFF. When the system has trouble, the SRS warning light on the combination meter assembly comes on and blinks to inform the driver of the trouble.

# HOW TO PROCEED WITH TROUBLESHOOTING

HINT:
*: Use the intelligent tester.

RS

| 1 | VEHICLE BROUGHT TO WORKSHOP |
|---|---|

NEXT

| 2 | INSPECT BATTERY VOLTAGE |
|---|---|

**Standard voltage:**
**11 to 14 V**
If the voltage is below 11 V, recharge or replace the battery before proceeding.

NEXT

| 3 | WARNING LIGHT CHECK |
|---|---|

NEXT

| 4 | CHECK FOR DTC* |
|---|---|

(a) Check for DTCs and note any codes that are output (see page RS-30).
(b) Delete the DTCs.
(c) Recheck for DTCs. Based on the DTC output above, try to force output of the same SFI or airbag system DTC by simulating the symptoms indicated by the DTC.

**Result**

| Result | Proceed to |
|---|---|
| DTC does not reoccur | A |
| SFI system DTC reoccurs | B |
| Airbag system DTC reoccurs | C |

B → Go to SFI system

C → Go to step 7

A

| 5 | PROBLEM SYMPTOMS TABLE |
|---|---|

**Result**

| Result | Proceed to |
|---|---|
| Fault is not listed in problem symptoms table | A |
| Fault is listed in problem symptoms table | B |

B → Go to step 7

A

| 6 | OVERALL ANALYSIS AND TROUBLESHOOTING* |
|---|---|

(a) DATA LIST / ACTIVE TEST (see page RS-33).
(b) Terminals of ECU (see page RS-25).

NEXT

| 7 | ADJUST, REPAIR OR REPLACE |
|---|---|

NEXT

| 8 | CONFIRMATION TEST |
|---|---|

NEXT

END

| DTC | B0106/54 | Open in Front Passenger Side Squib Circuit |
|---|---|---|

## DESCRIPTION

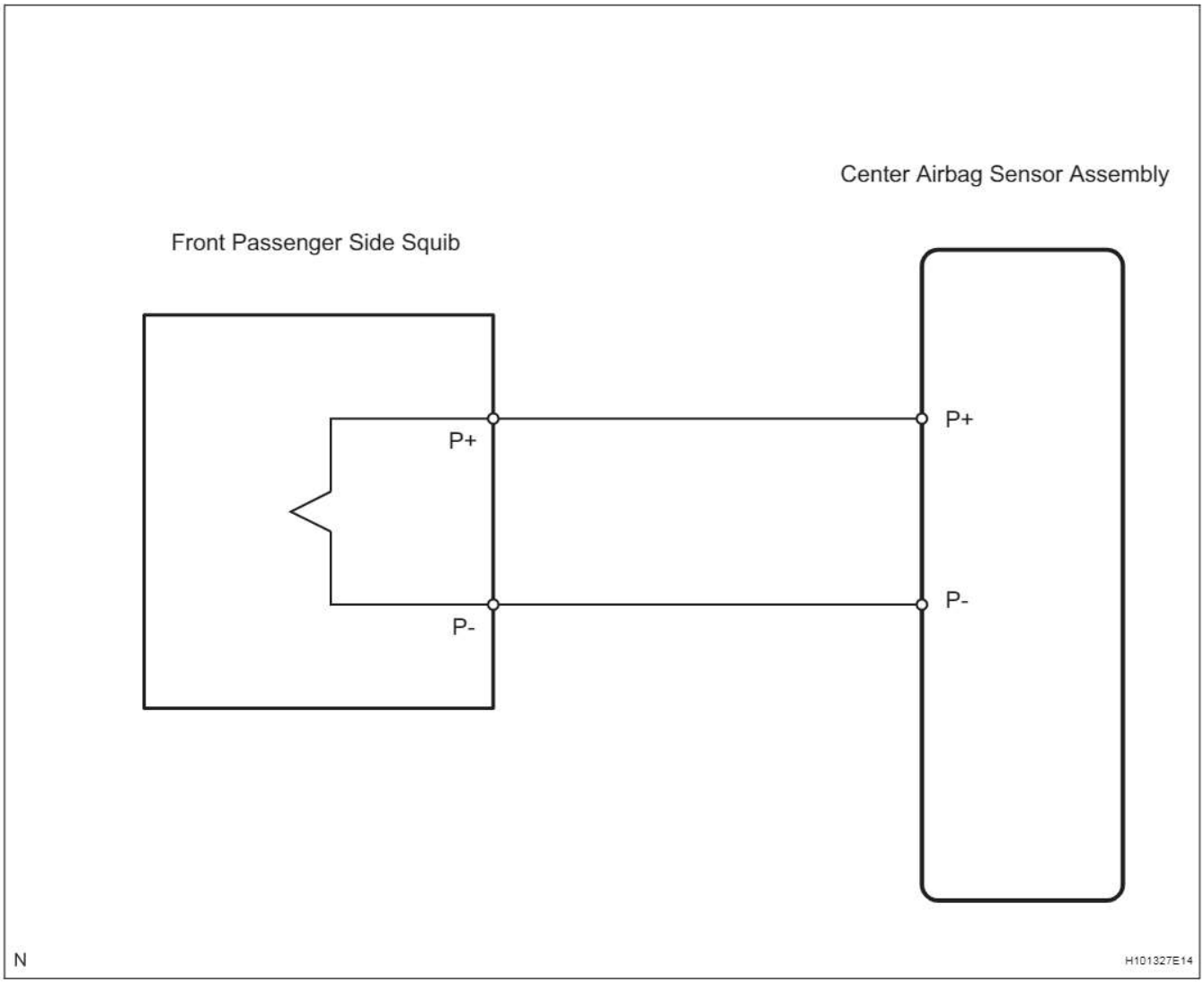
The front passenger side squib circuit consists of the center airbag sensor and the front passenger airbag. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

DTC B0106/54 is recorded when an open is detected in the front passenger side squib circuit.

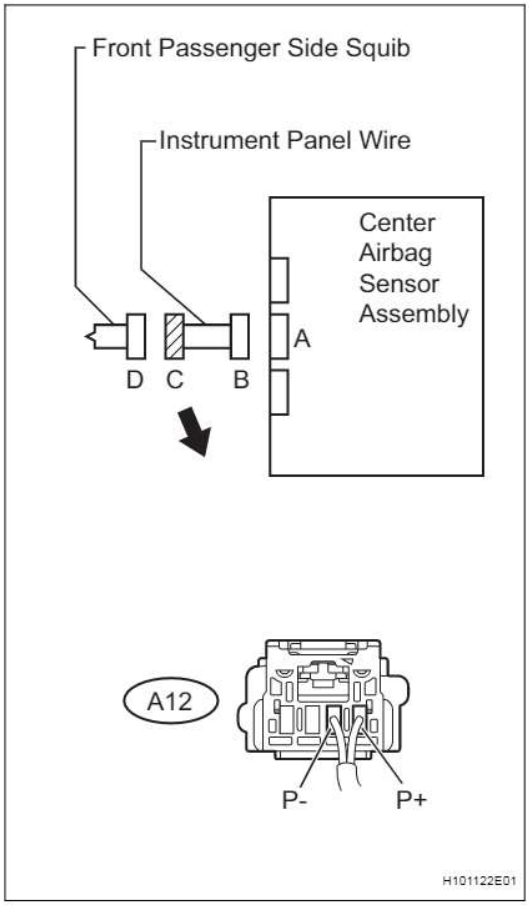
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0106/54 | • Open in front passenger side squib circuit (to B+)<br>• Front passenger side squib malfunction<br>• Center airbag sensor malfunction | • Front passenger airbag assembly (front passenger side squib)<br>• Center airbag sensor assembly<br>• Instrument panel wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front passenger airbag.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

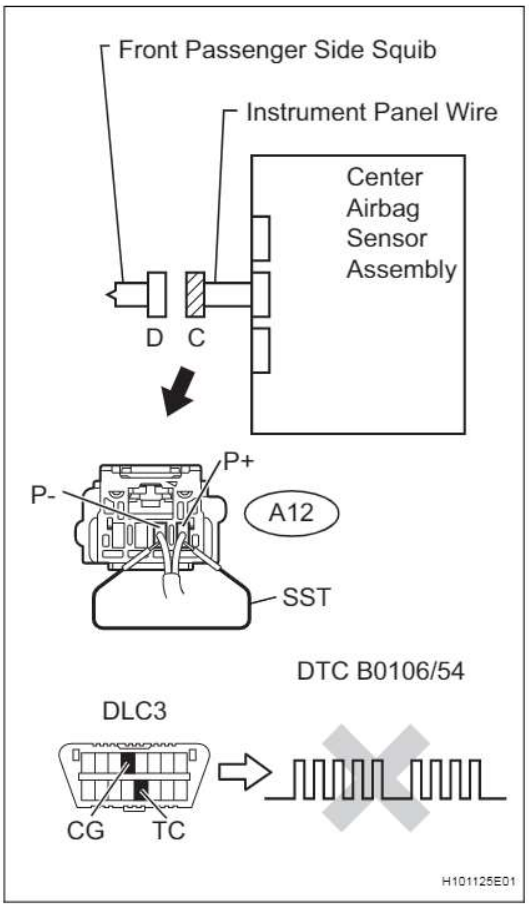
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A12-1 (P+) - A12-2 (P-) | Below 1 Ω |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Using SST, connect terminal P+ and P- of connector "C".
**SST 09843-18040**

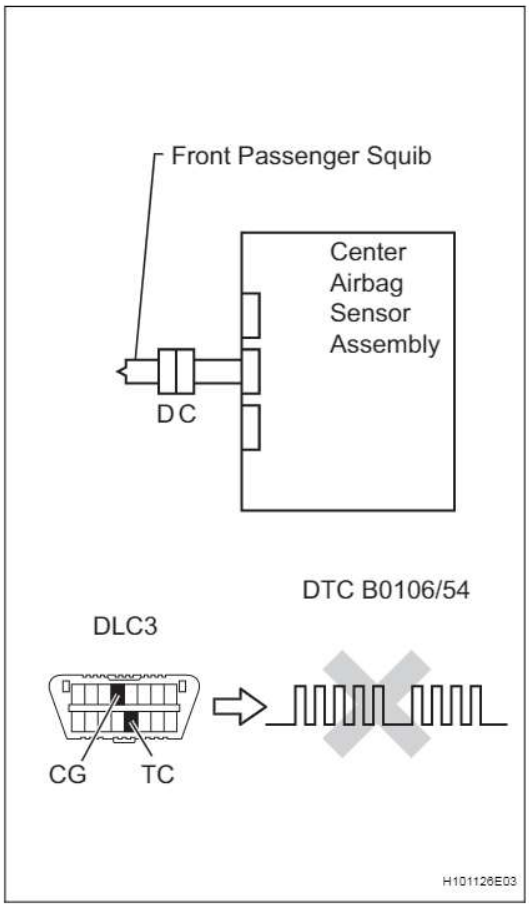
**NOTICE:**
**Do not forcibly insert SST into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0106/54 is not output.**
HINT:
Codes other than code B0106/54 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the SST from the connector "C".
(d) Connect the connector to the front passenger airbag.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0106/54 is not output.**

HINT:

Codes other than code B0106/54 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

| DTC | B0107/51 | Short to GND in Front Passenger Side Squib Circuit |
|---|---|---|

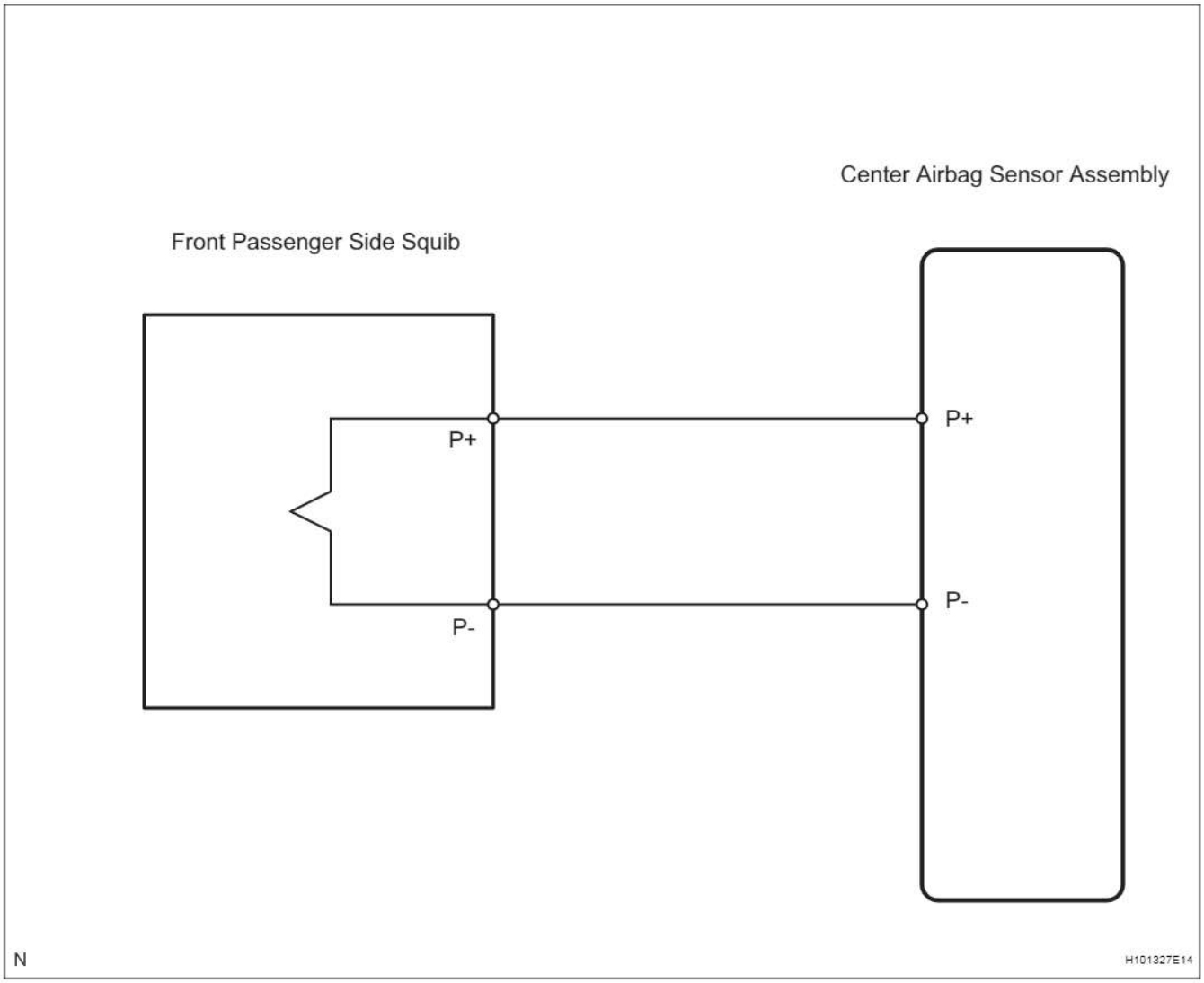
## DESCRIPTION

RS

The front passenger side squib circuit consists of the center airbag sensor and the front passenger airbag. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0107/51 is recorded when a ground short is detected in the front passenger side squib circuit.

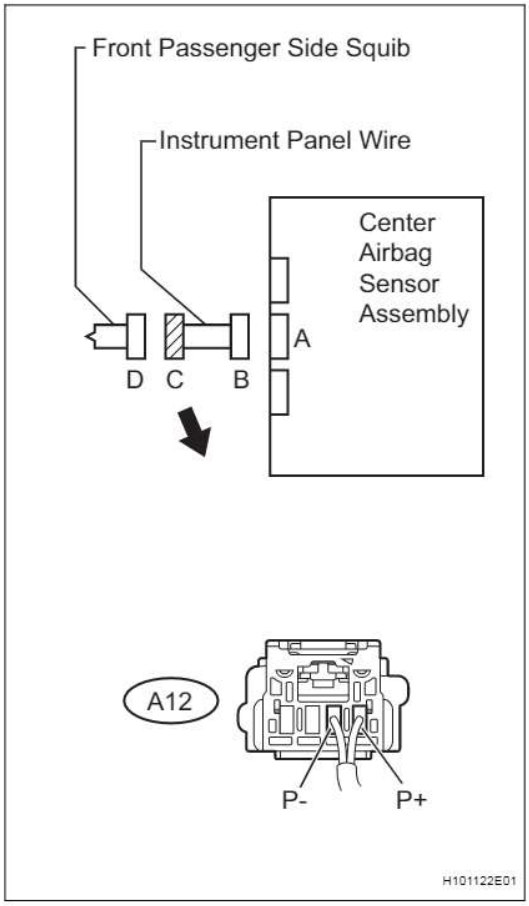
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0107/51 | • Short in front passenger side squib circuit (to ground)<br>• Front passenger side squib malfunction<br>• Center airbag sensor malfunction | • Front passenger airbag assembly (front passenger side squib)<br>• Center airbag sensor assembly<br>• Instrument panel wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front passenger airbag.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

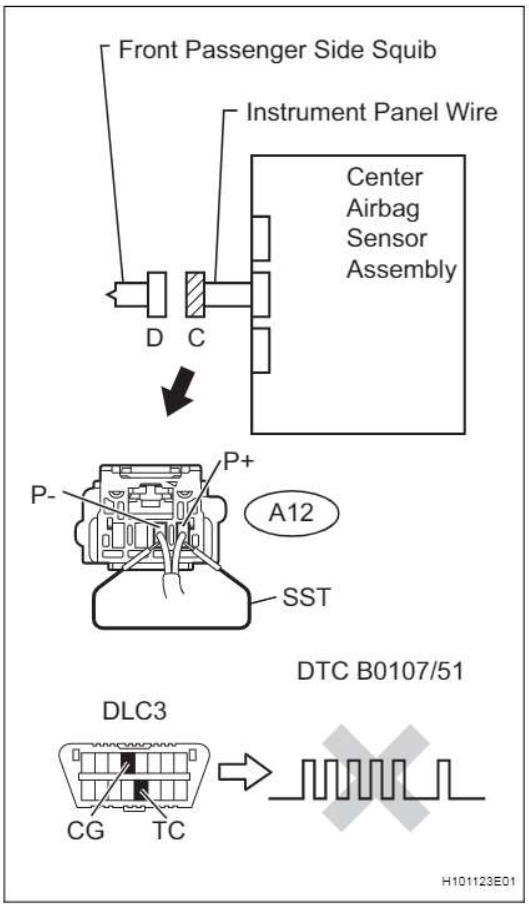
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A12-1 (P+) - Body ground | 1 MΩ or higher |
| A12-2 (P-) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Using SST, connect terminals P+ and P- of connector "C".

**SST 09843-18040**

**NOTICE:**

**Do not forcibly insert SST into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).

**OK:**

**DTC B0107/51 is not output.**

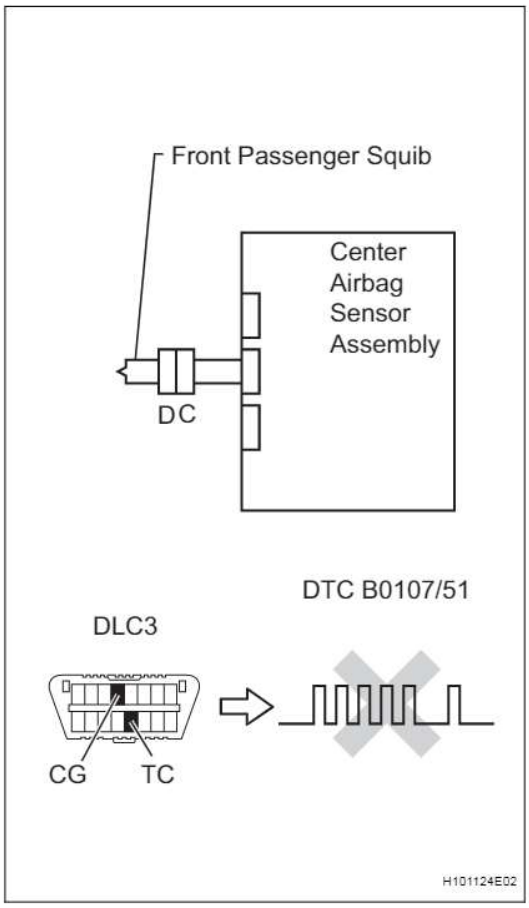
HINT:

Codes other than code B0107/51 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

OK

| 3 | CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the SST from the connector "C".
(d) Connect the connector to the instrument panel passenger airbag.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 10 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0107/51 is not output.**

HINT:

Codes other than code B0107/51 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

# AIRBAG SYSTEM

## PRECAUTION

CAUTION:

- The vehicle is equipped with a Supplemental Restraint System (SRS), which consists of a steering pad, front passenger airbag, curtain shield airbag, front seat side airbag, seat belt pretensioner, center airbag sensor, front airbag sensor, side airbag sensor, rear airbag sensor and seat position airbag sensor. Failure to carry out service procedures in the correct sequence could cause SRS parts to unexpectedly deploy and possibly lead to serious injuries. Furthermore, if a mistake is made when service SRS parts, they may fail to operate when required. Before performing servicing (including installation/removal, inspection and replacement of parts), be sure to read the following precautions.
- Before starting work, wait at least 90 seconds after the ignition switch is turned OFF and after the cable of the negative (-) battery terminal is disconnected. (SRS parts are equipped with a backup power source. If work is started within 90 seconds of turning the ignition switch OFF and disconnecting the cable from the negative (-) battery terminal, SRS parts may deploy.)
- Do not expose SRS parts directly to hot air or flames.

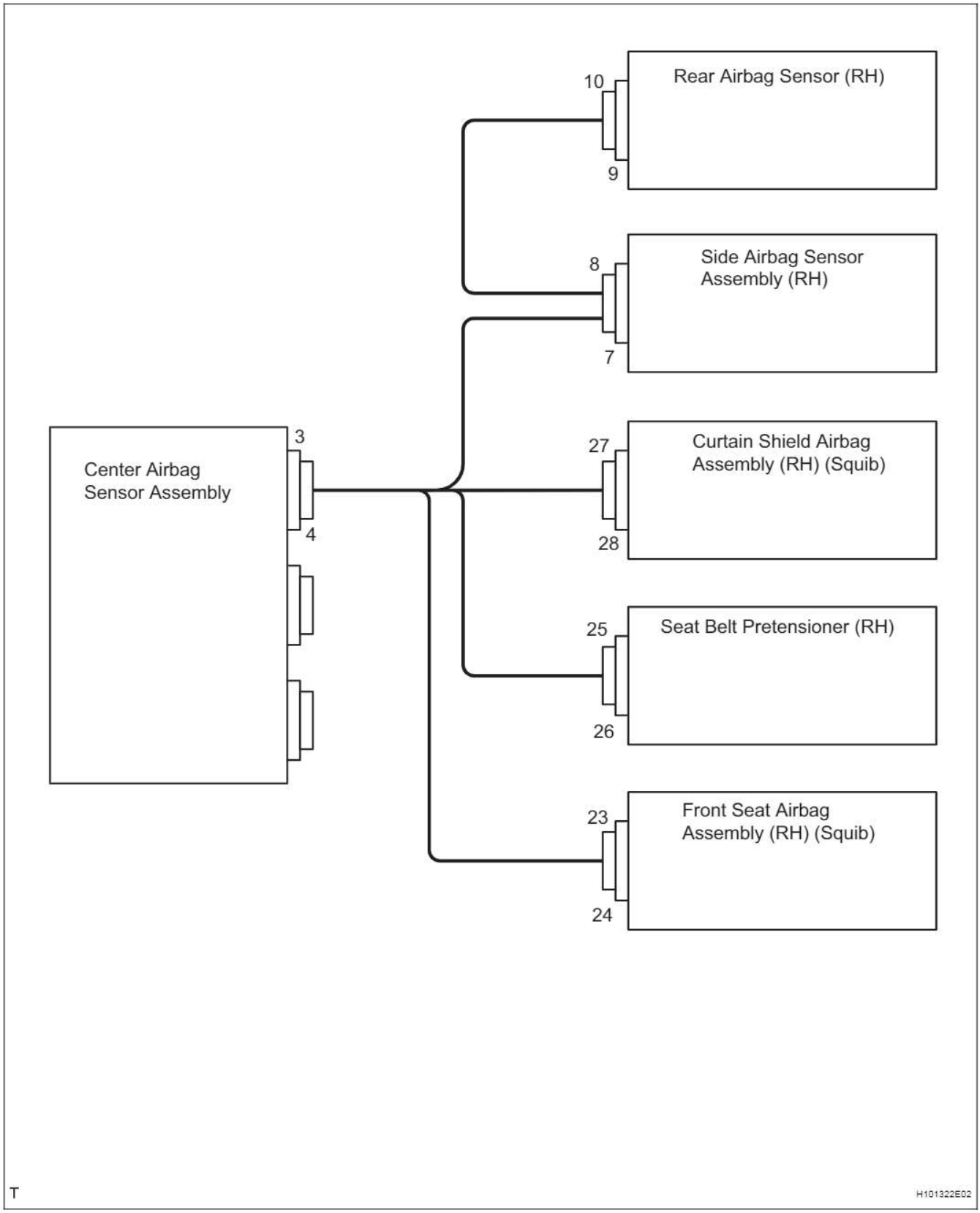
NOTICE:

- Malfunction symptoms of SRS parts are difficult to confirm. DTCs are the most important source of information when troubleshooting. During troubleshooting, always confirm DTCs before disconnecting the cable from the negative (-) battery terminal.
- For minor collisions where SRS parts do not deploy, always inspect the SRS parts.
- Before repair work, remove airbag sensors as necessary if any kind of impact is likely to occur to an airbag sensor during the operation.
- Never use SRS parts from another vehicle. When replacing SRS parts, replace them with new ones.
- Never disassemble or attempt to repair SRS parts.
- If an SRS part has been dropped, or if there are any cracks, dents or other defects in the case, bracket or connector, replace the SRS part with a new one.
- Use an ohmmeter/voltmeter with high impedance (10 kΩ/V minimum) for troubleshooting the electrical circuits.
- Information labels are attached to the periphery of SRS parts. Follow the cautions and instructions on the labels.
- After work on SRS parts is completed, perform the SRS warning light check (see page RS-28).

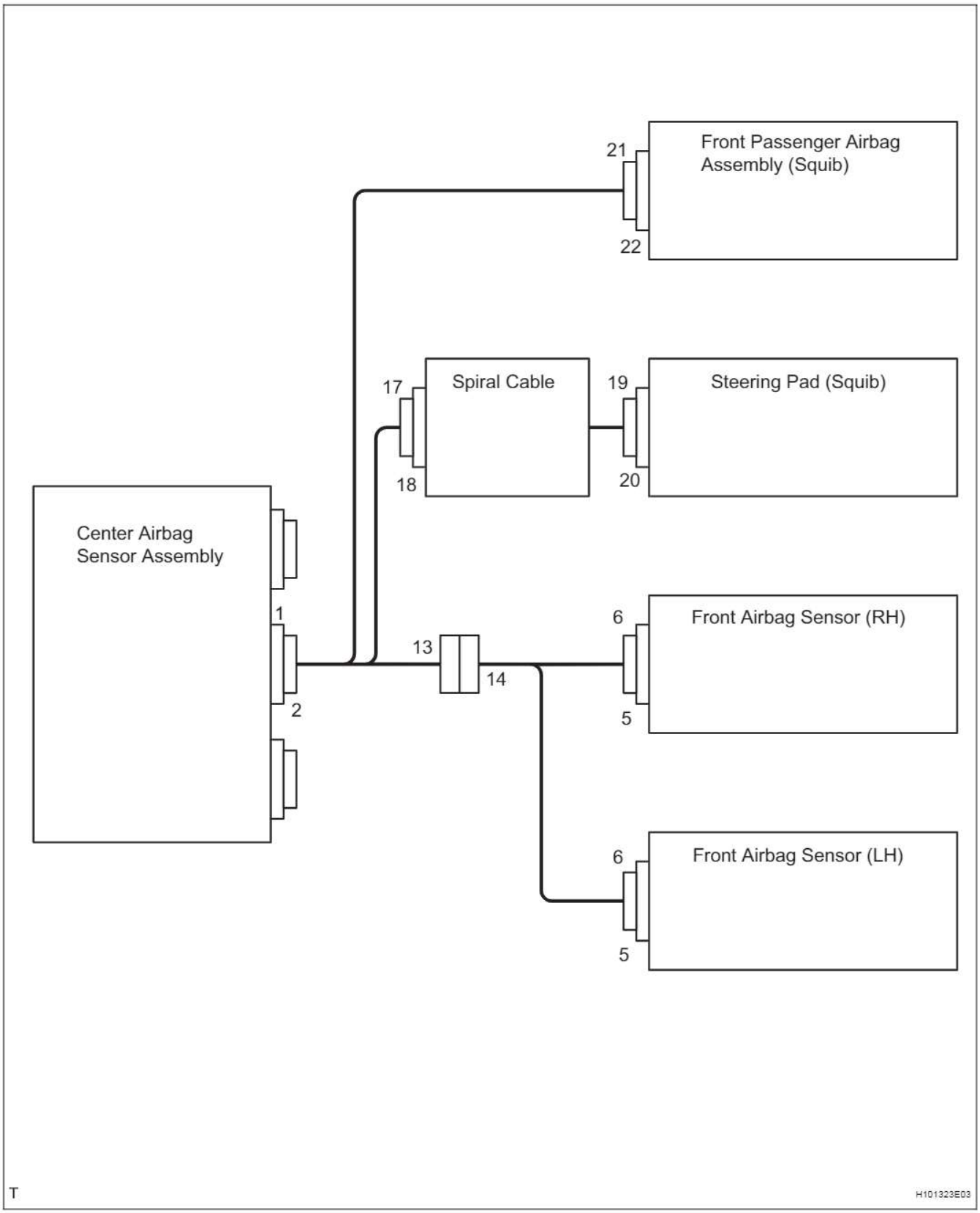
- When the cable is disconnected from the negative (-) battery terminal, the memory settings of each system will be cleared. Because of this, be sure to write down the settings of each system before starting work. When work is finished, reset the settings of each system as before. Never use a backup power supply from outside the vehicle to avoid erasing the memory in a system.
- If the vehicle is equipped with a mobile communication system, refer to the precautions in the INTRODUCTION section (see page IN-1).
- When disconnecting the cable from the negative (-) battery terminal, initialize the following system(s) after the cable is reconnected.

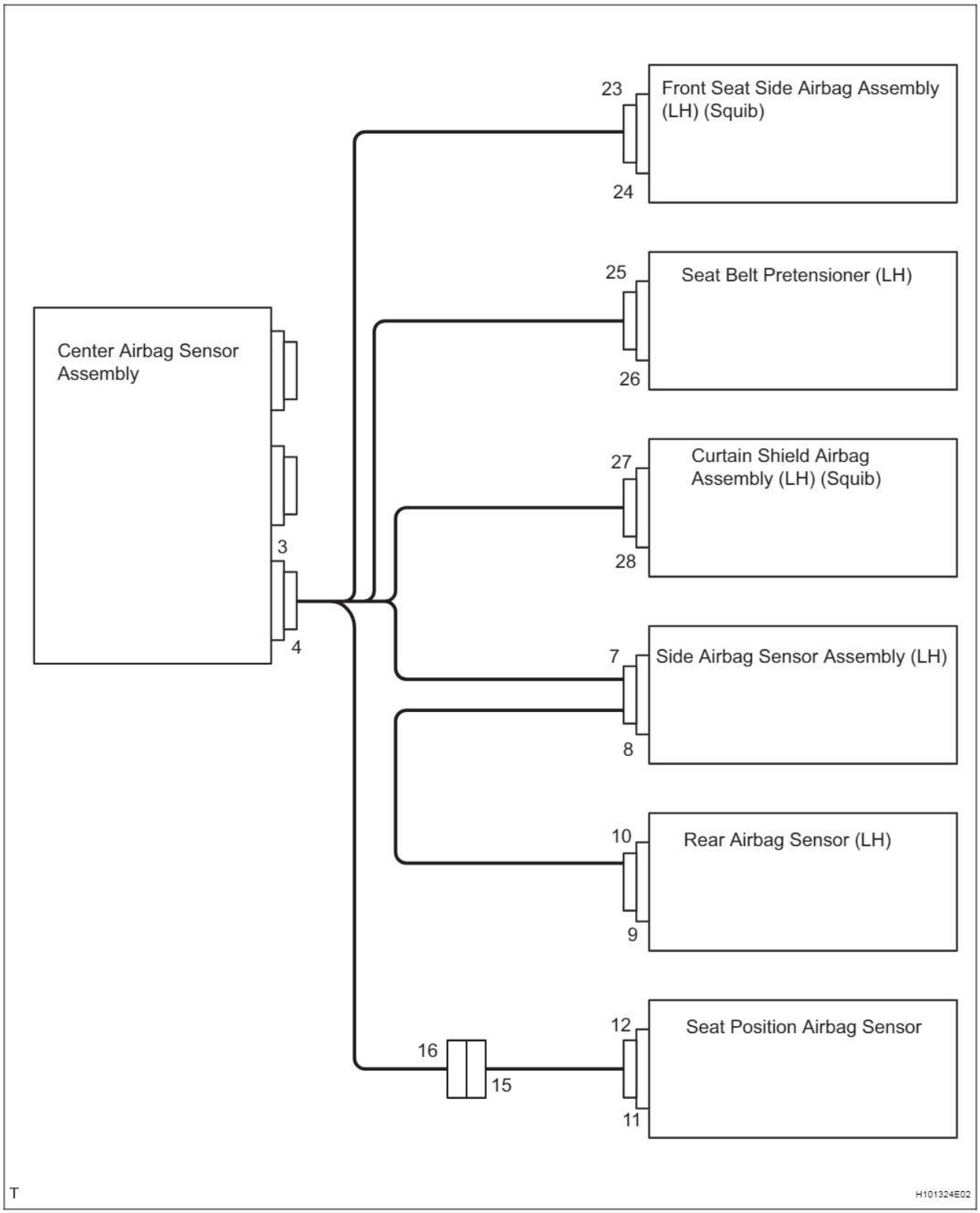
| System Name | See Procedure |
|---|---|
| Sliding Roof System | IN-23 |

## 1. SRS CONNECTORS



RS

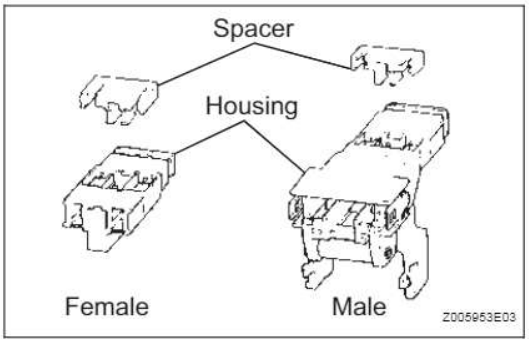

Front Passenger Airbag Assembly (Squib)
21
22
Spiral Cable
17
18
Steering Pad (Squib)
19
20
Center Airbag Sensor Assembly
1
2
13
14
Front Airbag Sensor (RH)
6
5
Front Airbag Sensor (LH)
6
5
T
H101323E03




| Item | Application |
|---|---|
| Terminal Twin-lock Mechanism | Connectors 2, 4, 6, 8, 10, 12, 13, 14, 15, 16, 17, 21, 23, 24 |
| Activation Prevention Mechanism | Connectors 2, 4, 18, 20, 22, 24, 26, 28 |
| Electrical Connection Check Mechanism | Connectors 1, 2, 3, 4 |

| Item | Application |
|---|---|
| Half Connection Prevention Mechanism | Connectors 8, 10, 14, 17, 21 |
| Connector Lock Mechanism | Connectors 19, 25, 27 |
| Connector Position Assurance Mechanism | Connector 6 |

RS



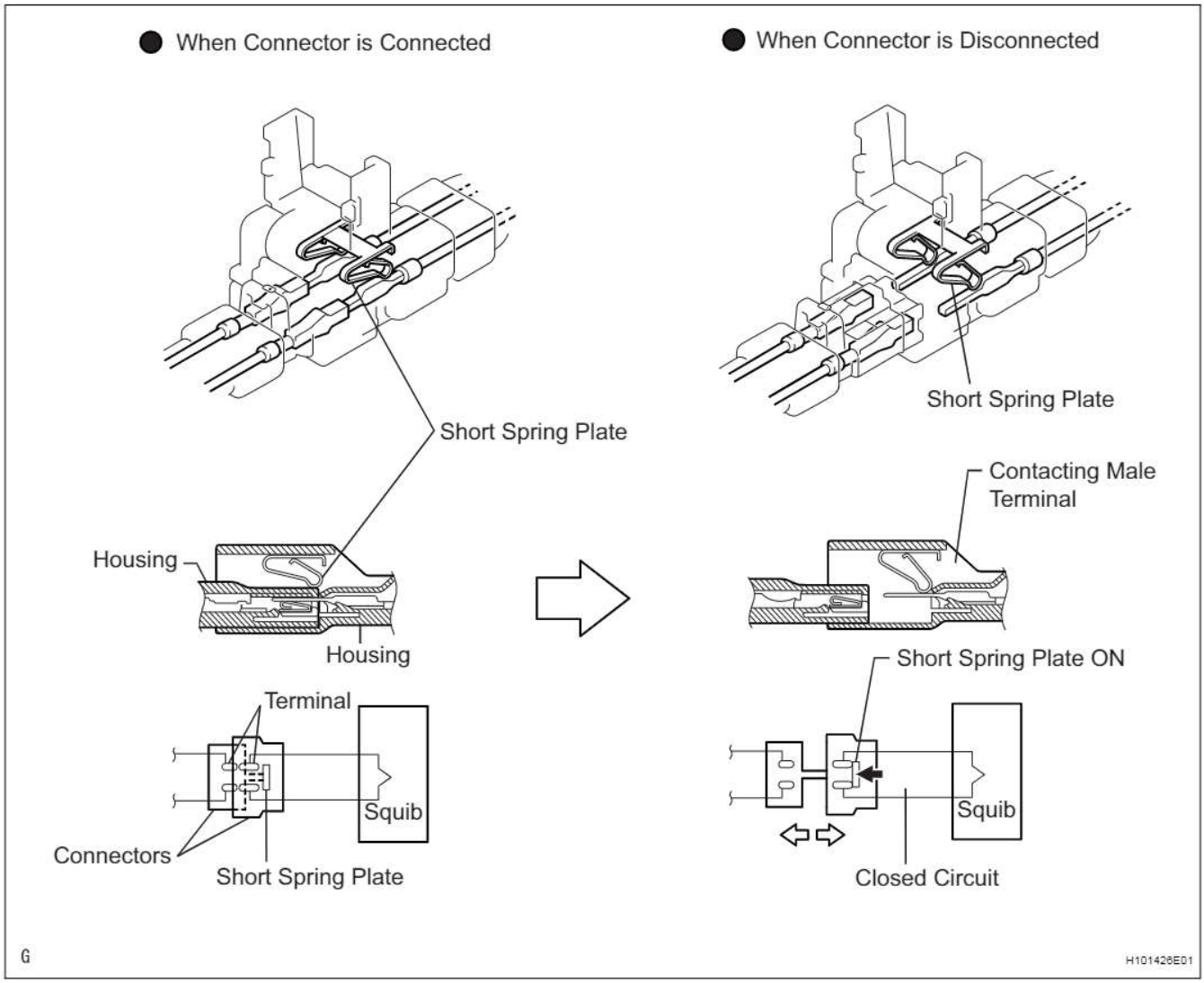

(a) All connectors in the SRS are yellow (to distinguish them from other connectors). Some connectors have special functions and are specially designed for the SRS. These connectors use durable gold-plated terminals, and are located as shown above to ensure high reliability.

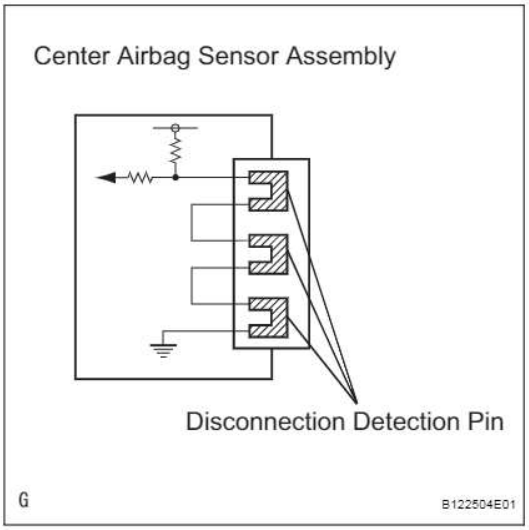
(1) Terminal twin-lock mechanism:

Each connector has a two-piece component consisting of a housing and spacer. This design enables the terminal to be locked securely by 2 locking devices (the retainer and lance) to prevent terminals from becoming unseated.

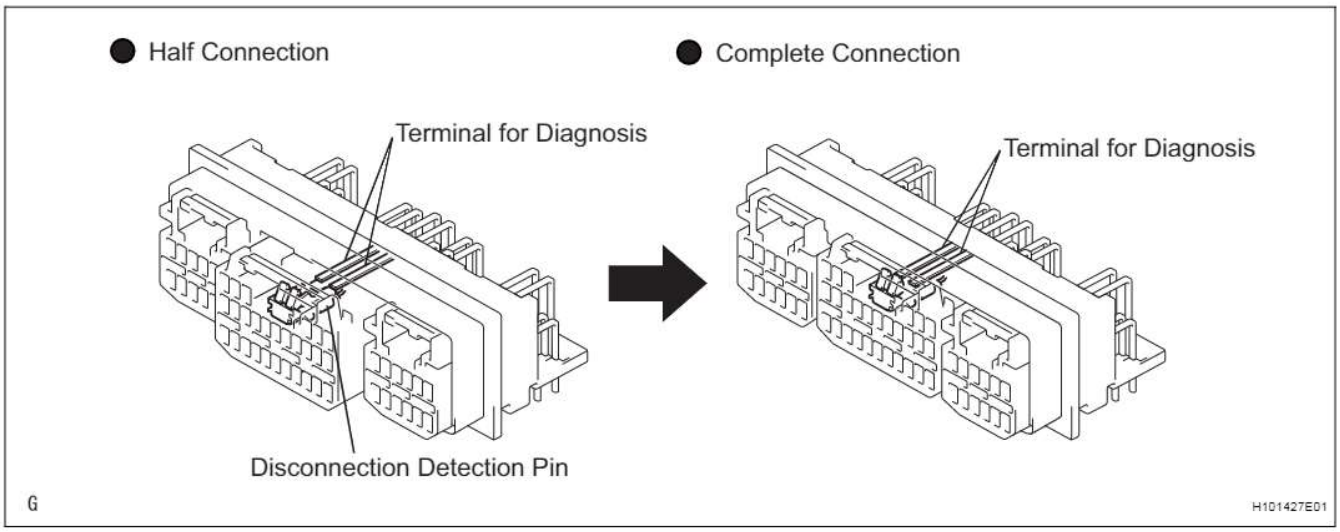
(2) Activation prevention mechanism:
Each connector contains a short spring plate. When the connector is disconnected, the short spring plate automatically connects the positive (+) terminal and negative (-) terminal of the squib.



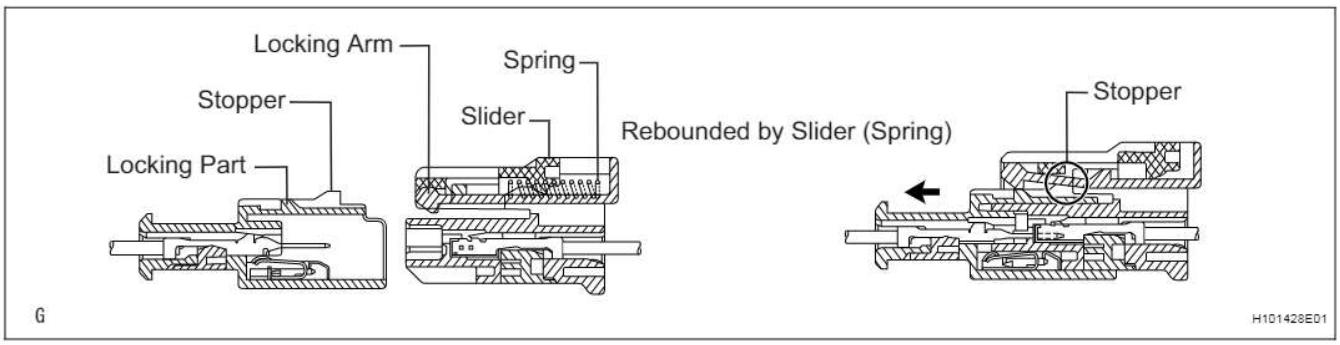




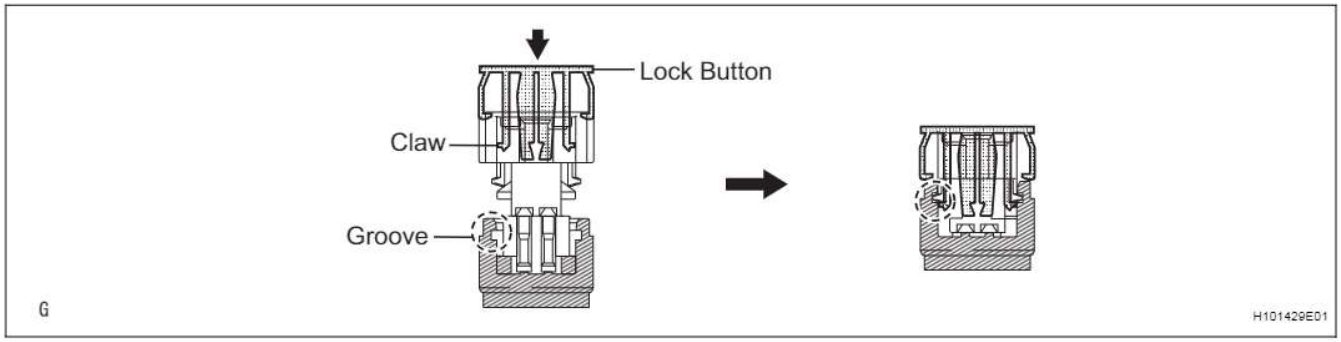

(3) Electrical connection check mechanism:
This mechanism electrically checks that the connectors are connected correctly and completely. The electrical connection check mechanism is designed so that the disconnection detection pin connects with the diagnosis terminals when the connector housing lock is locked.



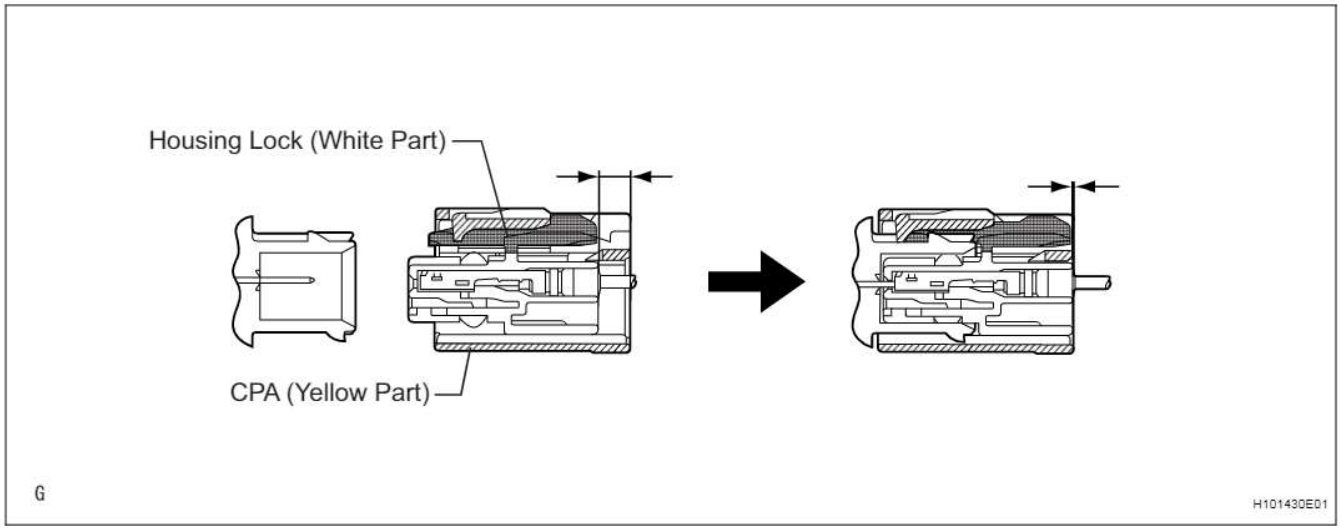

(4) Half connection prevention mechanism:
If the connector is not completely connected, the connector is disconnected by the spring.



(5) Connector lock mechanism:
Locking the connector lock button connects the connector securely.

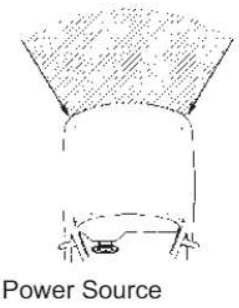



(6) Connector position assurance mechanism:
Only when the housing lock (white part) is completely engaged, the CPA (yellow part) slides, which completes the connector engagement.



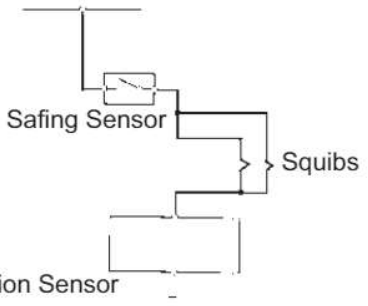
RS

Fig.1



Power Source

Fig.2




(b) When the vehicle is involved in a frontal collision in the hatched area (Fig. 1) and the shock is larger than the predetermined level, the SRS is activated automatically. The safing sensor is designed to go on at a smaller deceleration rate than the airbag sensor. As illustrated in Fig. 2, ignition is caused when current flows to the squib, which happens when the safing sensor and the deceleration sensor go on simultaneously. When a deceleration force acts on the sensors, 2 squibs in the driver airbag and front passenger airbag ignite and generate gas. The gas discharging into the driver airbag and front passenger airbag rapidly increases the pressure inside the bags, breaking the steering pad assembly and instrument panel. The deployment of the bags then end, and the bags deflate as the gas is discharged through discharge holes at the bag's rear or side.

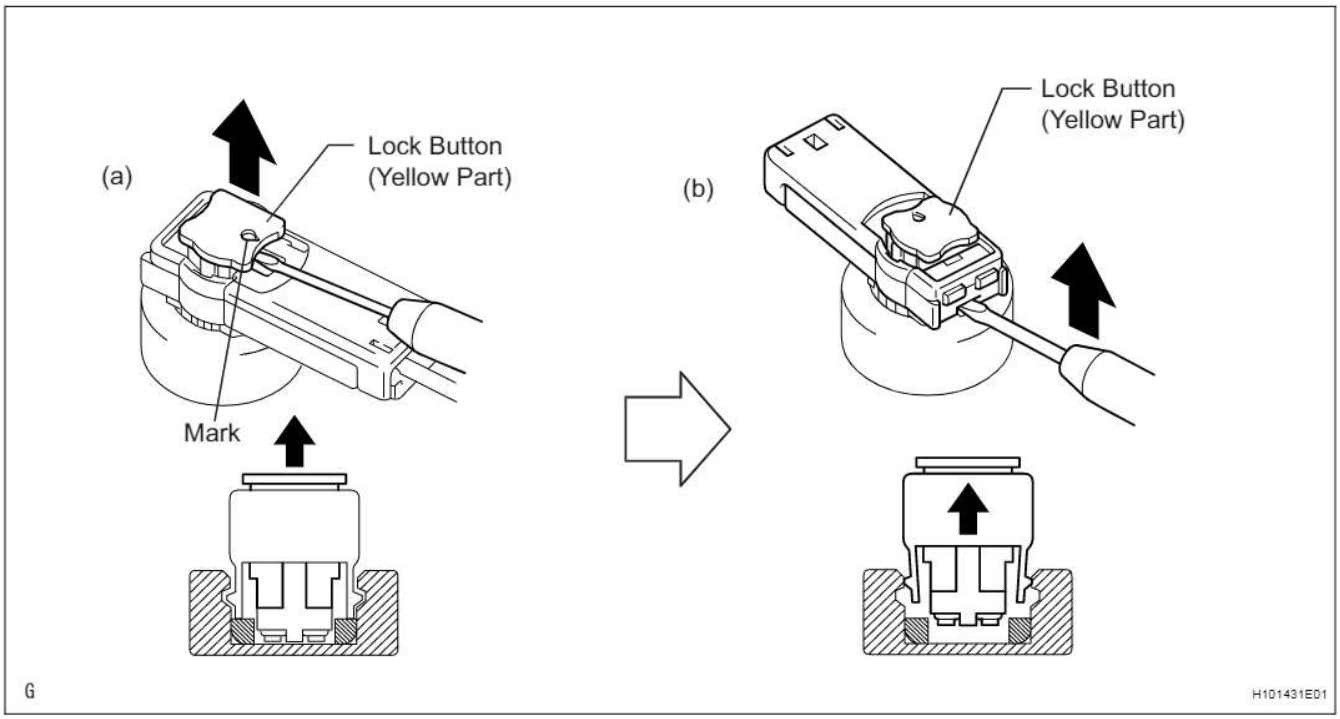
**2. DISCONNECTION OF CONNECTOR FOR STEERING PAD ASSEMBLY AND CURTAIN SHIELD AIRBAG ASSEMBLY**

HINT:

Tape the screwdriver tip before use.

(a) Release the lock button (yellow part) of the connector using a screwdriver.

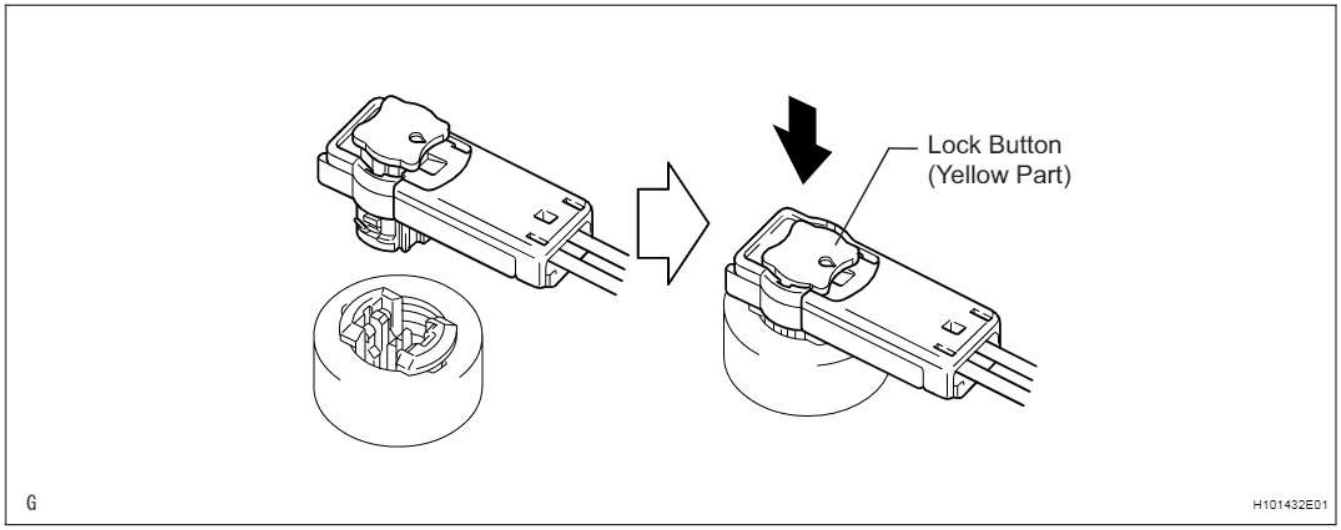
(b) Insert the screwdriver tip between the connector and base, and then raise the connector.




**3. CONNECTION OF CONNECTOR FOR STEERING PAD ASSEMBLY AND CURTAIN SHIELD AIRBAG ASSEMBLY**

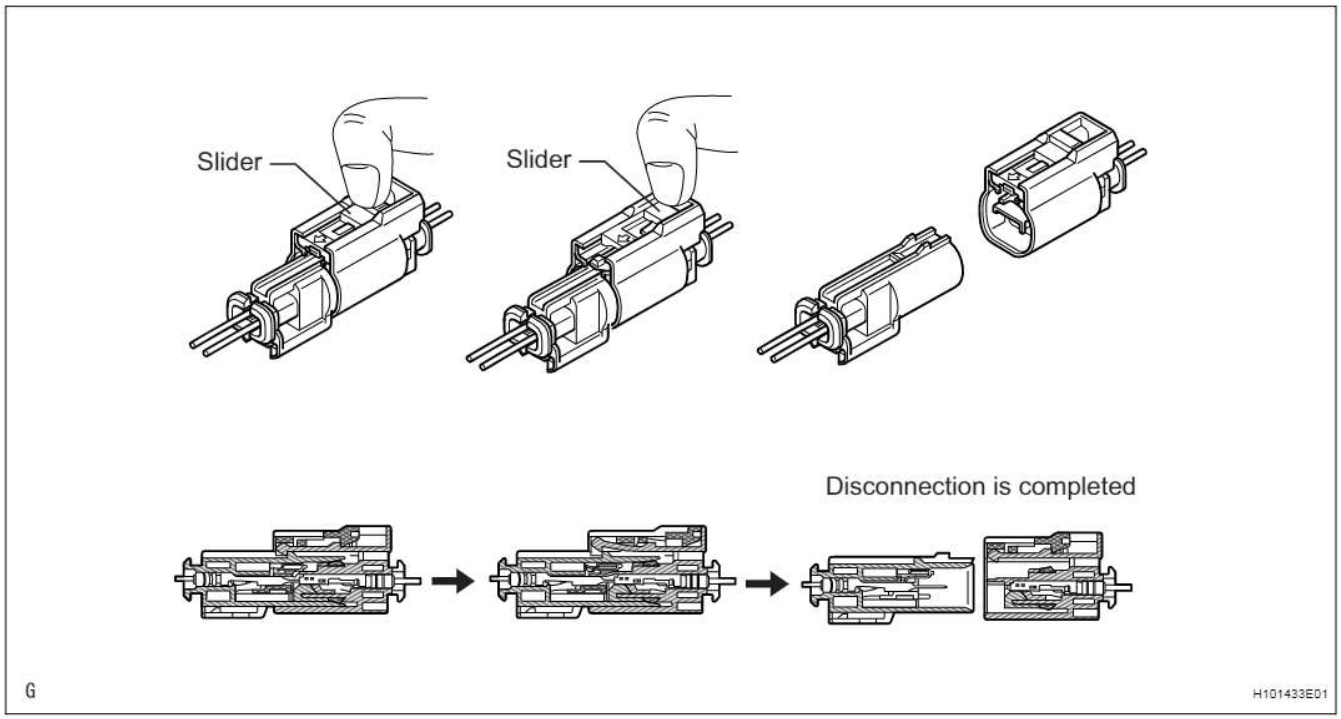
(a) Connect the connector.

(b) Push the lock button in to connect the holder (with connectors). Check that it locks and that a "click" sound is heard.




**4. DISCONNECTION OF CONNECTOR FOR FRONT SEAT SIDE AIRBAG ASSEMBLY**

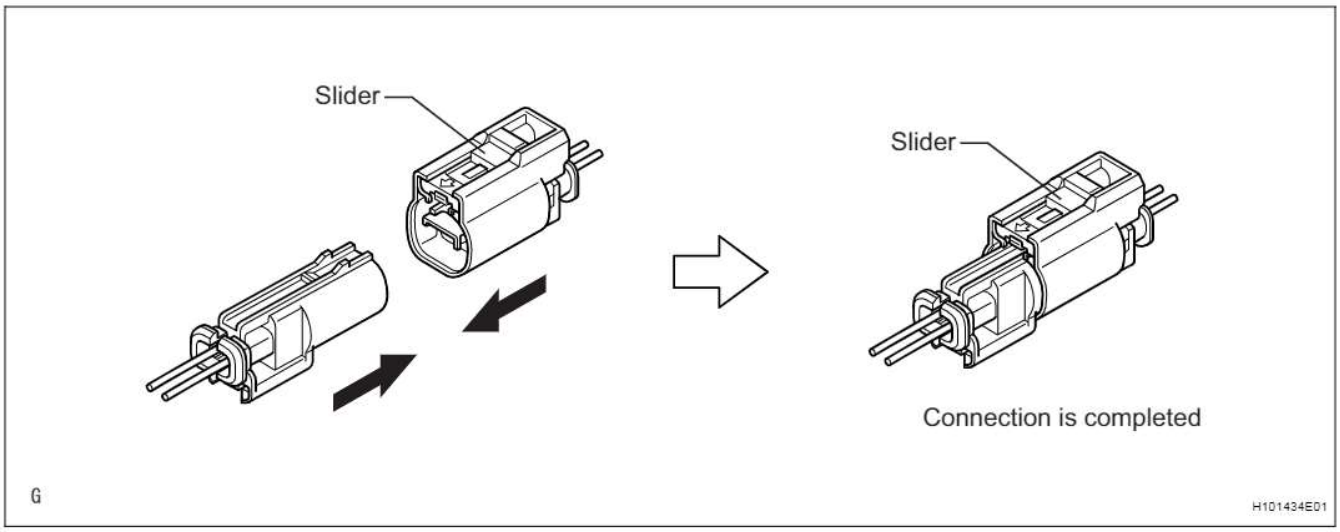
(a) Place a finger on the slider.
(b) Slide the slider to release the lock.
(c) Disconnect the connector.

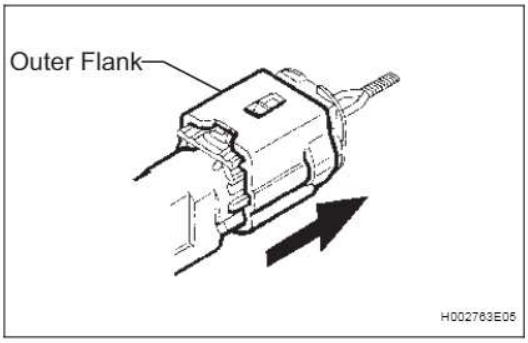



**5. CONNECTION OF CONNECTOR FOR FRONT SEAT SIDE AIRBAG ASSEMBLY**

(a) Connect the connector as shown in the illustration. Check that it locks and that a "click" sound is heard.
HINT:
Do not touch the slider while it is moving.

RS

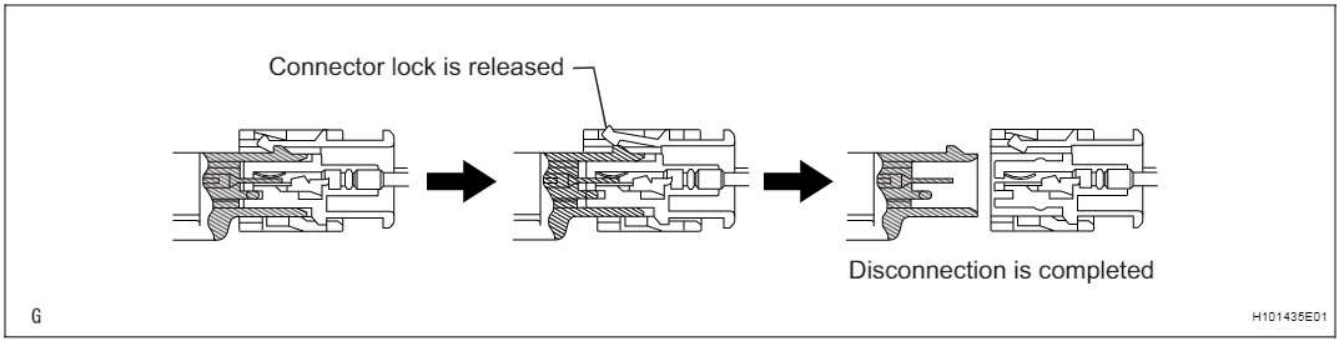



**6. DISCONNECTION OF CONNECTOR FOR SIDE AIRBAG SENSOR AND REAR AIRBAG SENSOR**

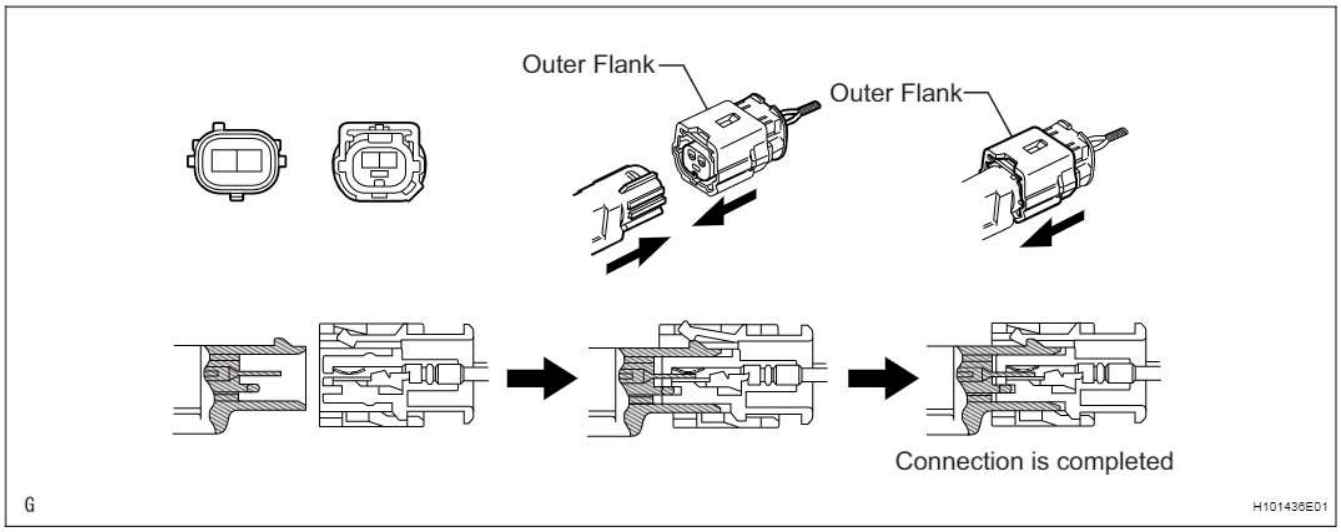
(a) Hold the sides of the outer flank and slide it as shown in the illustration to release the connector lock.

(b) Disconnect the connector.
HINT:
Be sure to hold the sides of the outer flank. Holding the top and bottom will make disconnection difficult.




**7. CONNECTION OF CONNECTOR FOR SIDE AIRBAG SENSOR AND REAR AIRBAG SENSOR**

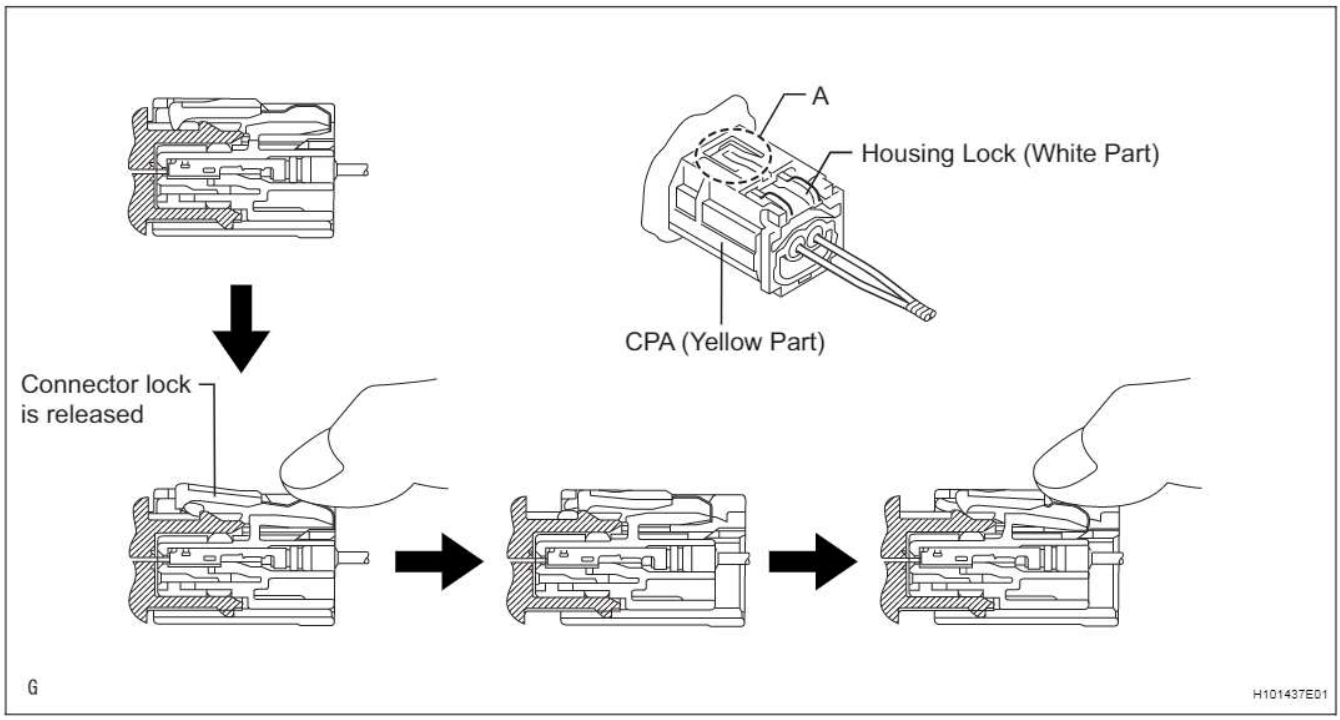
(a) Connect the connector as shown in the illustration. Check that it locks and that a "click" sound is heard.
HINT:
Do not hold the outer flank while it is moving.



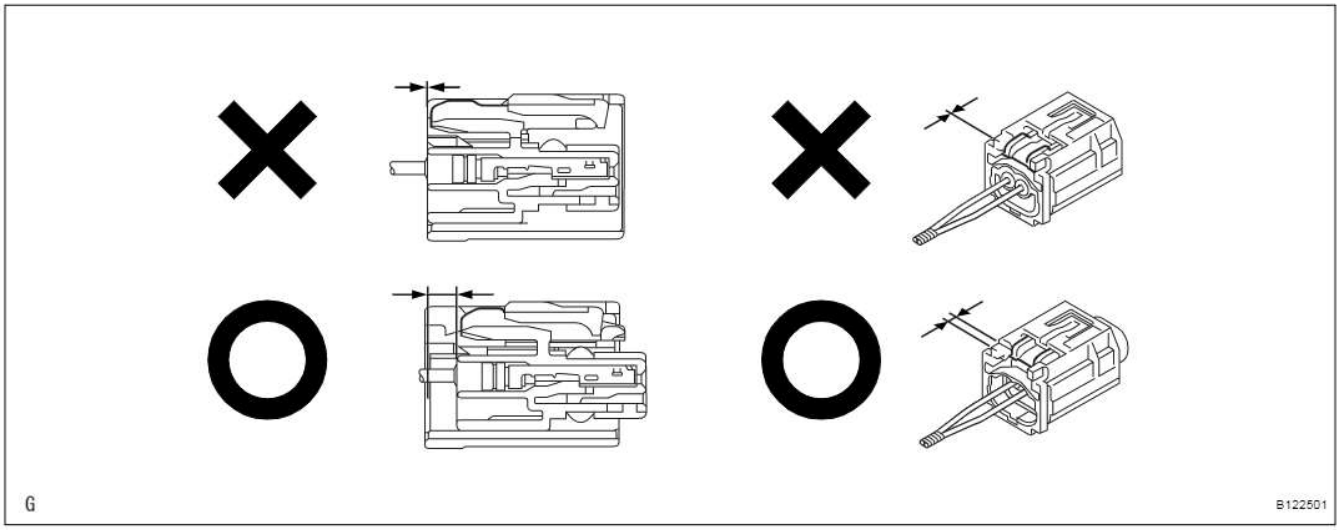

**8. DISCONNECTION OF CONNECTOR FOR FRONT AIRBAG SENSOR**

(a) Push down the housing lock (white part) and slide the CPA (yellow part). (At this time, the connector cannot be disconnected yet.)

(b) Push down the housing lock (white part) again and disconnect the connector.
HINT:
Do not push down the A part shown in the illustration when disconnecting.

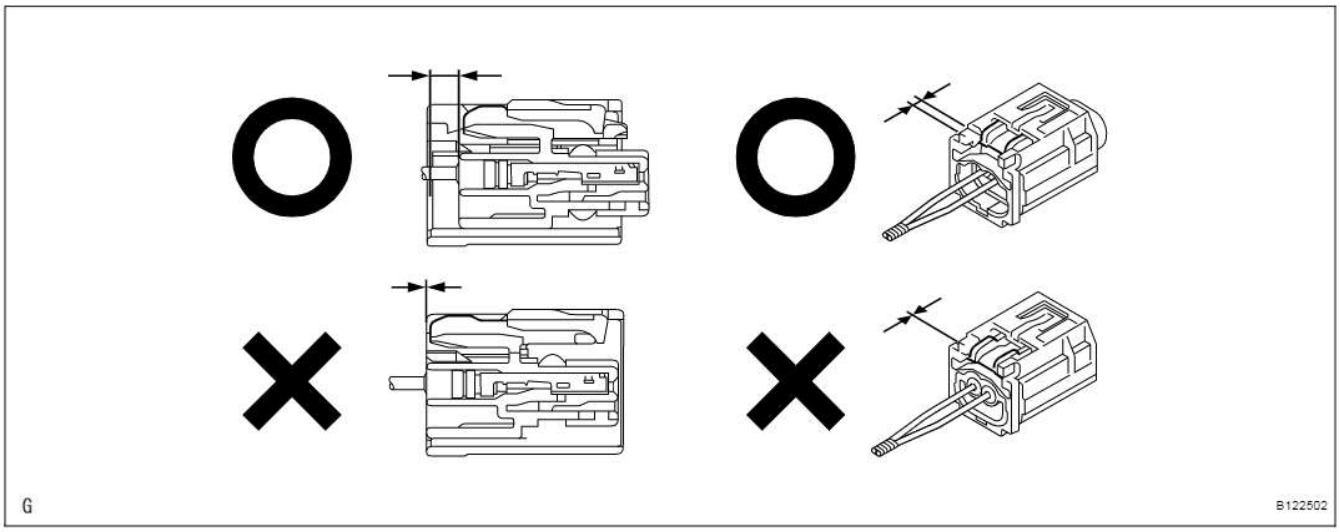


(c) After disconnecting the connector, check that the position of the housing lock (the white part) is as shown in the illustration.

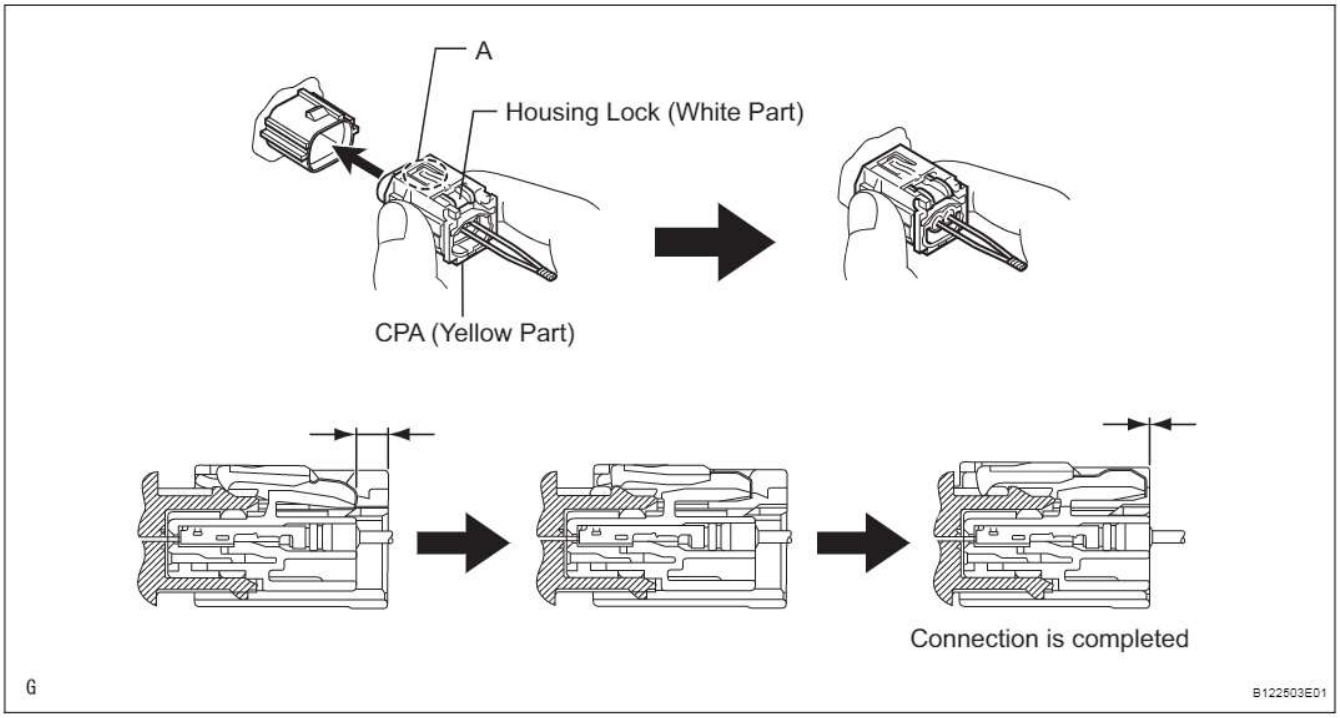



**9. CONNECTION OF CONNECTOR FOR FRONT AIRBAG SENSOR**

(a) Before connecting the connectors, check that the position of the housing lock (the white part) is as shown in the illustration.




(b) Be sure to engage the connectors until they are locked. (When locking, make sure that a click sound can be heard.)
HINT:
When connecting them, the housing lock (white part) slides. Be sure not to hold the housing lock (white part) and A part, as it may result in an insecure fit.


A
Housing Lock (White Part)
CPA (Yellow Part)
Connection is completed
G
B122603E01

| DTC | B0108/52 | Short to B+ in Front Passenger Side Squib Circuit |
|---|---|---|

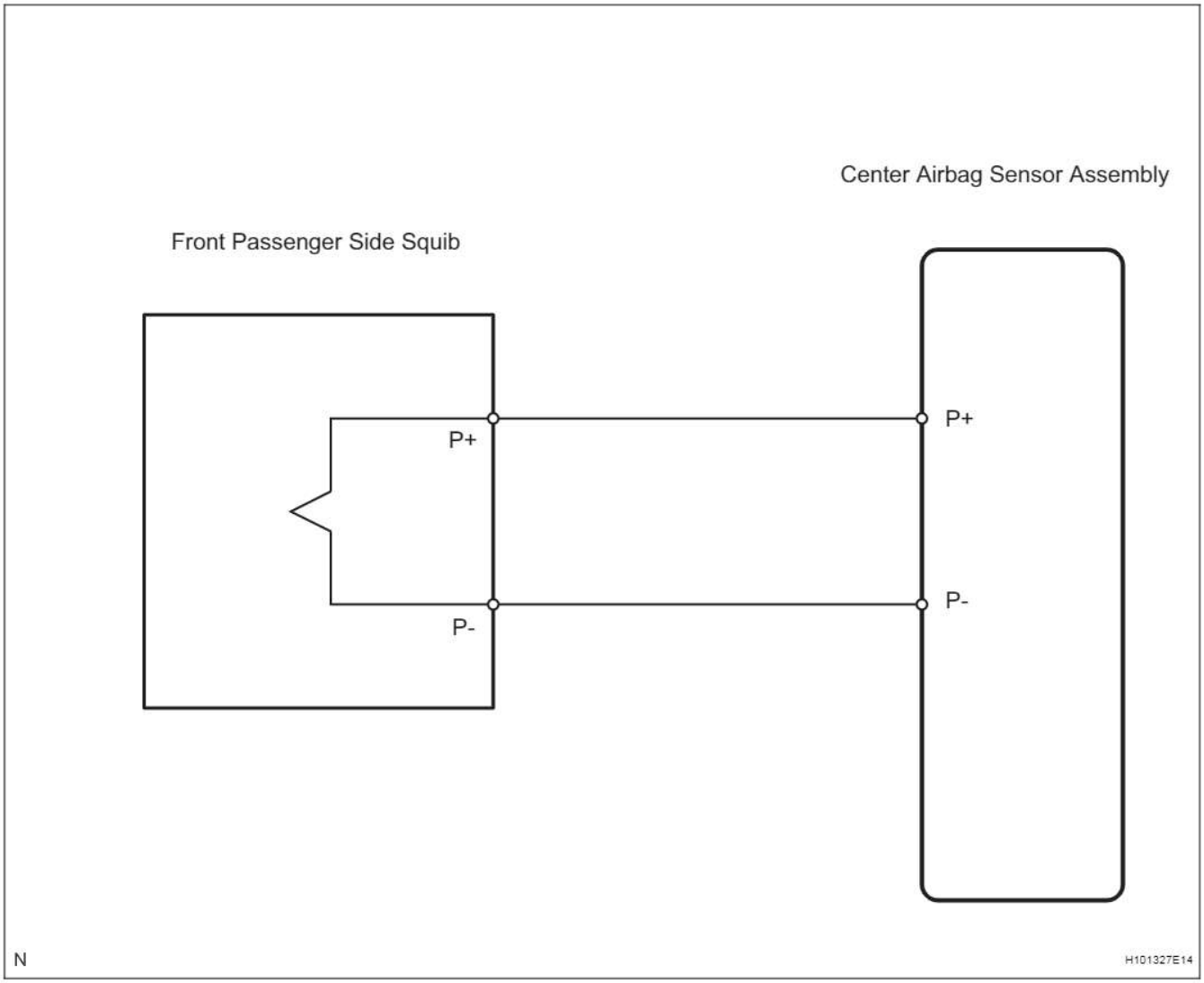
## DESCRIPTION

RS

The front passenger side squib circuit consists of the center airbag sensor and the front passenger airbag. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0108/52 is recorded when a B+ short is detected in the front passenger side squib circuit.

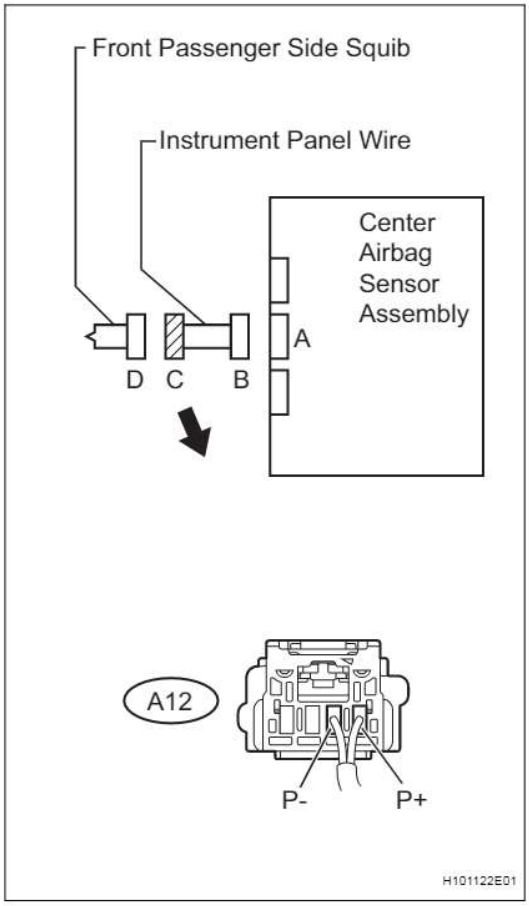
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0108/52 | • Short in front passenger side squib circuit (to B+)<br>• Front passenger side squib malfunction<br>• Center airbag sensor malfunction | • Front passenger airbag assembly (front passenger side squib)<br>• Center airbag sensor assembly<br>• Instrument panel wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front passenger airbag.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

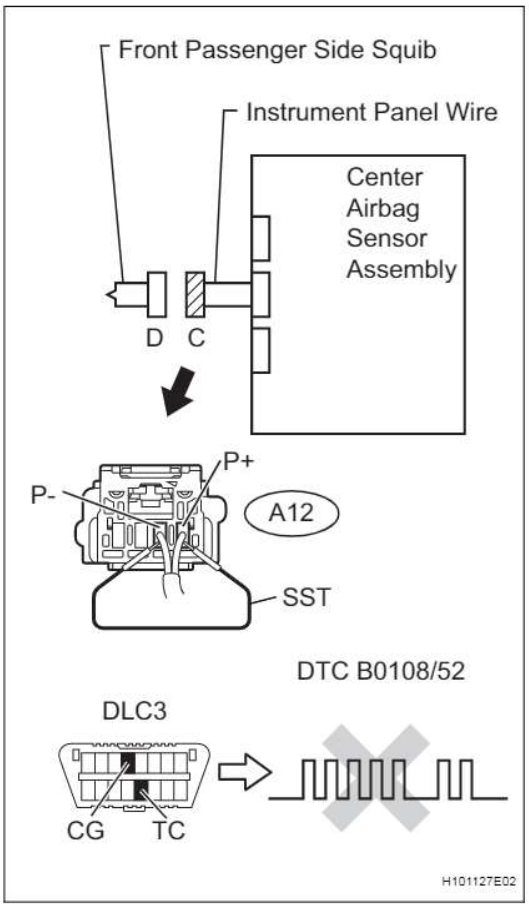
| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| A12-1 (P+) - Body ground | Ignition switch ON | Below 1 V |
| A12-2 (P-) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

RS

| 2 | CHECK CENTER AIRBAG SENOR ASSEMBLY |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using SST, connect terminals P+ and P- of connector "C".

**SST 09843-18040**

**NOTICE:**

**Do not forcibly insert SST into the terminals of the connector when connecting.**

(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0108/52 is not output.**

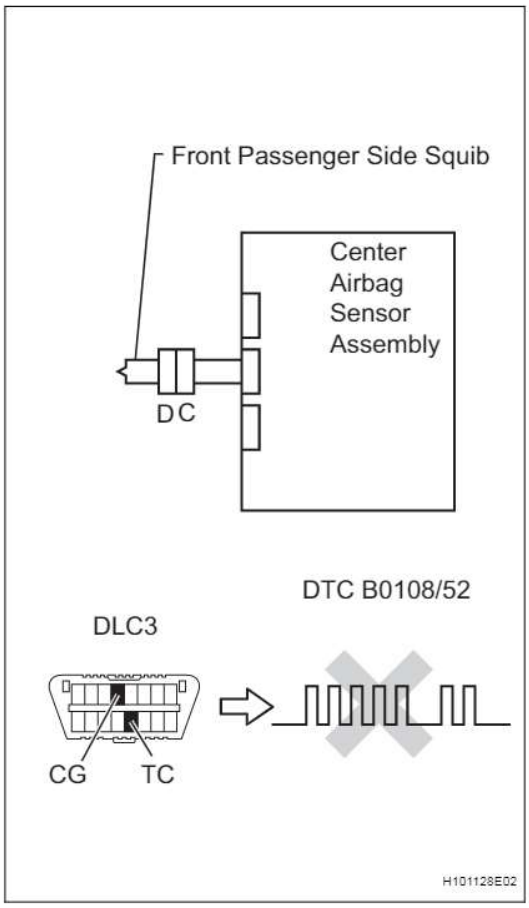
HINT:

Codes other than code B0108/52 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the front passenger airbag (front passenger side squib) connector.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B0108/52 is not output.**

HINT:

Codes other than code B0108/52 may be output at this time, but they are not relevant to this check.

NG → **REPLACE INSTRUMENT PANEL PASSENGER AIRBAG ASSEMBLY**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B0110/43 | Short in Side Squib RH Circuit |
|---|---|---|

## DESCRIPTION

The side squib RH circuit consists of the center airbag sensor and the front seat side airbag assembly RH. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

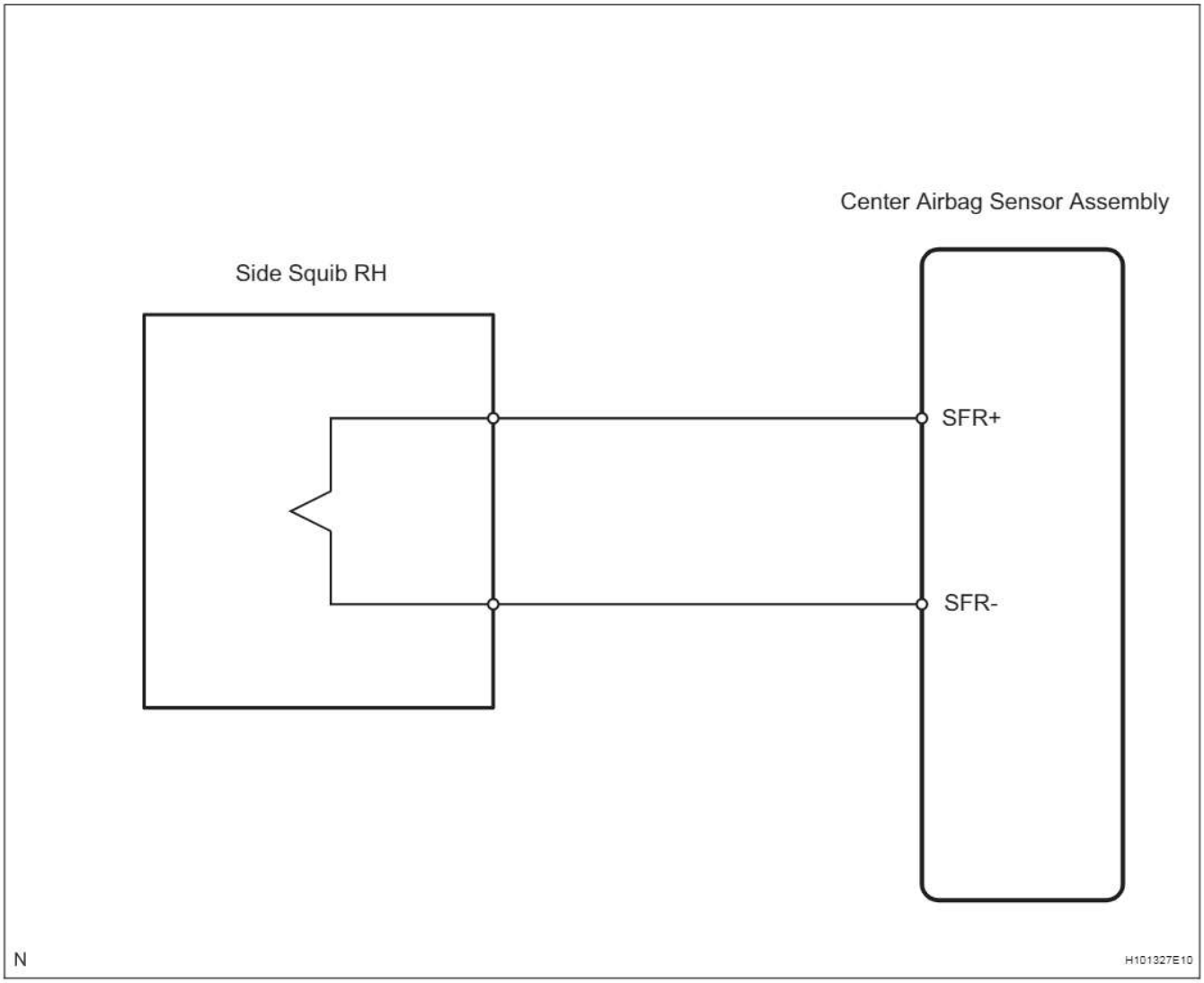
DTC B0110/43 is recorded when a short is detected in the side squib RH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0110/43 | • Short in side squib RH circuit<br>• Side squib RH malfunction<br>• Center airbag sensor assembly malfunction | • Front seat side airbag assembly RH (side squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

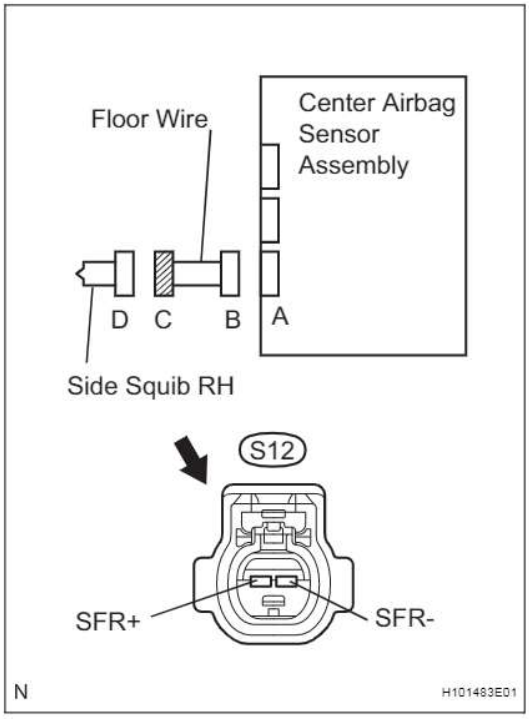
DTC B0110/43 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat side airbag assembly RH (side squib RH).
(d) Release the activation prevention built into connector "B" (see page RS-18).
(e) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

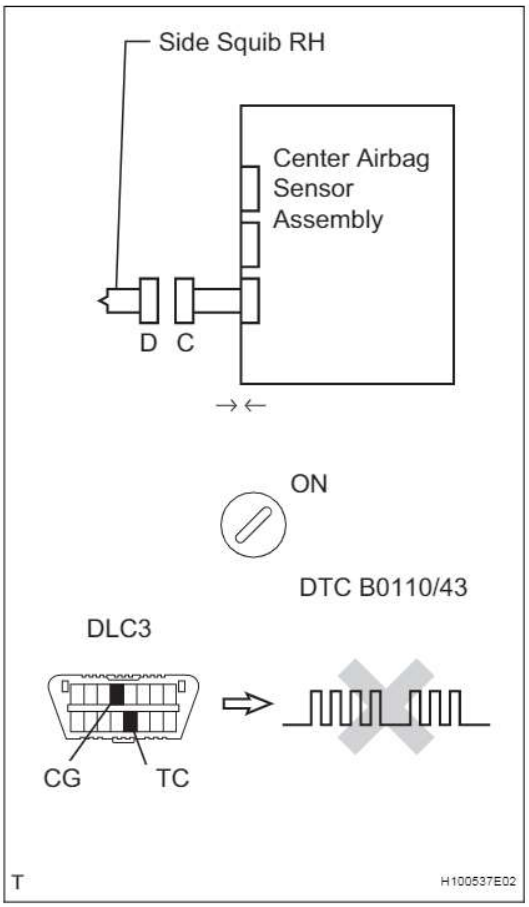
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| S12-1 (SFR+) - S12-2 (SFR-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B0110/43 is not output.**

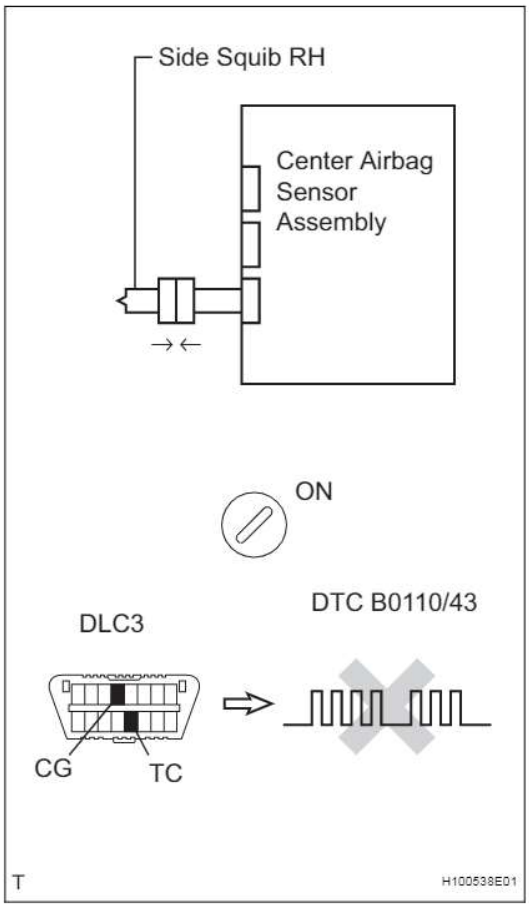
HINT:

Codes other than code B0110/43 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY RH (SIDE SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the front seat side airbag assembly RH (side squib RH) connector.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B0110/43 is not output.**

HINT:

Codes other than code B0110/43 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEATBACK ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

| DTC | B0111/44 | Open in Side Squib RH Circuit |
|---|---|---|

## DESCRIPTION

The side squib RH circuit consists of the center airbag sensor and the front seat side airbag assembly RH. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

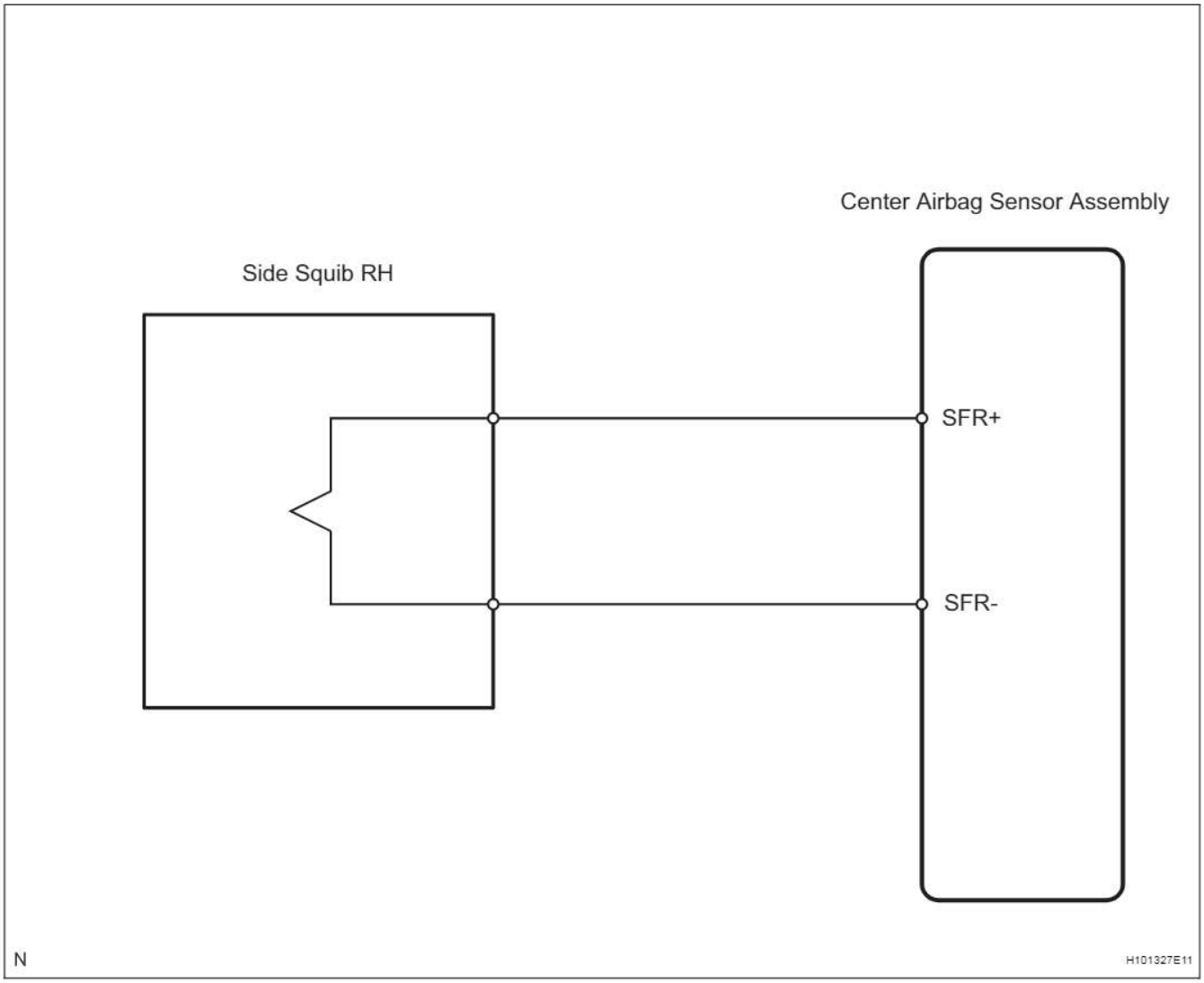
DTC B0111/44 is recorded when an open is detected in the side squib RH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0111/44 | • Open in side squib RH circuit<br>• Side squib RH malfunction<br>• Center airbag sensor malfunction | • Front seat side airbag assembly RH (Side squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

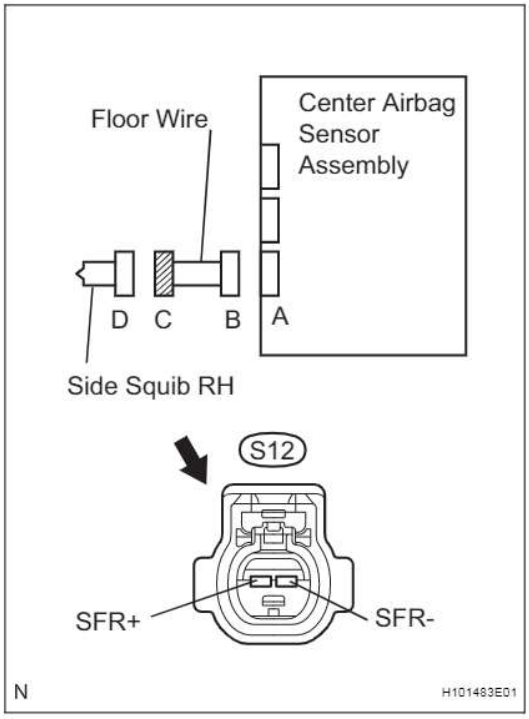
DTC B0111/44 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat side airbag assembly RH (side squib RH).
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

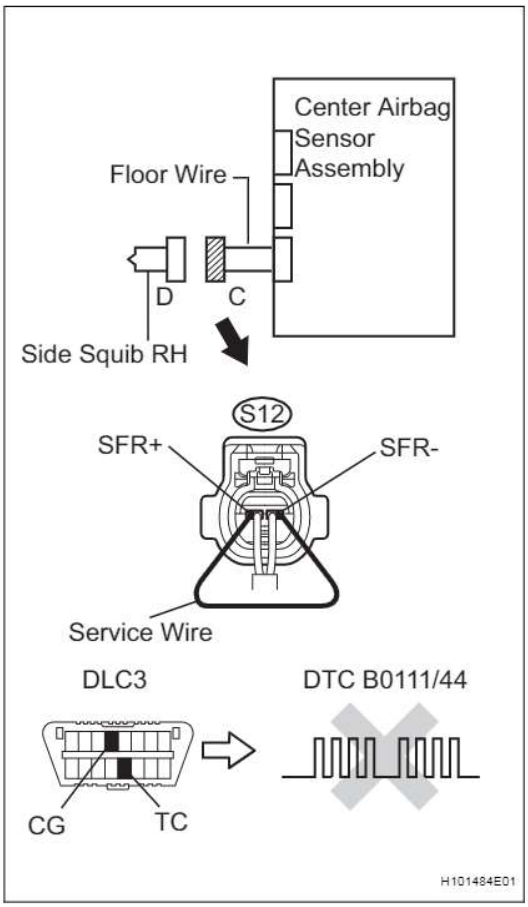
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| S12-1 (SFR+) - S12-2 (SFR-) | Below 1 Ω |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

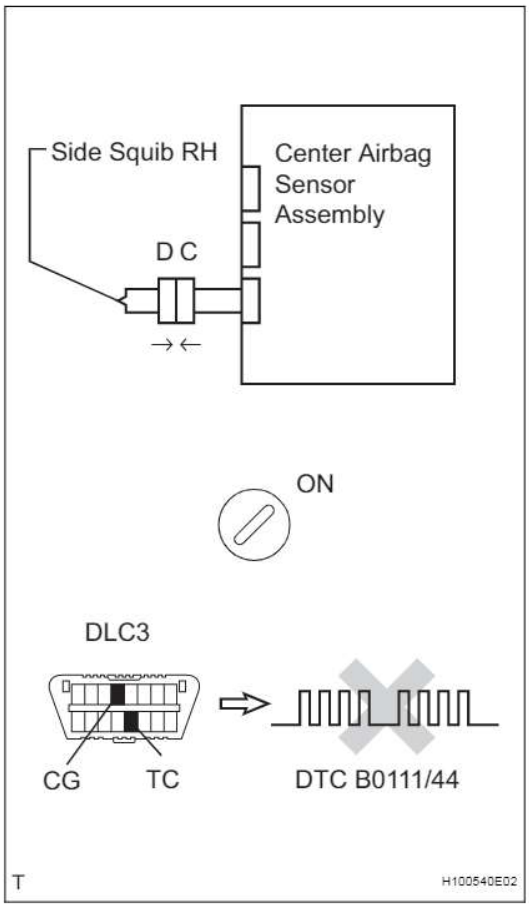



(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals SFR+ and SFR- of connector "C".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0111/44 is not output.**
HINT:
Codes other than code B0111/44 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY RH (SIDE SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat side airbag assembly RH (side squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0111/44 is not output.**

HINT:

Codes other than code B0111/44 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEATBACK ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

| DTC | B0112/41 | Short to GND in Side Squib RH Circuit |
|---|---|---|

## DESCRIPTION

The side squib RH circuit consists of the center airbag sensor and the front seat side airbag assembly RH. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

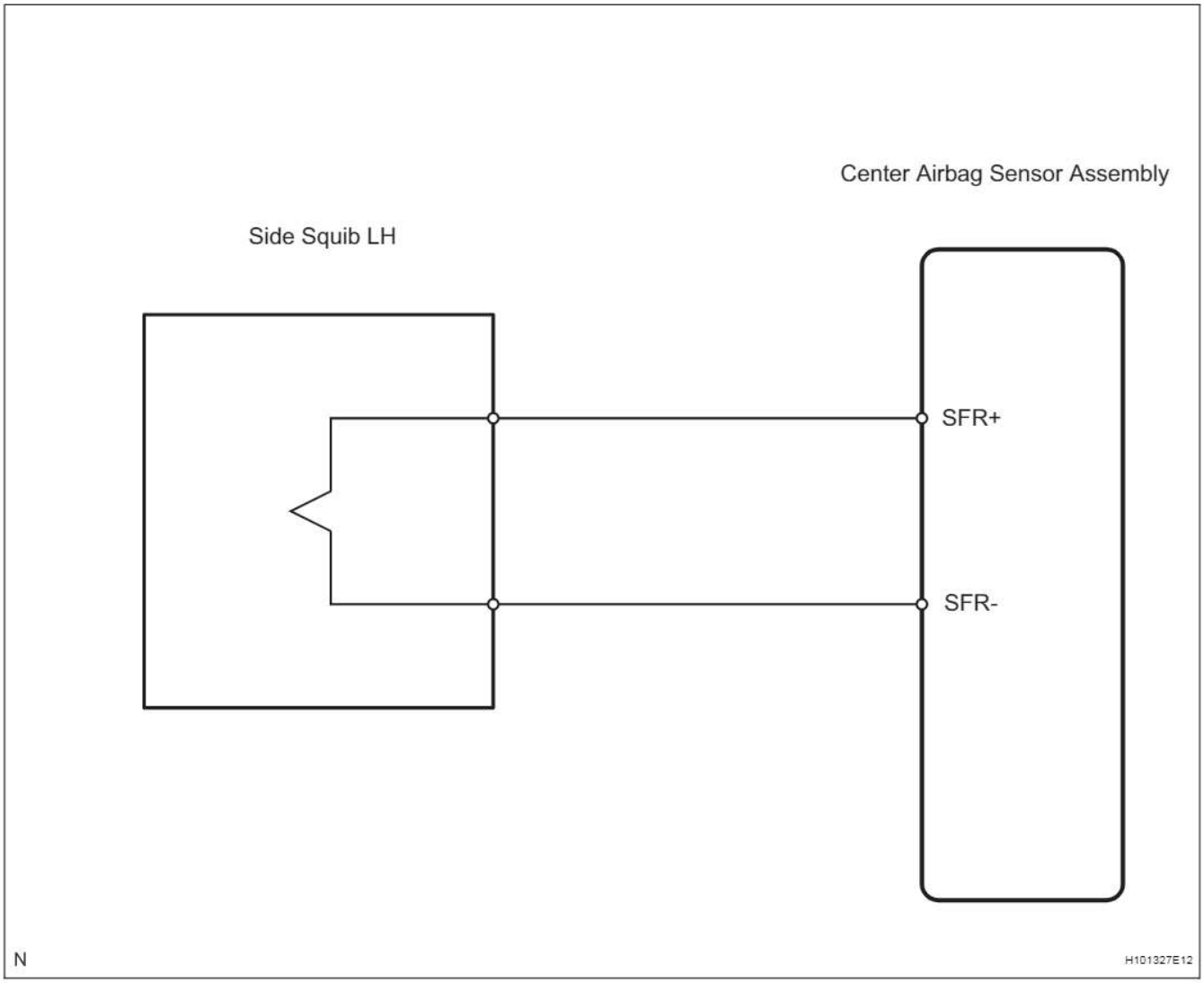
DTC B0112/41 is recorded when a ground short is detected in the side squib RH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0112/41 | • Short in side squib RH circuit (to ground)<br>• Side squib RH malfunction<br>• Center airbag sensor malfunction | • Front seat side airbag assembly RH (side squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

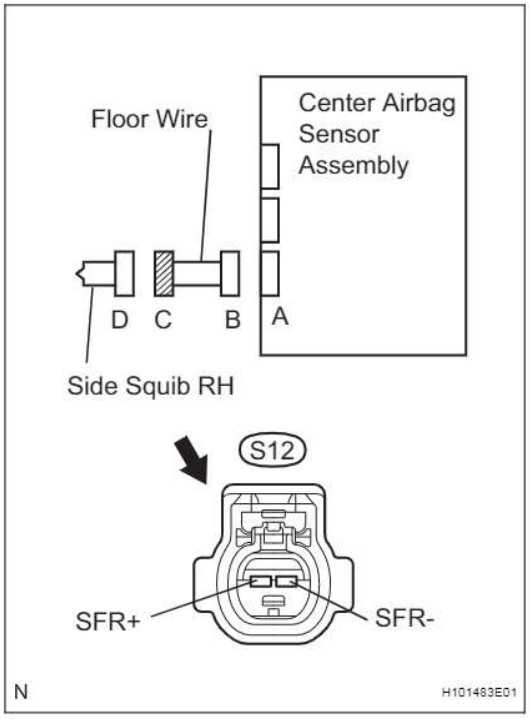
DTC B0112/41 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the side airbag RH (side squib RH).
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

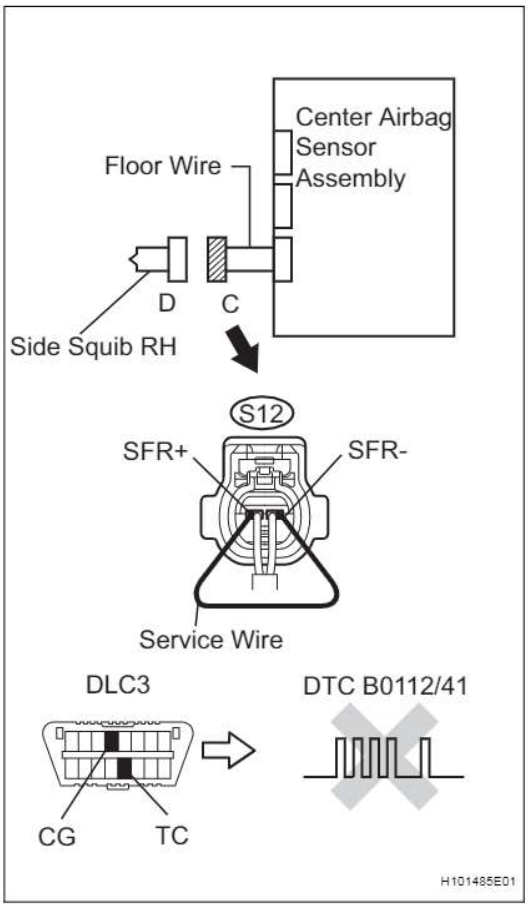
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| S12-1 (SFR+) - Body ground | 1 MΩ or higher |
| S12-2 (SFR-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

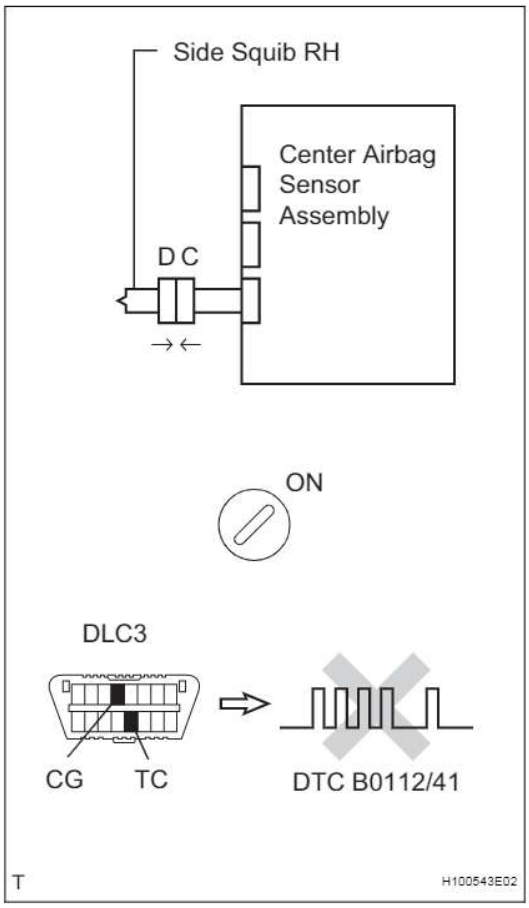



(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals SFR+ and SFR- of the connector "C".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0112/41 is not output.**
HINT:
Codes other than code B0112/41 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY RH (SIDE SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat side airbag assembly RH (side squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0112/41 is not output.**

HINT:

Codes other than code B0112/41 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEATBACK ASSEMBLY**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B0113/42 | Short to B+ in Side Squib RH Circuit |
|---|---|---|

## DESCRIPTION

The side squib RH circuit consists of the center airbag sensor and the front seat side airbag assembly RH. This circuit instructs the SRS to deploy when deployment conditions are met.

RS

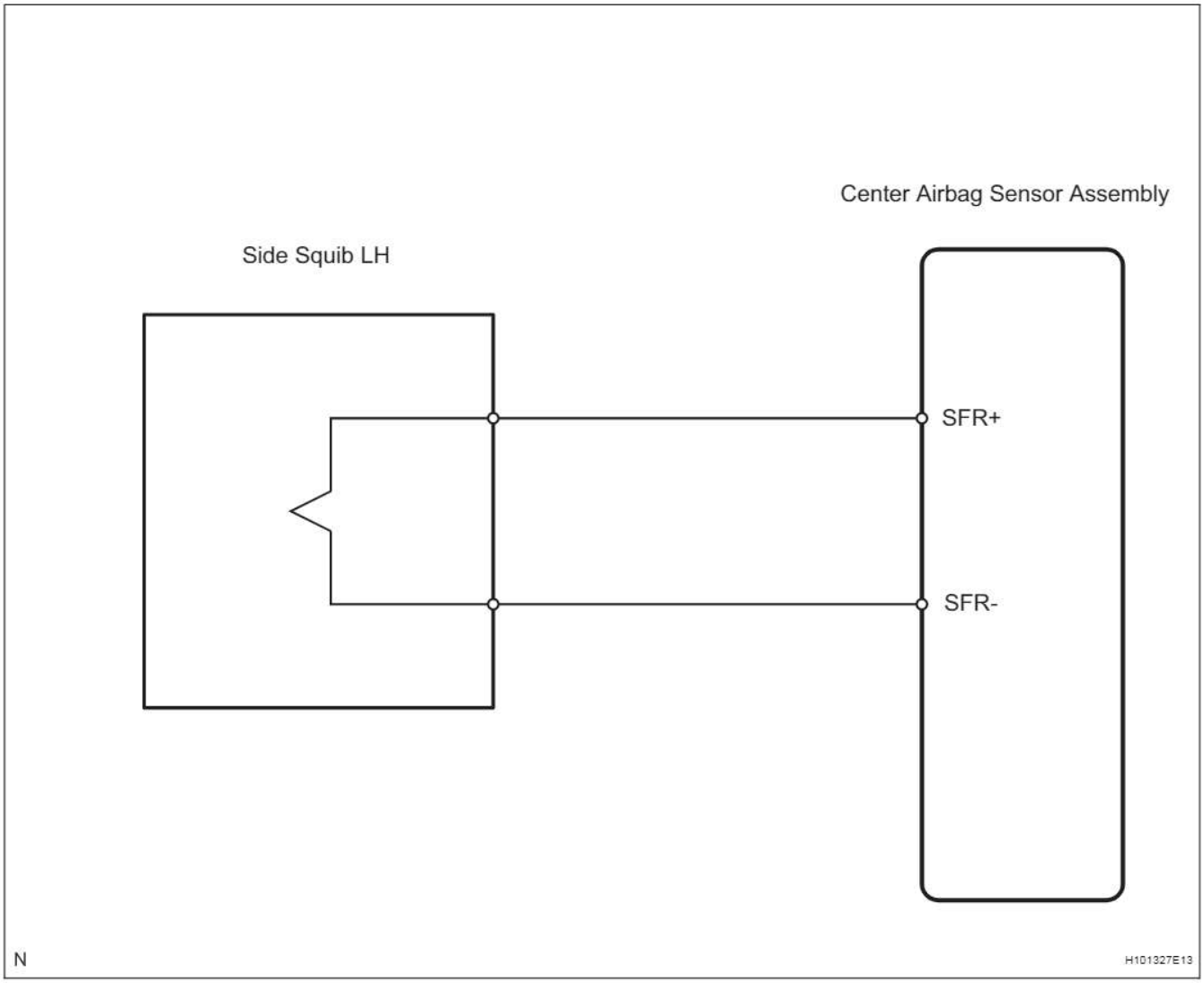
DTC B0113/42 is recorded when a B+ short is detected in the side squib RH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0113/42 | • Short in side squib RH circuit (to B+)<br>• Side squib RH malfunction<br>• Center airbag sensor malfunction | • Front seat side airbag RH assembly (Side squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

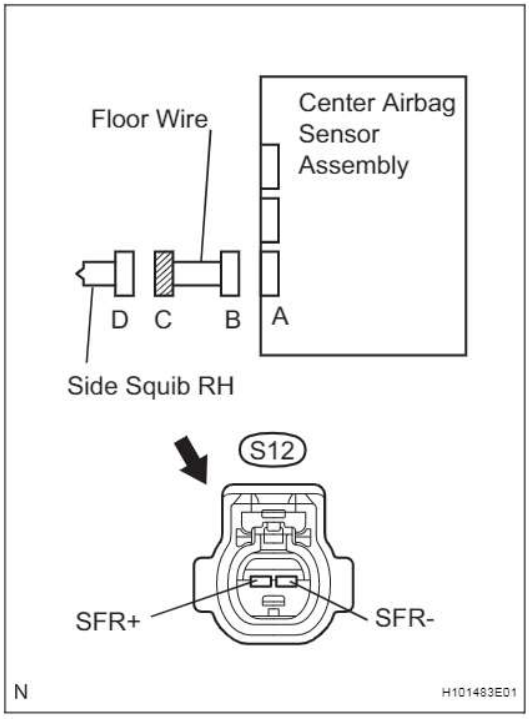
DTC B0113/42 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (SIDE SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat side airbag assembly RH (side squib RH).
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

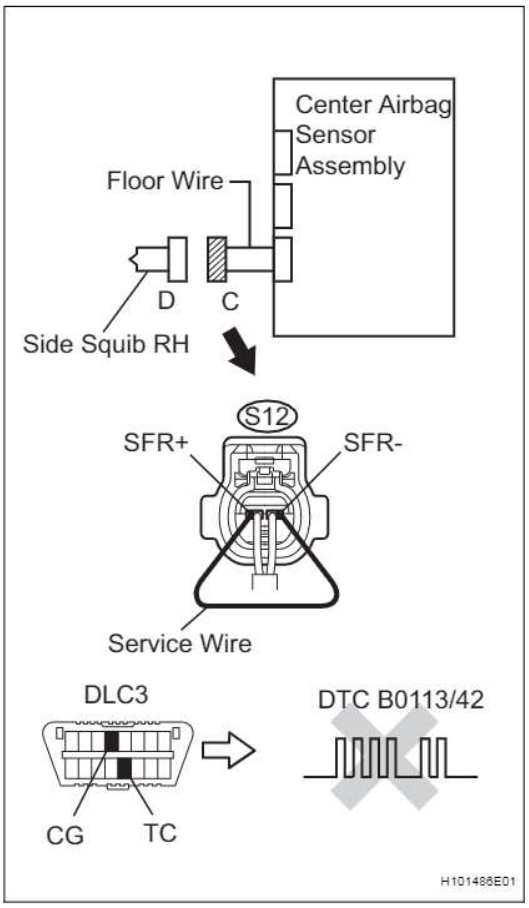
| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| S12-1 (SFR+) - Body ground | Ignition switch ON | Below 1 V |
| S12-2 (SFR-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

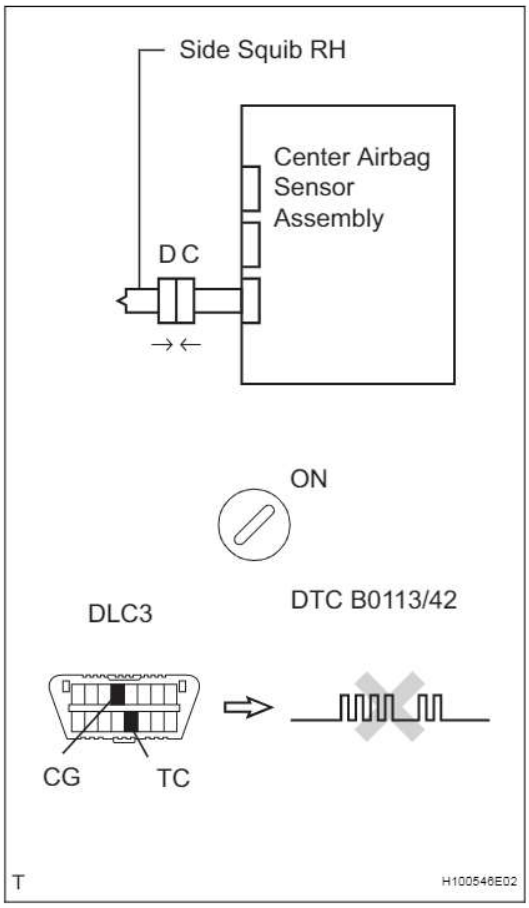



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using a service wire, connect terminals SFR+ and SFR- of the connector "C".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).
**OK:**
**DTC B0113/42 is not output.**
HINT:
Codes other than code B0113/42 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY RH (SIDE SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat side airbag assembly RH (side squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0113/42 is not output.**

HINT:

Codes other than code B0113/42 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEATBACK ASSEMBLY (SIDE SQUIB RH)**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B0115/47 | Short in Side Squib LH Circuit |
|---|---|---|

## DESCRIPTION

The side squib LH circuit consists of the center airbag sensor and the front seat side airbag assembly LH. This circuit instructs the SRS to deploy when deployment conditions are met.

RS

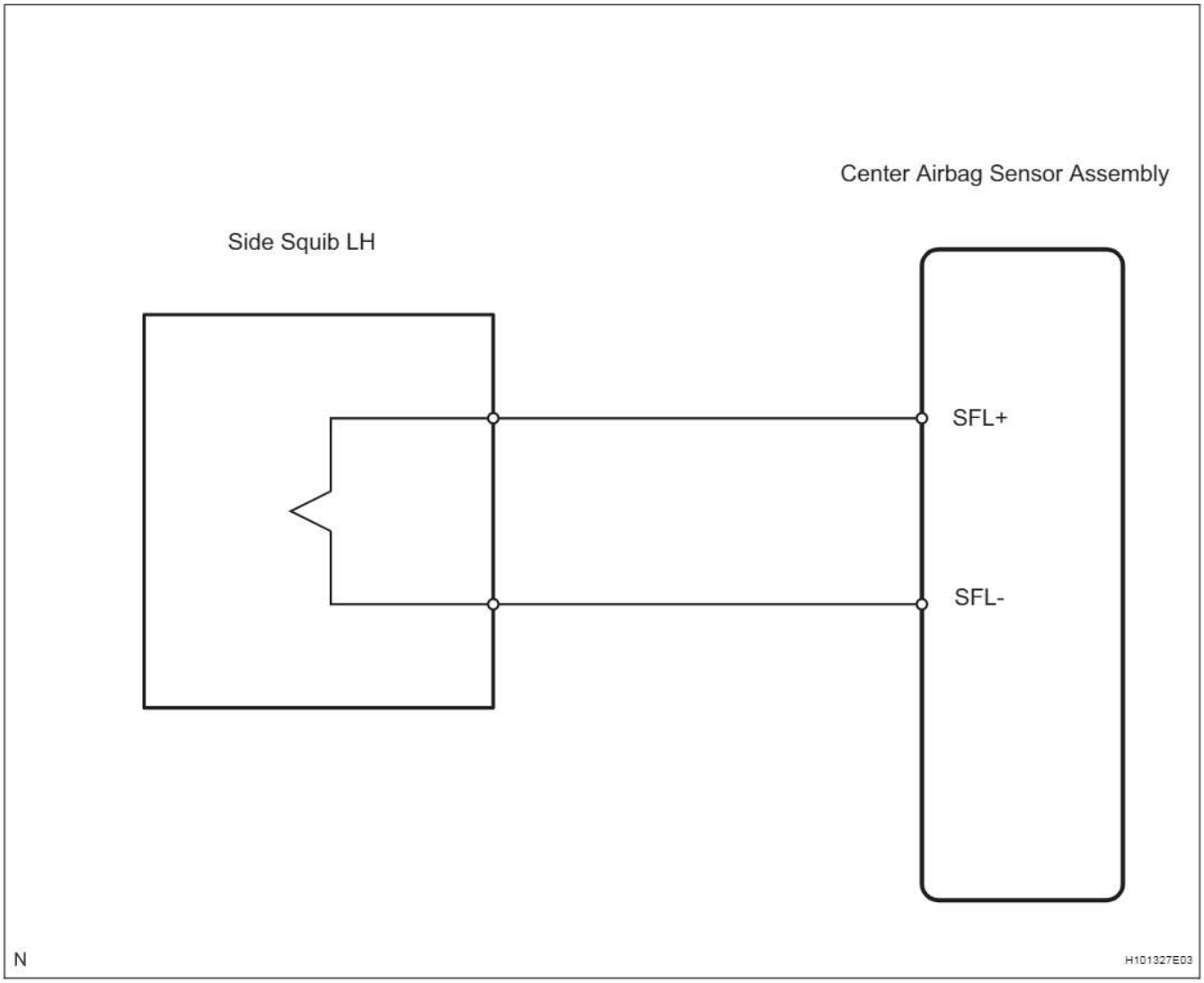
DTC B0115/47 is recorded when a short is detected in the side squib LH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0115/47 | • Short in side squib LH circuit<br>• Side squib LH malfunction<br>• Center airbag sensor malfunction | • Front seat side airbag assembly LH (Side squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

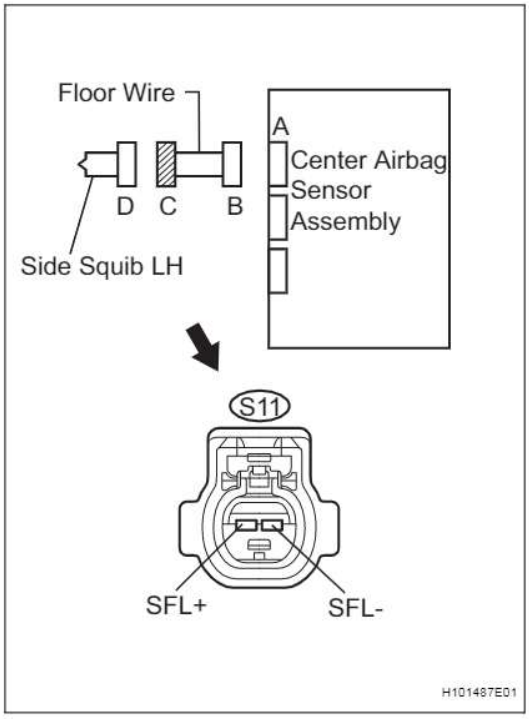
DTC B0115/47 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (SIDE SQUIB LH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat side airbag assembly LH (side squib LH).
(d) Release the activation prevention mechanism built into connector "B" (see page RS-18).
(e) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

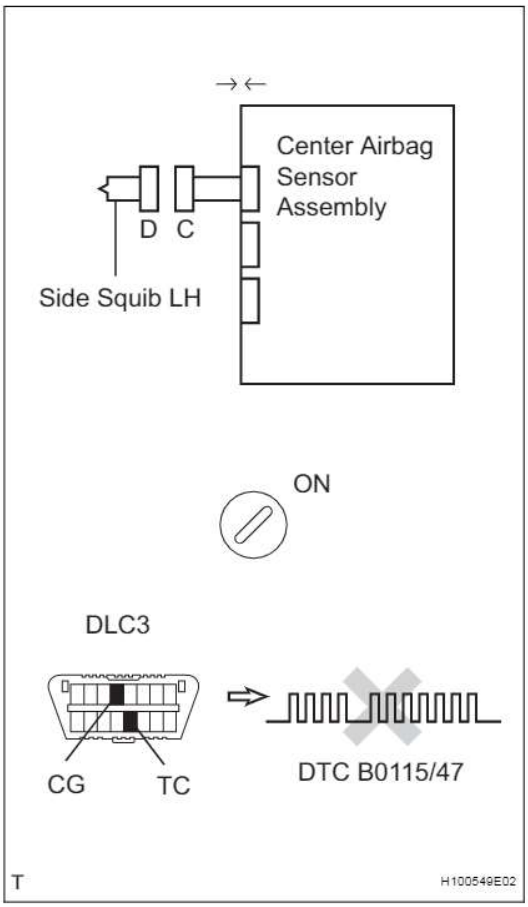
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| S11-1 (SFL+) - S11-2 (SFL-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B0115/47 is not output.**

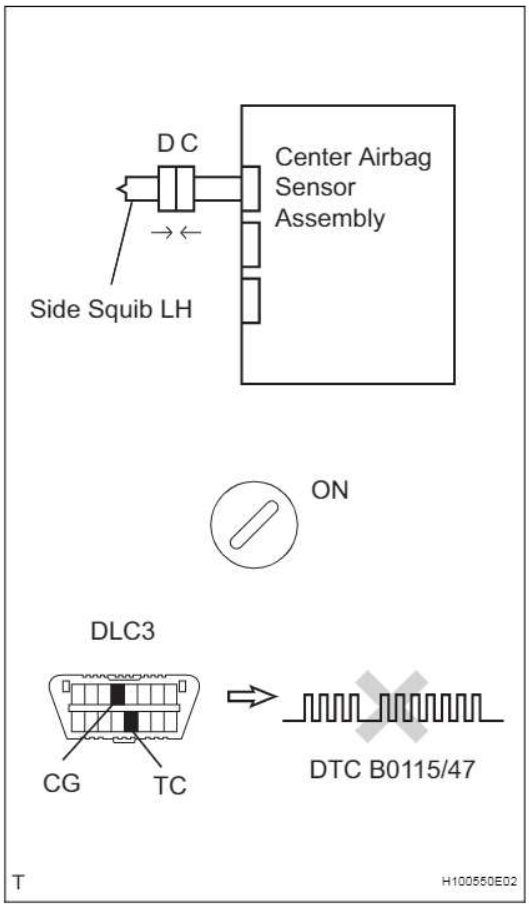
HINT:

Codes other than code B0115/47 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY LH (SIDE SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the front seat side airbag assembly LH (side squib LH) connector.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B0115/47 is not output.**

HINT:

Codes other than code B0115/47 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEATBACK ASSEMBLY (SIDE SQUIB LH)**

OK

**USE SIMULATION METHOD TO CHECK**

| DTC | B0116/48 | Open in Side Squib LH Circuit |
|---|---|---|

## DESCRIPTION

The side squib LH circuit consists of the center airbag sensor and the front seat side airbag assembly LH. This circuit instructs the SRS to deploy when deployment conditions are met.

RS

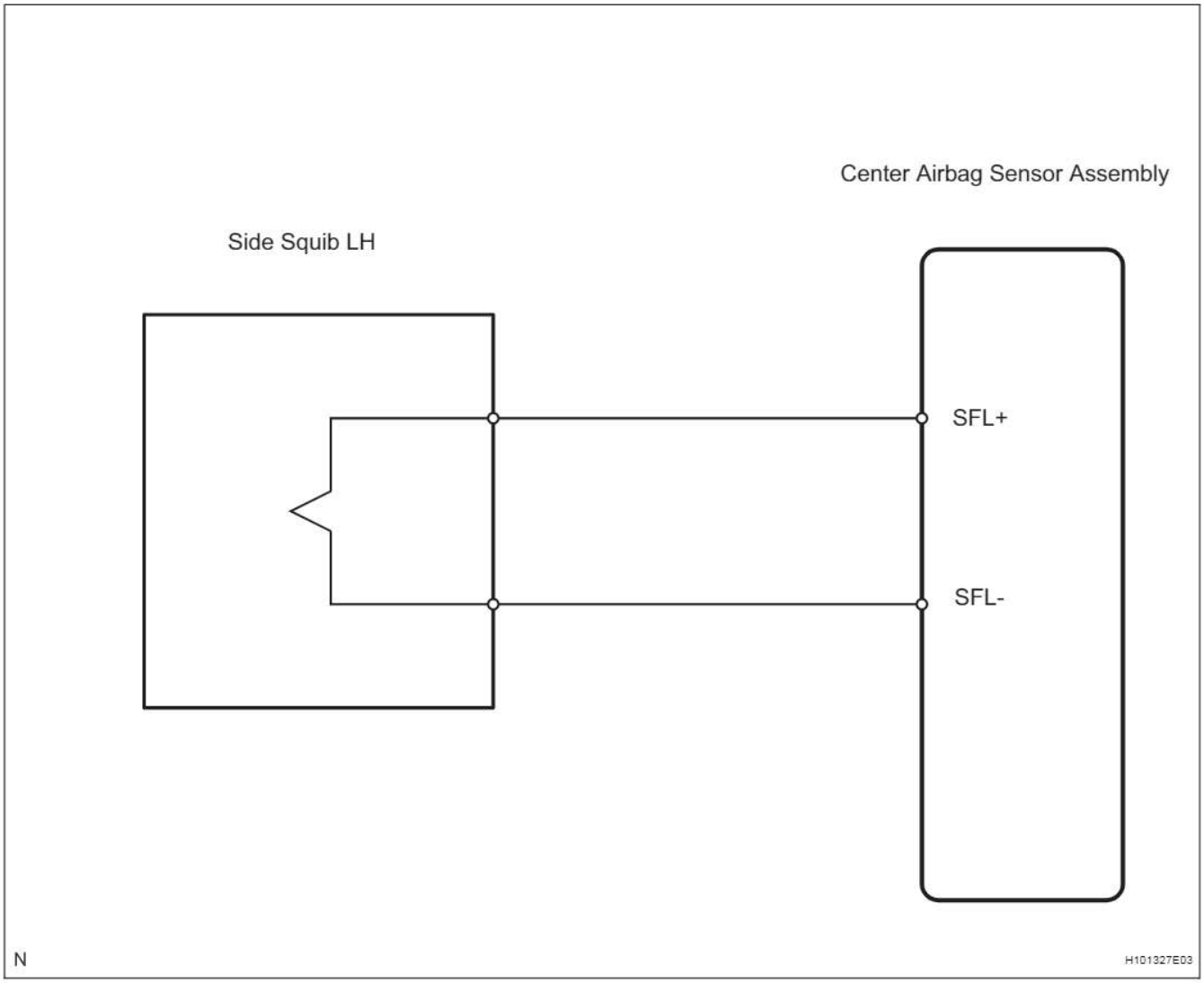
DTC B0116/48 is recorded when an open is detected in the side squib LH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0116/48 | • Open in side squib LH circuit<br>• Side squib LH malfunction<br>• Center airbag sensor malfunction | • Front seat side airbag LH assembly (Side squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

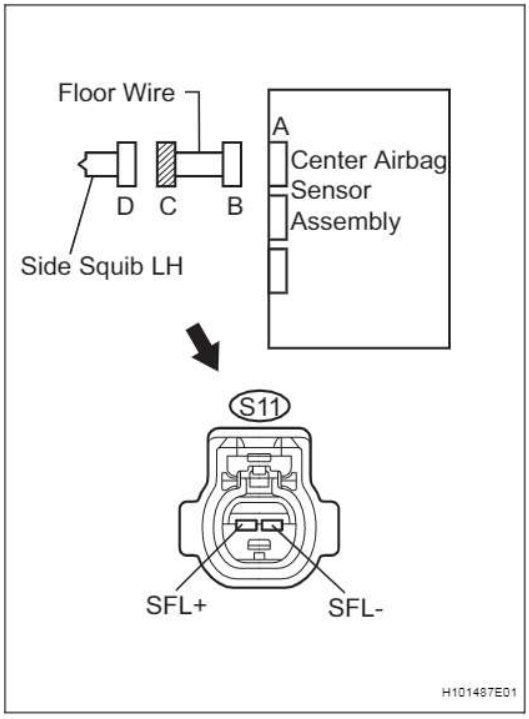
DTC B0116/48 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (SIDE SQUIB LH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat side airbag assembly LH (side squib LH).
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

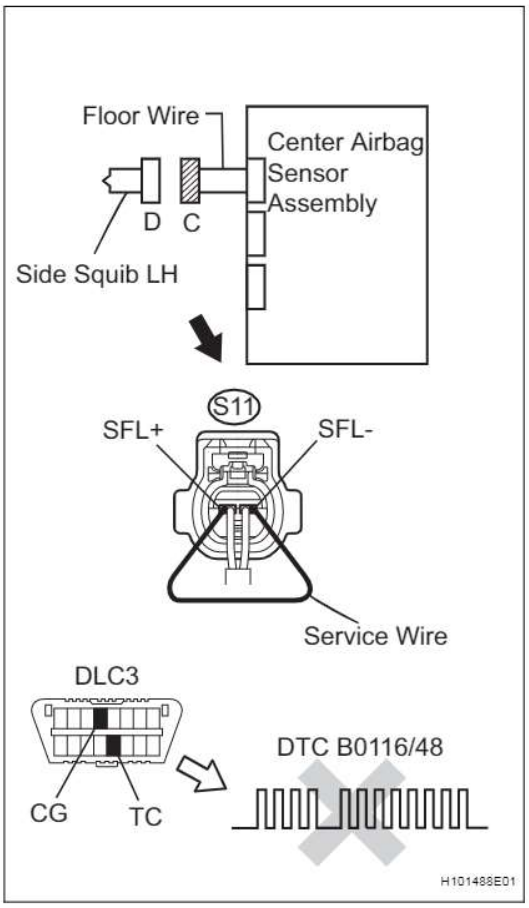
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| S11-1 (SFL+) - S11-2 (SFL-) | Below 1 Ω |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

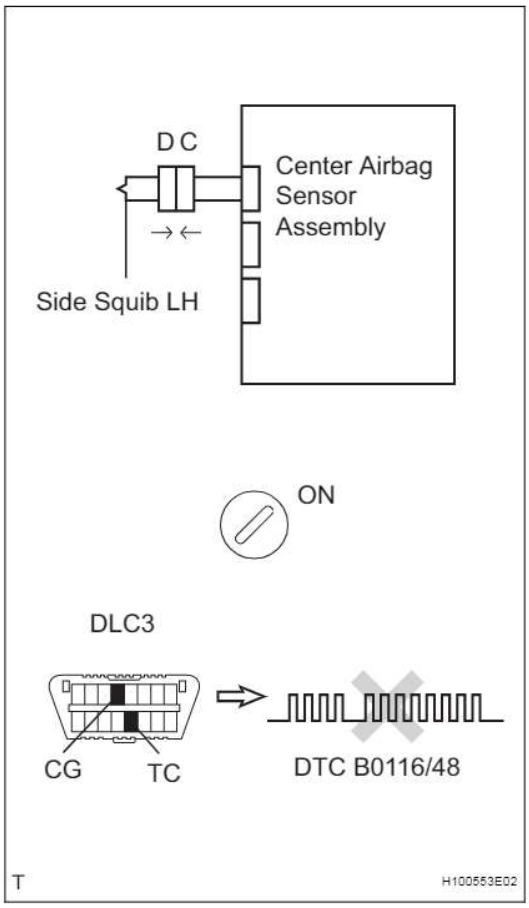



(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals SFL+ and SFL- of connector "C".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(c) Connect the negative (-) terminal cable to the battery, and wait at least 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0116/48 is not output.**
HINT:
Codes other than code B0116/48 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY LH (SIDE SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the side airbag LH (side squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0116/48 is not output.**

HINT:

Codes other than code B0116/48 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEATBACK ASSEMBLY (SIDE SQUIB LH)**

OK

**USE SIMULATION METHOD TO CHECK**

| DTC | B0117/45 | Short to GND in Side Squib LH Circuit |
|---|---|---|

## DESCRIPTION

The side squib LH circuit consists of the center airbag sensor and the front seat side airbag assembly LH. This circuit instructs the SRS to deploy when deployment conditions are met.

RS

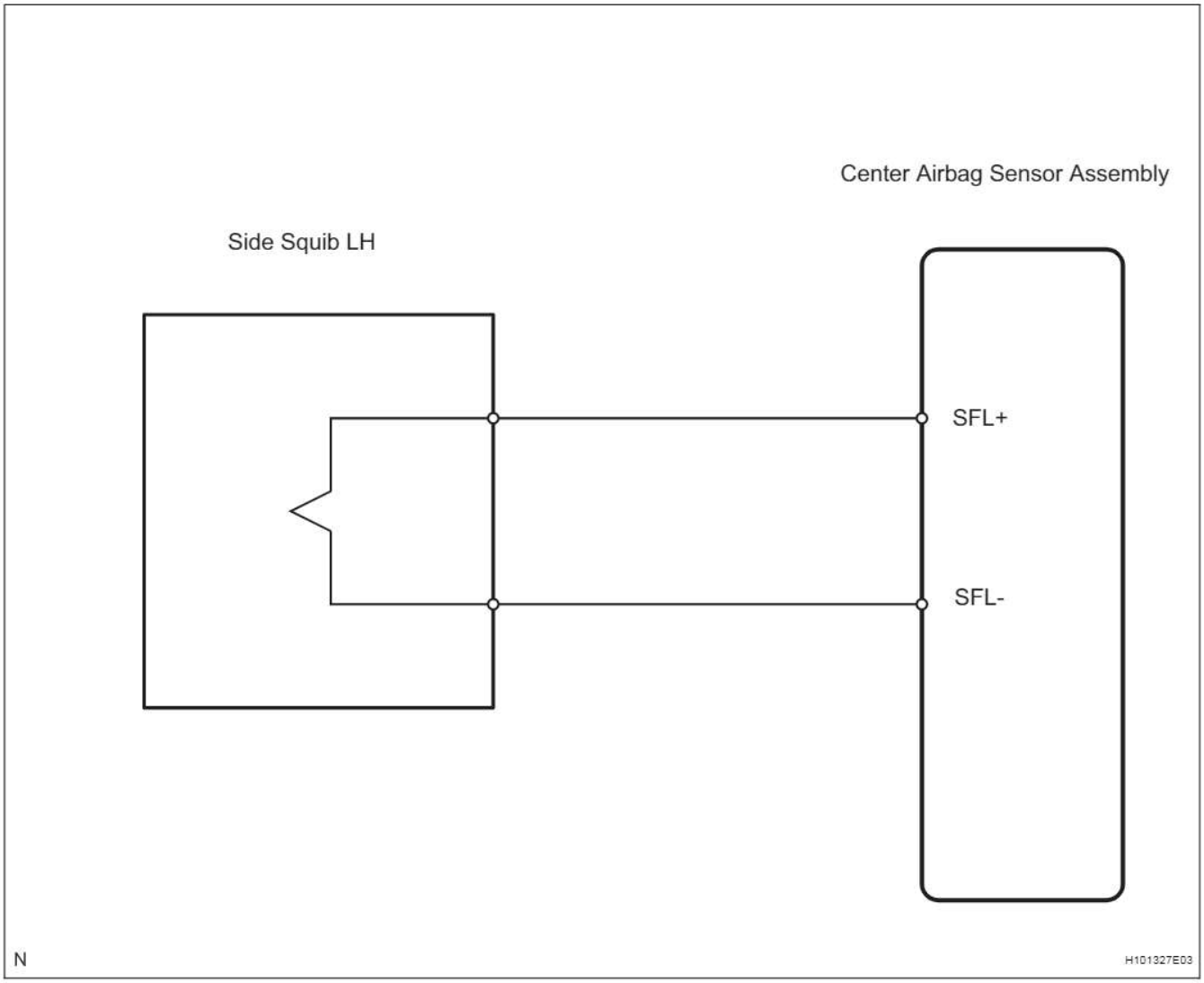
DTC B0117/45 is recorded when a ground short is detected in the side squib LH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0117/45 | • Short in side squib LH circuit (to ground)<br>• Side squib LH malfunction<br>• Center airbag sensor assembly malfunction | • Front seat side airbag assembly LH (Side squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

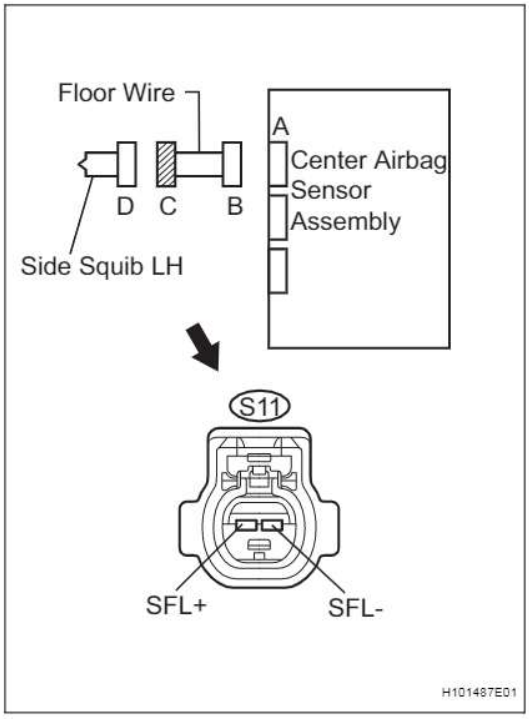
DTC B0117/45 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (SIDE SQUIB LH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat side airbag assembly LH (side squib LH).
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

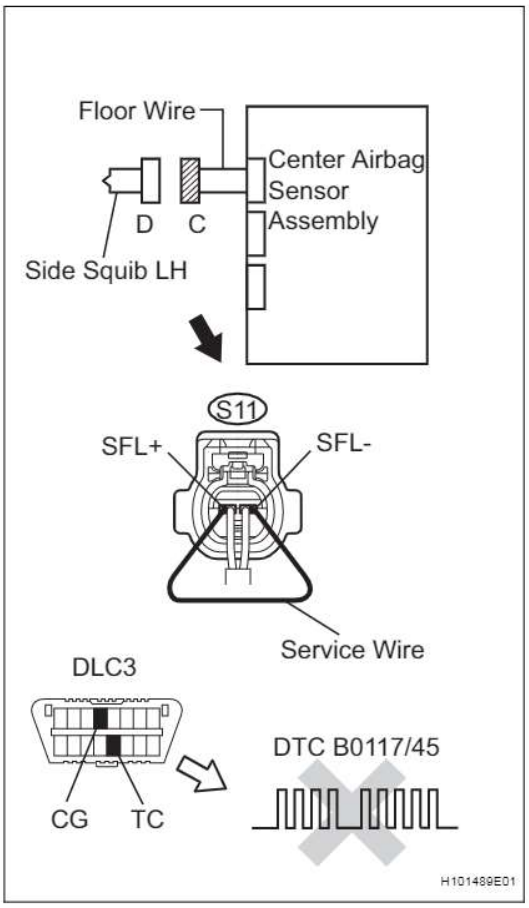
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| S11-1 (SFL+) - Body ground | 1 MΩ or higher |
| S11-2 (SFL-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

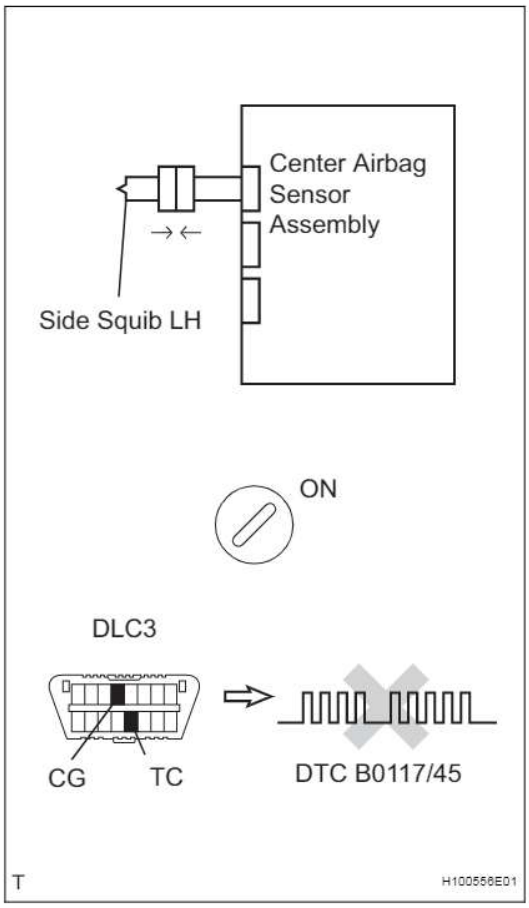



(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals SFL+ and SFL- of connector "C".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0117/45 is not output.**
HINT:
Codes other than code B0117/45 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY LH (SIDE SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat side airbag assembly LH (side squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0117/45 is not output.**

HINT:

Codes other than code B0117/45 may be output at this time, but they are not related to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEATBACK ASSEMBLY**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

# PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Proceed to the troubleshooting procedures for each circuit in the table below.

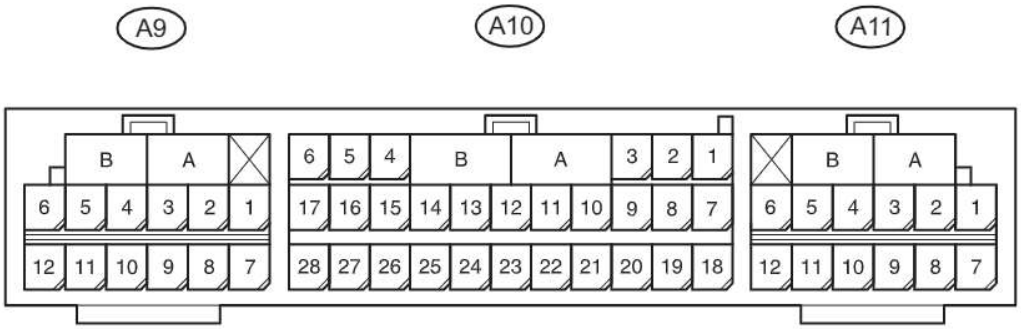
## Airbag system

| Symptom | Suspected area | See page |
|---|---|---|
| When the ignition switch is in the ON position, the SRS warning light sometimes comes on after approximately 6 seconds | SRS warning light remains ON | RS-278 |
| SRS warning light always comes on even when DTC is not output. | SRS warning light remains ON | RS-278 |
| With the ignition switch is in the ON position, the SRS warning light does not come on | SRS warning light does not come ON | RS-281 |
| SRS warning light comes on normally but the DTC and normal system code are not displayed. | TC and CG Terminal circuit | RS-283 |
| The terminals TC and CG are not connected but the DTC and normal system code are displayed. | TC and CG Terminal circuit | RS-283 |

# TERMINALS OF ECU

## 1. CENTER AIRBAG SENSOR ASSEMBLY (w/o Side Airbag)



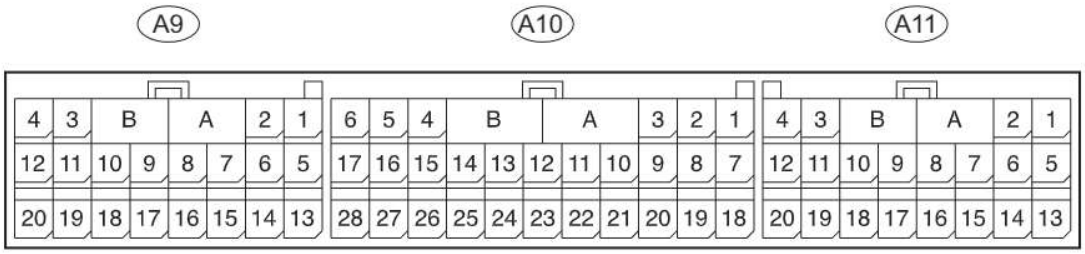



T H101325E01

| Terminal No. | Symbol | Destination |
|---|---|---|
| A | - | (Electrical Connector Check Mechanism) |
| B | - | (Electrical Connector Check Mechanism) |
| A10-3 | LA | Combination Meter Assembly (SRS Warning Light) |
| A10-5 | IG2 | AM2 Fuse |
| A10-7 | P2- | Front Passenger Airbag Assembly (P Squib, 2nd step) |
| A10-8 | P2+ | Front Passenger Airbag Assembly (P Squib, 2nd step) |
| A10-9 | +SR | Front Airbag Sensor RH |
| A10-10 | P+ | Front Passenger Airbag Assembly (P Squib) |
| A10-11 | P- | Front Passenger Airbag Assembly (P Squib) |
| A10-12 | SIL | DLC3 |
| A10-13 | D- | Steering Pad Assembly (D Squib) |
| A10-14 | D+ | Steering Pad Assembly (D Squib) |
| A10-15 | +SL | Front Airbag Sensor LH |
| A10-16 | D2+ | Steering Pad Assembly (D Squib, 2nd step) |
| A10-17 | D2- | Steering Pad Assembly (D Squib, 2nd step) |
| A10-19 | TC | DLC3 |
| A10-20 | -SR | Front Airbag Sensor RH |
| A10-23 | GSW2 | ECM |
| A10-26 | -SL | Front Airbag Sensor LH |
| A10-27 | E1 | Ground |
| A10-28 | E2 | Ground |
| A9-1 | PL- | Front Seat Outer Belt Assembly LH (Squib) |
| A9-2 | PL+ | Front Seat Outer Belt Assembly LH (Squib) |
| A9-3 | LSP+ | Seat Position Airbag Sensor |
| A9-7 | LBE- | Front Seat Inner Belt Assembly LH |

| Terminal No. | Symbol | Destination |
|---|---|---|
| A9-8 | LSP- | Seat Position Airbag Sensor |
| A9-11 | LBE+ | Front Seat Inner Belt Assembly LH |
| A11-5 | PR+ | Front Seat Outer Belt Assembly RH (Squib) |
| A11-6 | PR- | Front Seat Outer Belt Assembly RH (Squib) |
| A11-8 | RBE+ | Front Seat Inner Belt Assembly RH |
| A11-12 | RBE- | Front Seat Inner Belt Assembly RH |

## 2. CENTER AIRBAG SENSOR ASSEMBLY (w/ Side Airbag)




T H100500E03

| Terminal No. | Symbol | Destination |
|---|---|---|
| A | - | (Electrical Connector Check Mechanism) |
| B | - | (Electrical Connector Check Mechanism) |
| A10-3 | LA | Combination Meter Assembly (SRS Warning Light) |
| A10-5 | IG2 | AM2 Fuse |
| A10-7 | P2- | Front Passenger Airbag Assembly (P Squib, 2nd step) |
| A10-8 | P2+ | Front Passenger Airbag Assembly (P Squib, 2nd step) |
| A10-9 | +SR | Front Airbag Sensor RH |
| A10-10 | P+ | Front Passenger Airbag Assembly (P Squib) |
| A10-11 | P- | Front Passenger Airbag Assembly (P Squib) |
| A10-12 | SIL | DLC3 |
| A10-13 | D- | Steering Pad Assembly (D Squib) |
| A10-14 | D+ | Steering Pad Assembly (D Squib) |
| A10-15 | +SL | Front Airbag Sensor LH |
| A10-16 | D2+ | Steering Pad Assembly (D Squib, 2nd step) |
| A10-17 | D2- | Steering Pad Assembly (D Squib, 2nd step) |
| A10-19 | TC | DLC3 |
| A10-20 | -SR | Front Airbag Sensor RH |
| A10-23 | GSW2 | ECM |
| A10-26 | -SL | Front Airbag Sensor LH |
| A10-27 | E1 | Ground |

| DTC | B0118/46 | Short to B+ in Side Squib LH Circuit |
|---|---|---|

## DESCRIPTION

The side squib LH circuit consists of the center airbag sensor and the front seat side airbag assembly LH. This circuit instructs the SRS to deploy when deployment conditions are met.

RS

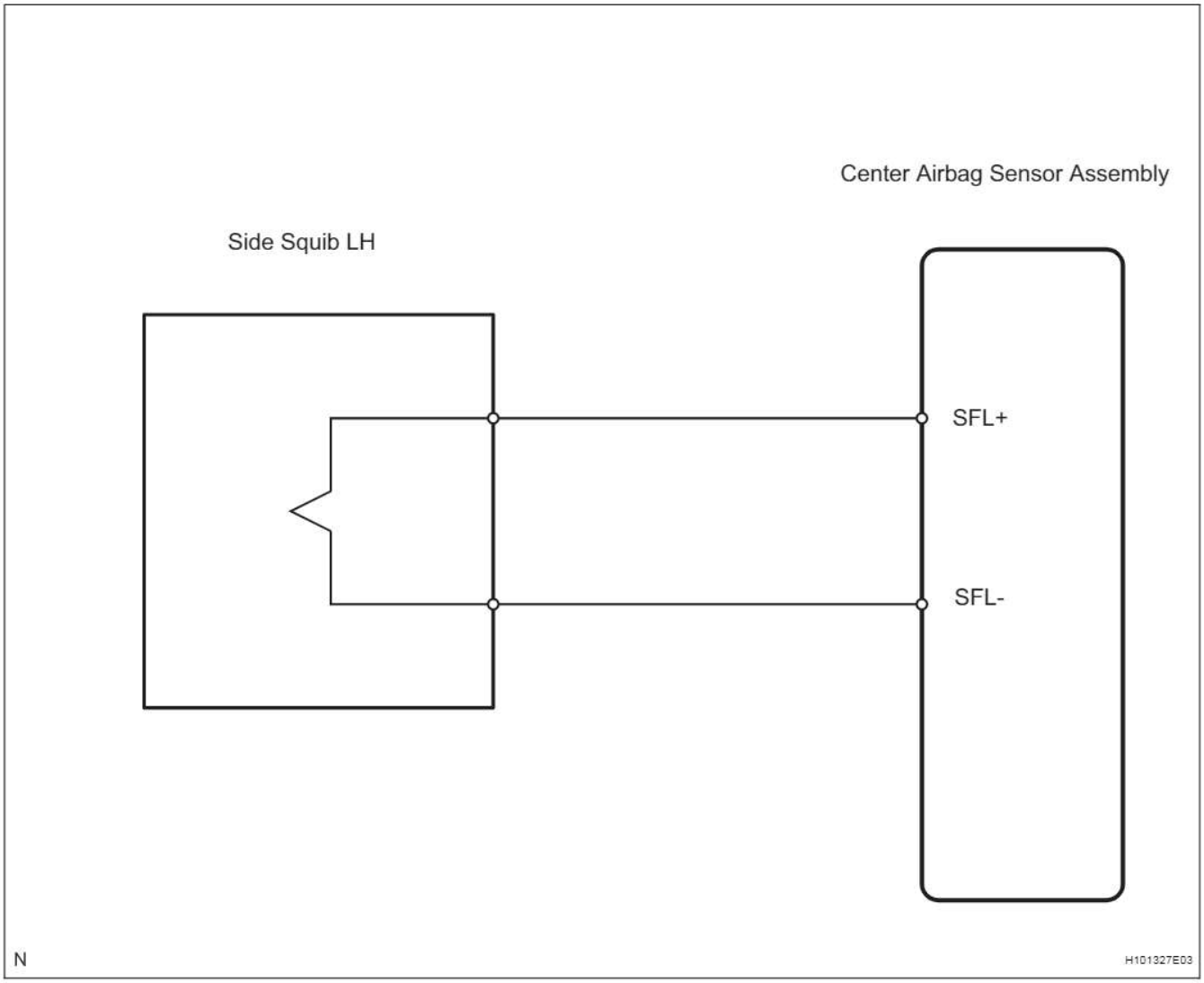
DTC B0118/46 is recorded when a B+ short is detected in the side squib LH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0118/46 | • Short in side squib LH circuit (to B+)<br>• Side squib LH malfunction<br>• Center airbag sensor malfunction | • Front seat side airbag assembly LH (Side squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

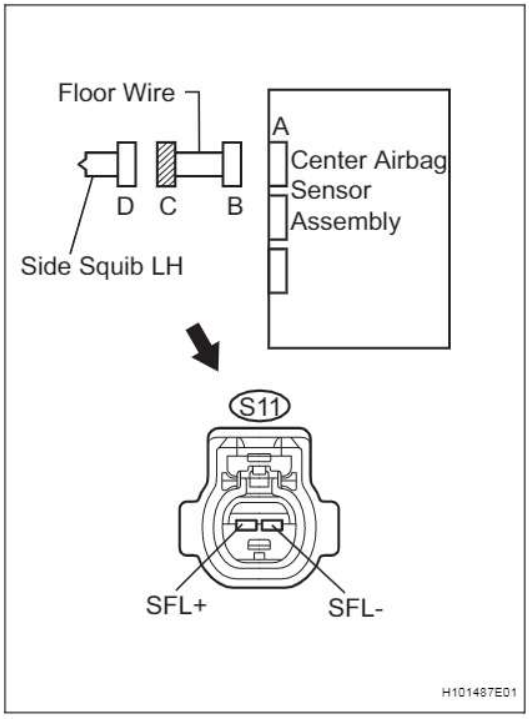
DTC B0118/46 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (SIDE SQUIB LH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat side airbag assembly LH (side squib LH).
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

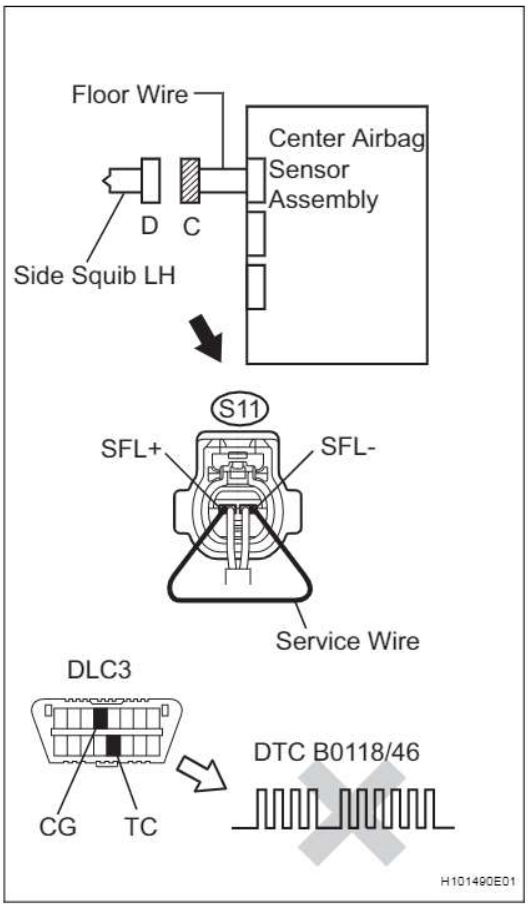
| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| S11-1 (SFL+) - Body ground | Ignition switch ON | Below 1 V |
| S11-2 (SFL-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

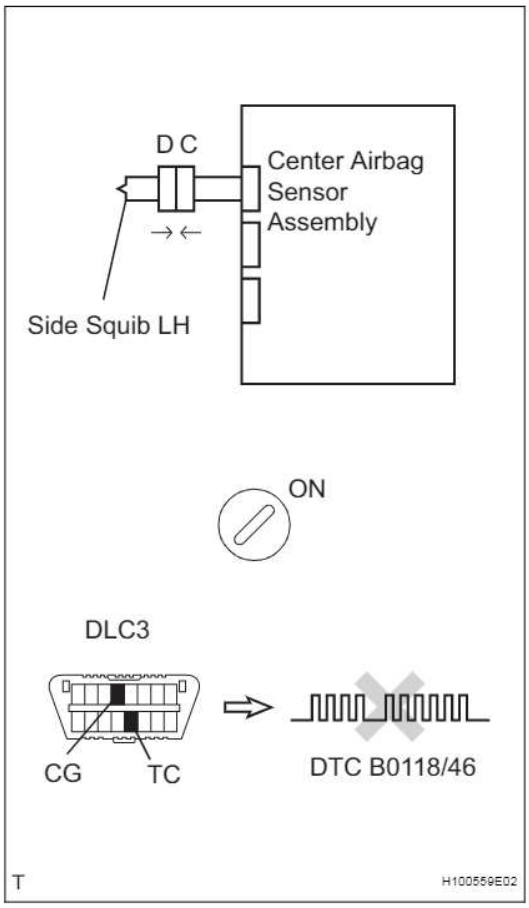



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using a service wire, connect terminals SFL+ and SFL- of the connector "C".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).
**OK:**
**DTC B0118/46 is not output.**
HINT:
Codes other than code B0118/46 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY LH (SIDE SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the from the connector "C".
(d) Connect the front side seat airbag assembly LH (side squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0118/46 is not output.**

HINT:

Codes other than code B0118/46 may be output at this time, but they are not relevant to this check.

NG → **REPLACE SEPARATE TYPE FRONT SEATBACK ASSEMBLY (SIDE SQUIB LH)**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B0121/26 | Seat Belt Buckle Switch RH Circuit Malfunction |
|---|---|---|

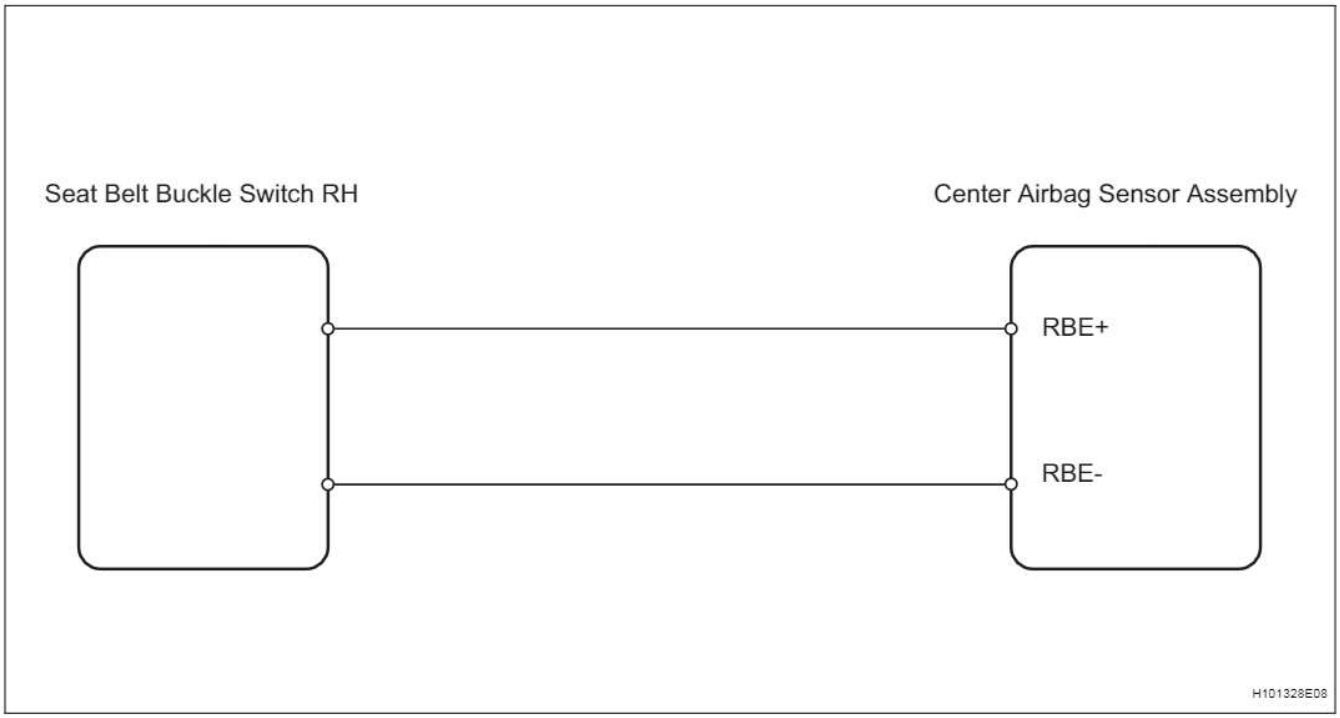
## DESCRIPTION



The seat belt buckle switch RH circuit consists of the center airbag sensor assembly and the front seat inner belt assembly RH (seat belt buckle switch RH). DTC B0121/26 is recorded when a malfunction is detected in the seat belt buckle switch RH circuit.

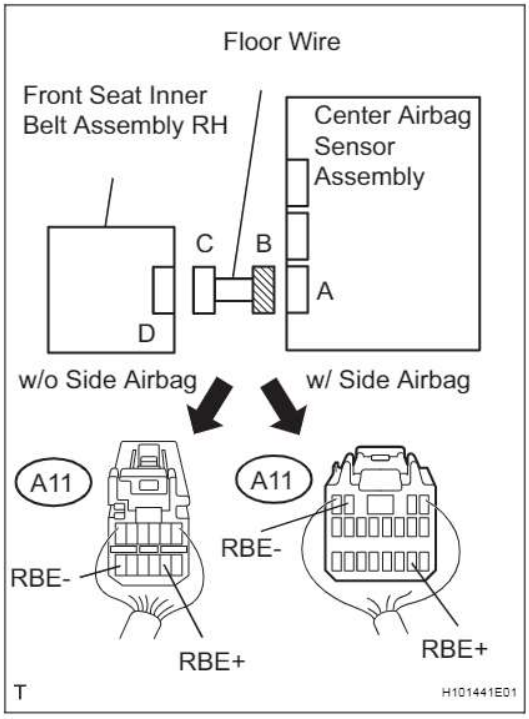
| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B0121/26 | • Short circuit in seat belt buckle switch RH wire harness (to ground)<br>• Short circuit in seat belt buckle switch RH wire harness (to B+)<br>• Open circuit in RBE+ wire harness or RBE- wire harness of front seat inner belt RH<br>• Seat belt buckle switch RH malfunction<br>• Center airbag sensor assembly malfunction | • Front seat inner belt assembly RH (seat belt buckle switch RH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (TO B+) |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor assembly and the front seat inner belt assembly RH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage:**

**w/o Side airbag:**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A11-8 (RBE+) - Body ground | Ignition switch ON | Below 1 V |
| A11-12 (RBE-) - Body ground | Ignition switch ON | Below 1 V |

**w/ Side airbag**

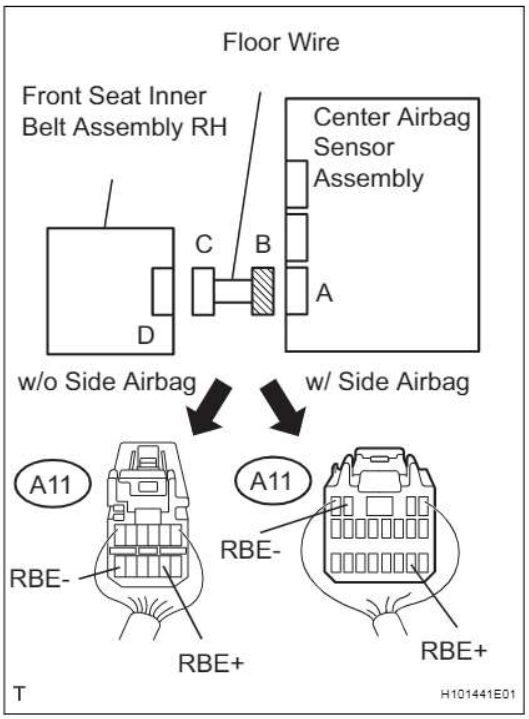
| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A11-14 (RBE+) - Body ground | Ignition switch ON | Below 1 V |
| A11-3 (RBE-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

## 2 CHECK FLOOR WIRE (TO GROUND)




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance according to the value(s) in the table below.

**Standard resistance:**
**w/o Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A11-8 (RBE+) - Body ground | 1 MΩ or higher |
| A11-12 (RBE-) - Body ground | 1 MΩ or higher |

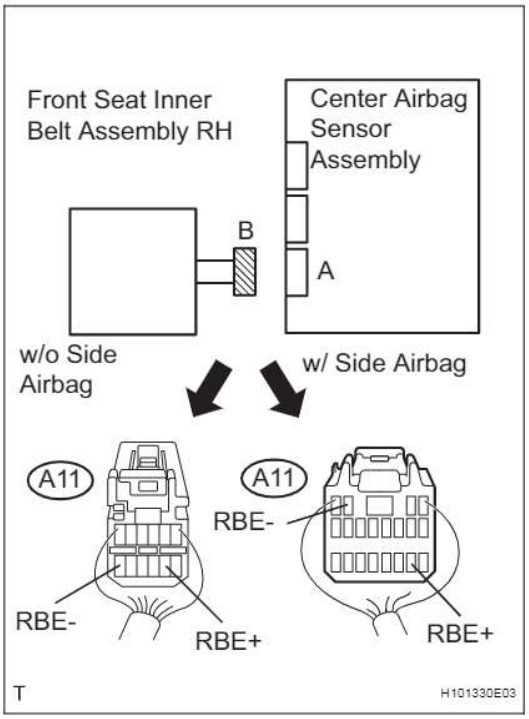
**w/ Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A11-14 (RBE+) - Body ground | 1 MΩ or higher |
| A11-3 (RBE-) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 3 CHECK FRONT SEAT INNER BELT ASSEMBLY RH




(a) Connect the connector to the front seat inner belt assembly RH.
(b) Unfasten the seat belt from the front seat inner belt RH.
(c) Measure the resistance according to the value(s) in the table below.

**Standard resistance:**
**w/o Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A11-8 (RBE+) - A11-12 (RBE-) | Seat belt unfastened | 100 to 500 Ω |

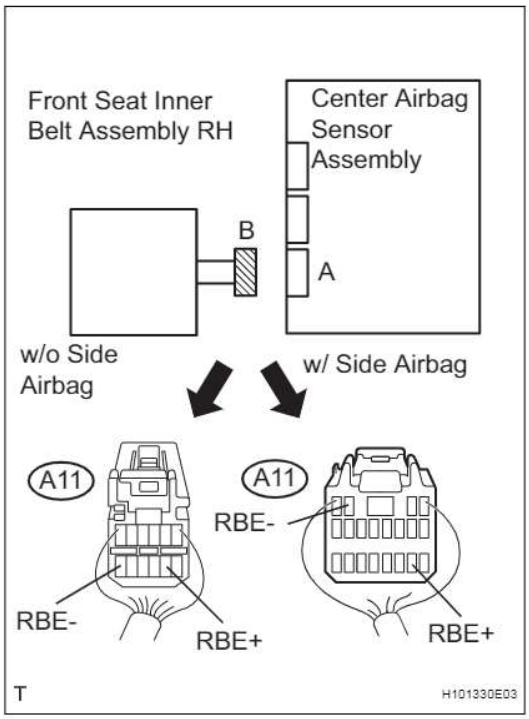
**w/ Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A11-14 (RBE+) - A11-3 (RBE-) | Seat belt unfastened | 100 to 500 Ω |

NG → **REPLACE FRONT SEAT INNER BELT ASSEMBLY RH**

OK

## 4 CHECK FRONT SEAT INNER BELT ASSEMBLY RH




(a) Fasten the seat belt to the front seat inner belt RH.
(b) Measure the resistance according to the value(s) in the table below.

**Standard resistance:**

**w/o Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A11-8 (RBE+) - A11-12 (RBE-) | Seat belt fastened | 1.0 to 1.6 kΩ |

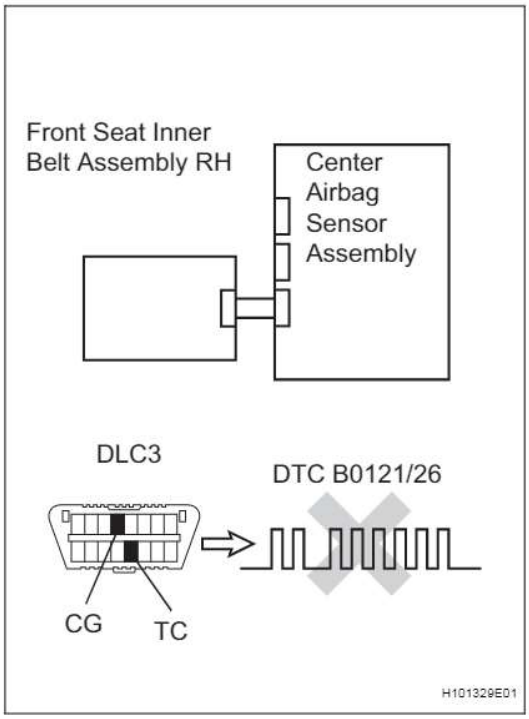
**w/ Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A11-14 (RBE+) - A11-3 (RBE-) | Seat belt fastened | 1.0 to 1.6 kΩ |

NG → **REPLACE FRONT SEAT INNER BELT ASSEMBLY RH**

OK

## 5 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connector to the center airbag sensor assembly.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the stored DTCs in the memory (see page RS-30).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-30).

**OK:**

**DTC B0121/26 is not output.**

HINT:

Codes other than code B0121/26 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

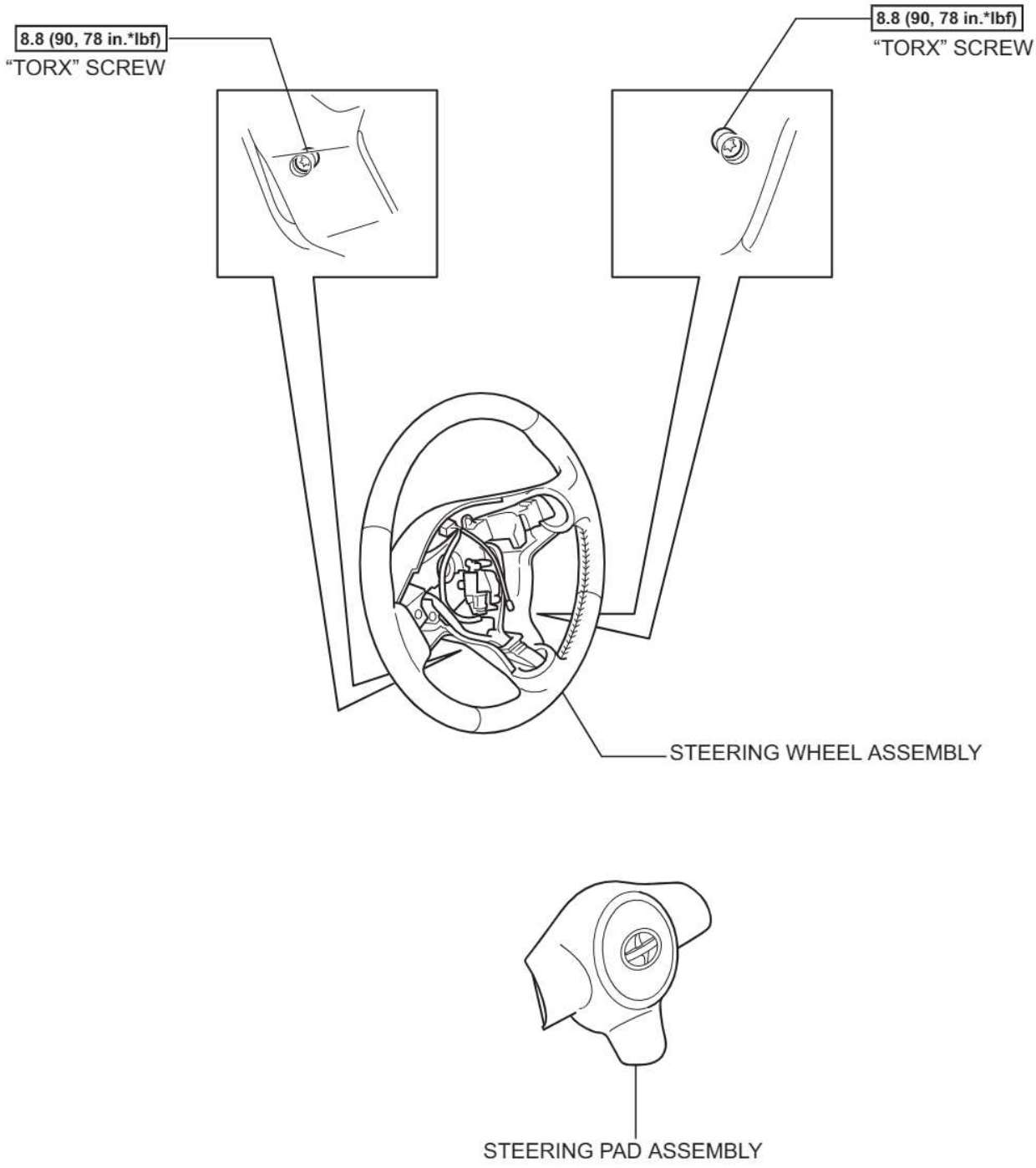
USE SIMULATION METHOD TO CHECK

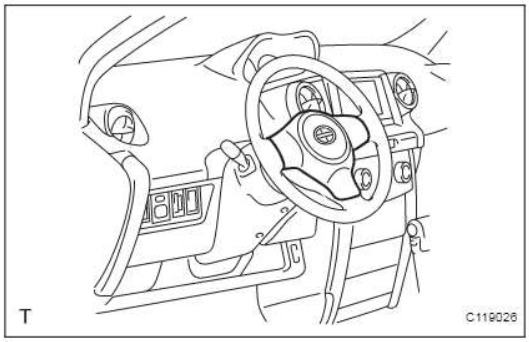
RS

# STEERING PAD

## COMPONENTS

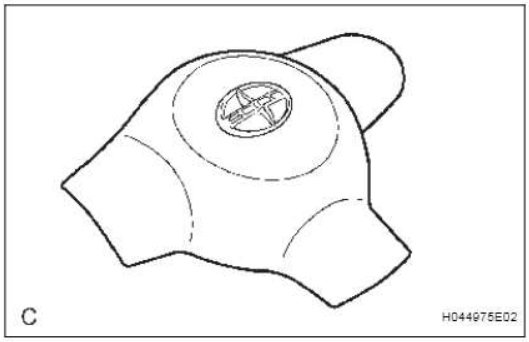
RS





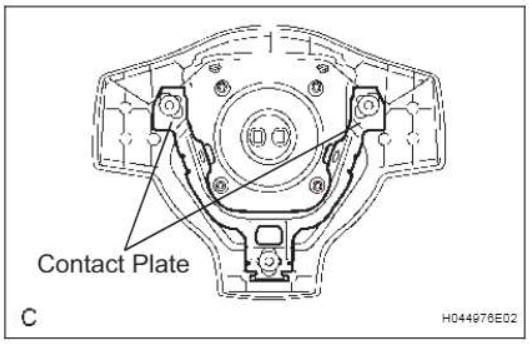

# ON-VEHICLE INSPECTION

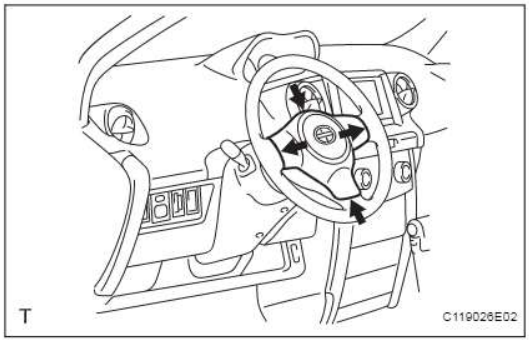
1. **CHECK STEERING PAD ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) With the steering pad (with airbag) installed on the vehicle, perform a visual check:
   Check for cuts, cracks or discoloration on the steering pad outer surface and in the grooved portion.
   If any of the defects mentioned above are present, replace the steering pad assembly with a new one.
   **CAUTION:**
   **For removal and installation of the steering pad assembly, be sure to follow the correct procedures.**




2. **CHECK STEERING PAD ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) With the steering pad (with airbag) removed from the vehicle, perform a visual check:
   - Check for cuts, cracks or discoloration on the steering pad outer surface and in the grooved portion.
   - Check for cuts and cracks in the wire harness, and chipping on the connectors.
   - Check for deformation on the steering wheel.
   - Check for deformation of the steering pad contact plates.

   If any of the defects mentioned above are present, replace the steering pad assembly with a new one.
   **CAUTION:**
   **For removal and installation of the steering pad assembly, be sure to follow the correct procedures.**
   HINT:
   - If the steering pad contact plates are deformed, never repair them. Always replace the steering pad assembly with a new one.
   - There should be no interference between the steering pad and steering wheel, and the clearance should be uniform all the way around when the new steering pad is installed on the steering wheel.



| DTC | B0126/27 | Seat Belt Buckle Switch LH Circuit Malfunction |
|---|---|---|

## DESCRIPTION

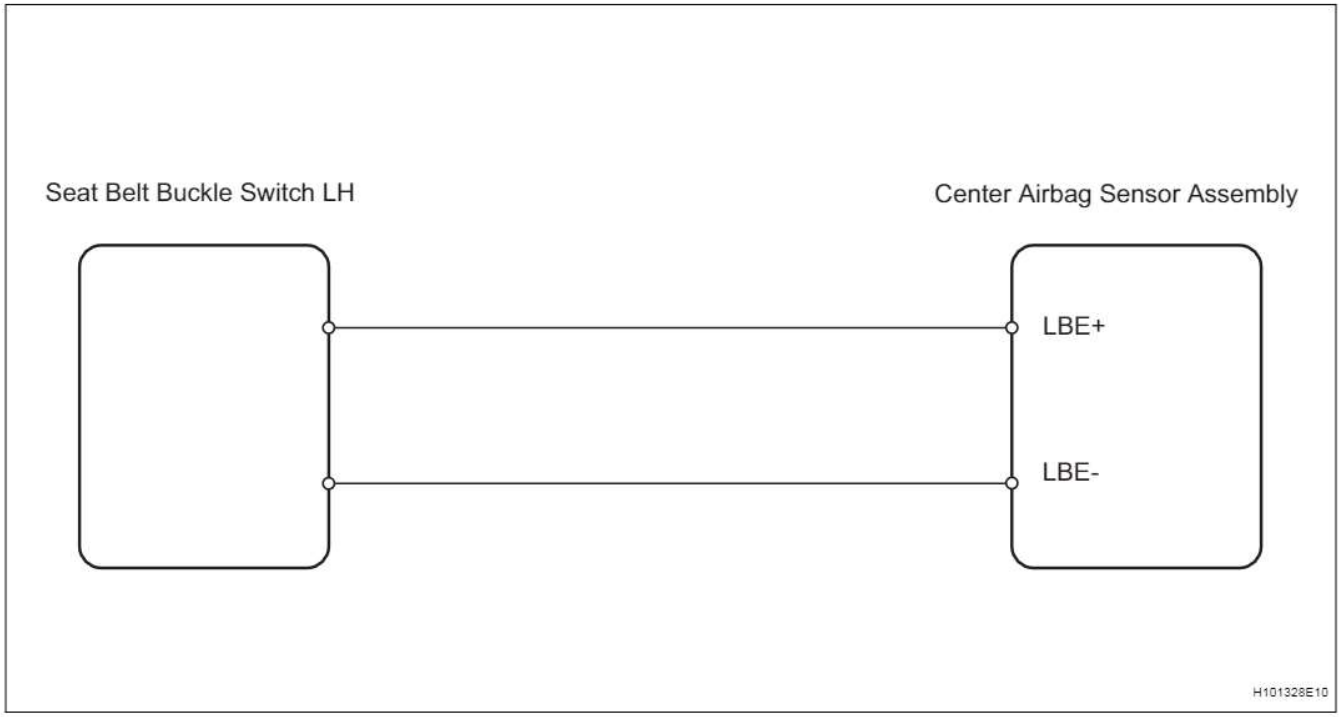
The seat belt buckle switch LH circuit consists of the center airbag sensor and the front seat inner belt LH (seat belt buckle switch LH).

DTC B0126/27 is recorded when a malfunction is detected in the seat belt buckle switch LH circuit.



| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0126/27 | • Short circuit in front seat inner belt LH wire harness (to ground)<br>• Short circuit in front seat inner belt LH wire harness (to B+)<br>• Open circuit in LBE+ wire harness or LBE- wire harness of front seat inner belt RH<br>• Front seat inner belt LH malfunction<br>• Center airbag sensor malfunction | • Front seat inner belt LH assembly (seat belt buckle switch LH)<br>• Center airbag sensor assembly<br>• Floor wire |

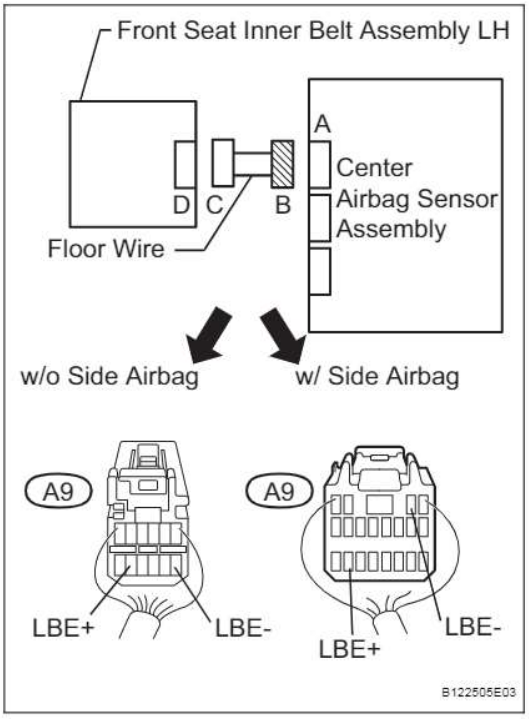
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK WIRE HARNESS (TO B+) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor assembly and the front seat inner belt assembly LH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage:**

**w/o Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-11 (LBE+) - Body ground | Ignition switch ON | Below 1 V |
| A9-7 (LBE-) - Body ground | Ignition switch ON | Below 1 V |

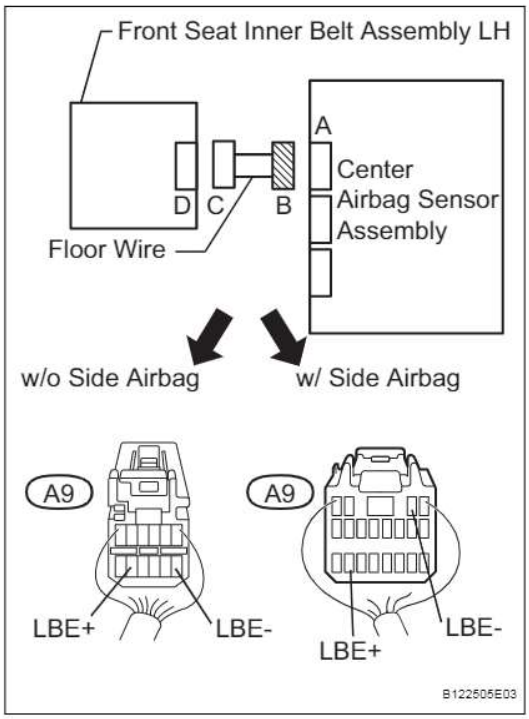
**w/ Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-19 (LBE+) - Body ground | Ignition switch ON | Below 1 V |
| A9-2 (LBE-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 2 CHECK WIRE HARNESS (TO GROUND)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance according to the value(s) in the table below.

**Standard resistance:**

**w/o Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-11 (LBE+) - Body ground | 1 MΩ or higher |
| A9-7 (LBE-) - Body ground | 1 MΩ or higher |

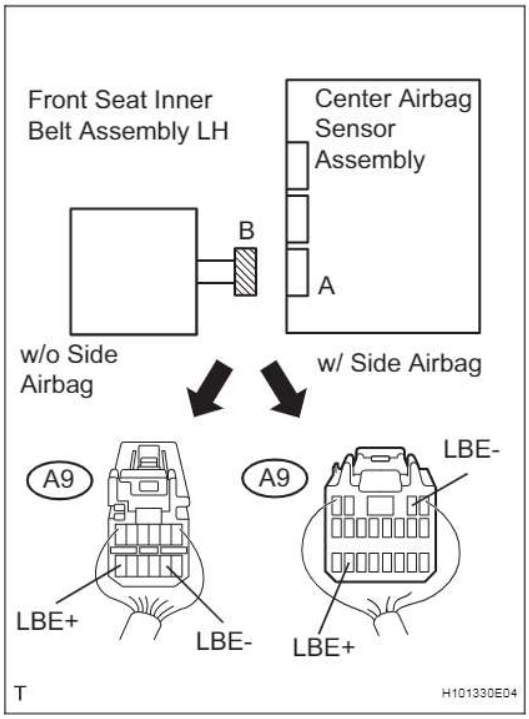
**w/ Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-19 (LBE+) - Body ground | 1 MΩ or higher |
| A9-2 (LBE-) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 3 CHECK FRONT SEAT INNER BELT ASSEMBLY LH




(a) Connect the connector of the front seat inner belt LH (seat belt buckle switch LH).
(b) Unfasten the seat belt from the front seat inner belt LH.
(c) Measure the resistance according to the value(s) in the table below.

**Standard resistance:**

**w/o Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-11 (LBE+) - A9-7 (LBE-) | Seat belt unfastened | 100 to 500 Ω |

**w/ Side airbag**

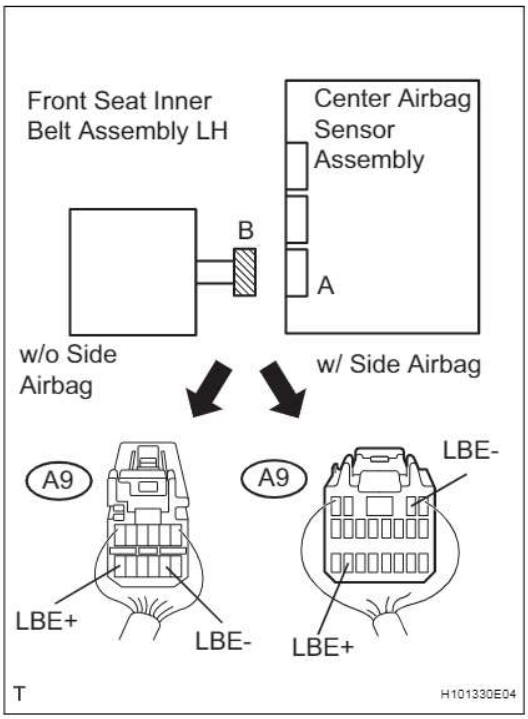
| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-19 (LBE+) - A9-2 (LBE-) | Seat belt unfastened | 100 to 500 Ω |

NG → **REPLACE FRONT SEAT INNER BELT ASSEMBLY LH**

OK

RS

## 4 CHECK FRONT SEAT INNER BELT ASSEMBLY LH




(a) Fasten the seat belt to the front seat inner belt LH.
(b) Measure the resistance according to the value(s) in the table below.

**Standard resistance:**

**w/o Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-11 (LBE+) - A9-7 (LBE-) | Seat belt fastened | 1.0 to 1.6 kΩ |

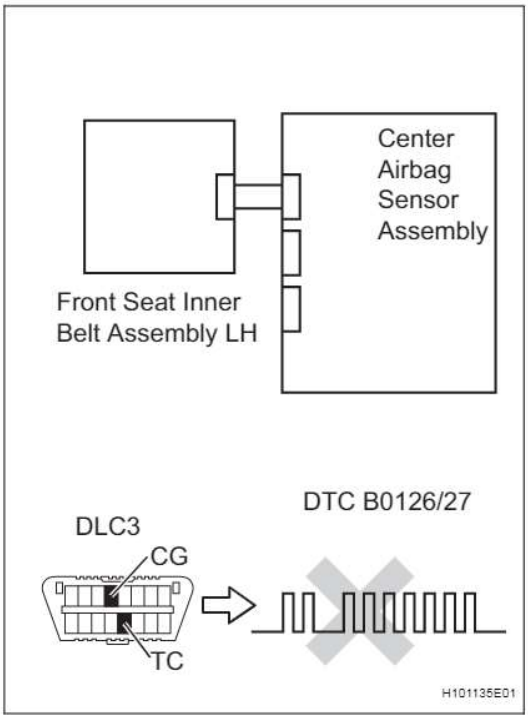
**w/ Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-19 (LBE+) - A9-2 (LBE-) | Seat belt fastened | 1.0 to 1.6 kΩ |

NG → **REPAIR OR REPLACE FRONT SEAT INNER BELT ASSEMBLY LH**

OK

## 5 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B01267/27 is not output.**

HINT:

Codes other than code B0126/27 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| USE SIMULATION METHOD TO CHECK |
|---|

| DTC | B0130/63 | Short in Front Pretensioner Squib RH Circuit |
|---|---|---|

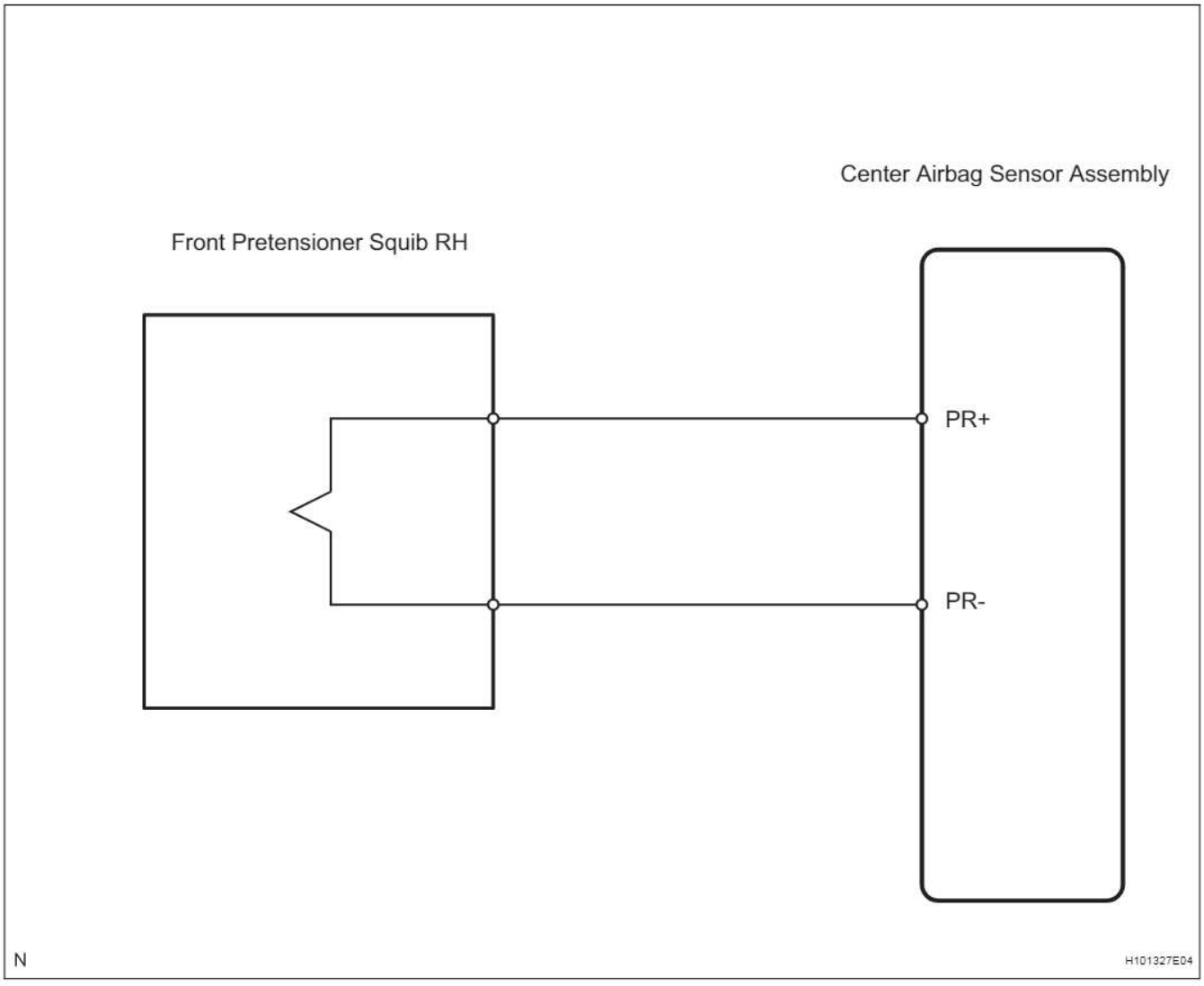
## DESCRIPTION

RS

The front pretensioner squib RH circuit consists of the center airbag sensor and the front seat outer belt assembly RH (seat belt pretensioner RH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0130/63 is recorded when a short is detected in the front pretensioner squib RH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0130/63 | • Short in front pretensioner squib RH circuit<br>• Front pretensioner squib RH malfunction<br>• Center airbag sensor malfunction | • Front seat outer belt assembly RH (front pretensioner squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

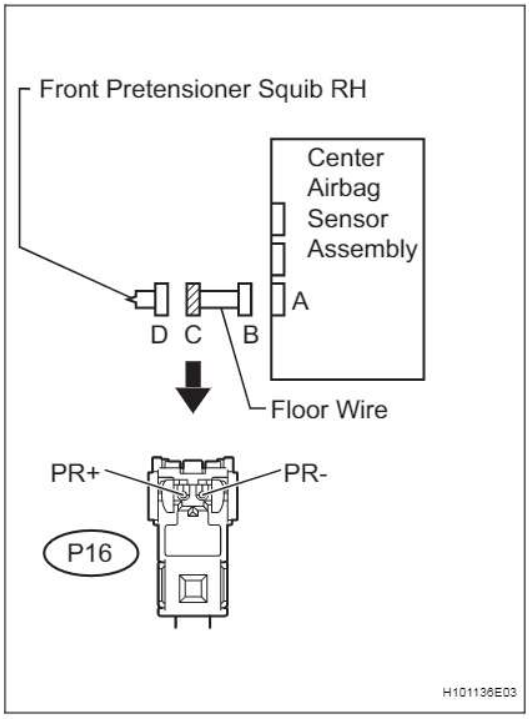
| 1 | CHECK CONNECTOR |
|---|---|

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connector from the front seat outer belt RH.
(d) Check that the floor wire connector (on the front seat outer belt RH side) is not damaged.
**OK:**
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

| 2 | CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT) |
|---|---|




(a) Disconnect the connector from the center airbag sensor.
(b) Release the activation prevention mechanism built into connector "B" (see page RS-18).
(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

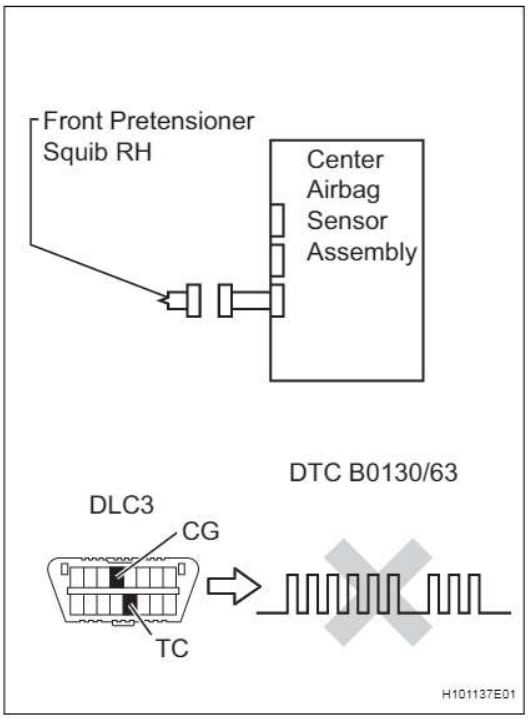
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| P16-1 (PR+) - P16-2 (PR-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

| 3 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B0130/63 is not output.**

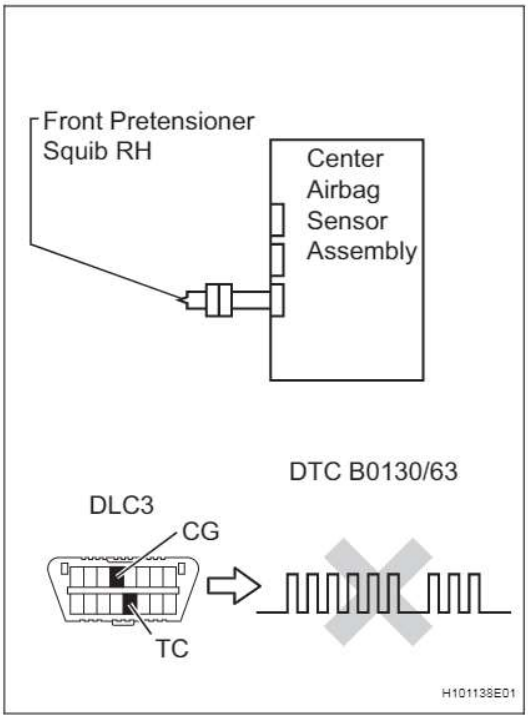
HINT:

Codes other than code B0130/63 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 4 | CHECK FRONT SEAT OUTER BELT ASSEMBLY RH (FRONT PRETENSIONER SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the front seat outer belt assembly RH (front pretensioner squib RH) connector.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B0130/63 is not output.**

HINT:

Codes other than code B0130/63 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH**

OK

| USE SIMULATION METHOD TO CHECK |
|---|

| DTC | B0131/64 | Open in Front Pretensioner Squib RH Circuit |
|---|---|---|

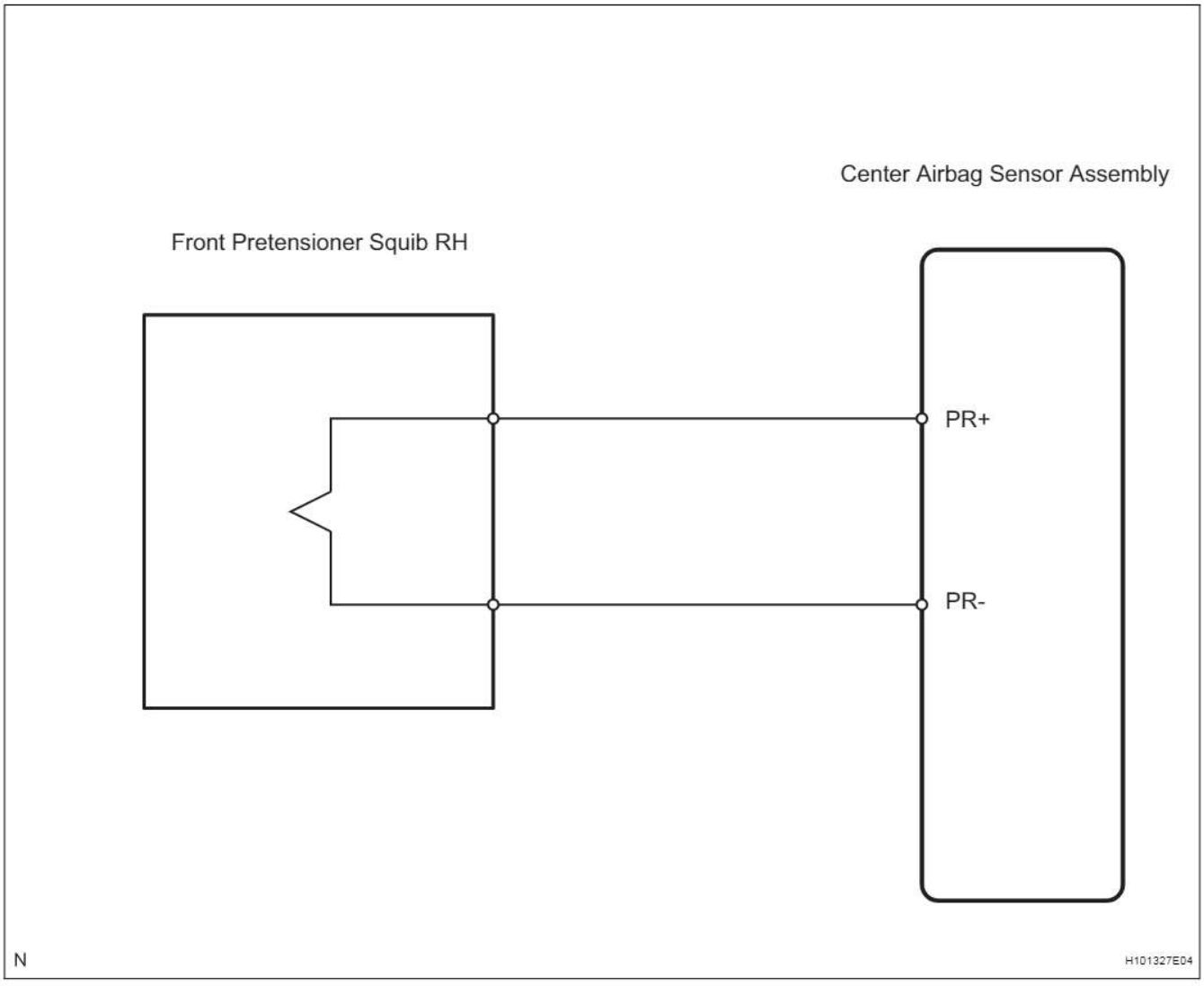
## DESCRIPTION

RS

The front pretensioner squib RH circuit consists of the center airbag sensor and the front seat outer belt assembly RH (seat belt pretensioner RH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0131/64 is recorded when an open is detected in the front pretensioner squib RH circuit.

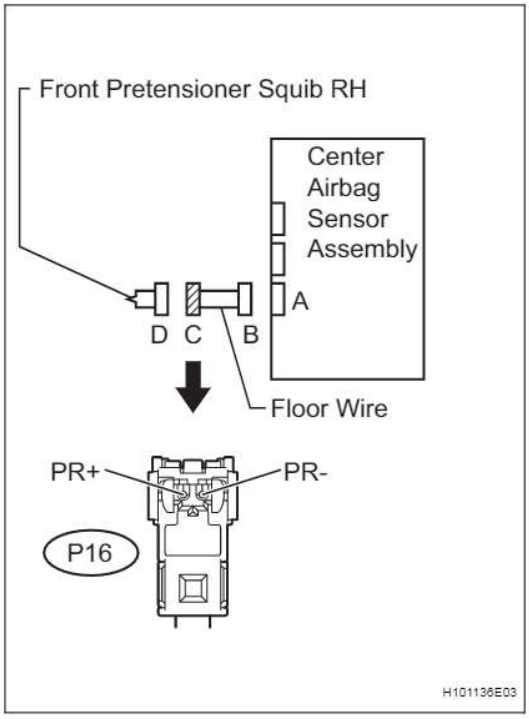
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0131/64 | • Open in front pretensioner squib RH circuit<br>• front pretensioner squib RH malfunction<br>• Center airbag sensor malfunction | • Front seat outer belt assembly RH (front pretensioner squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat outer belt RH.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

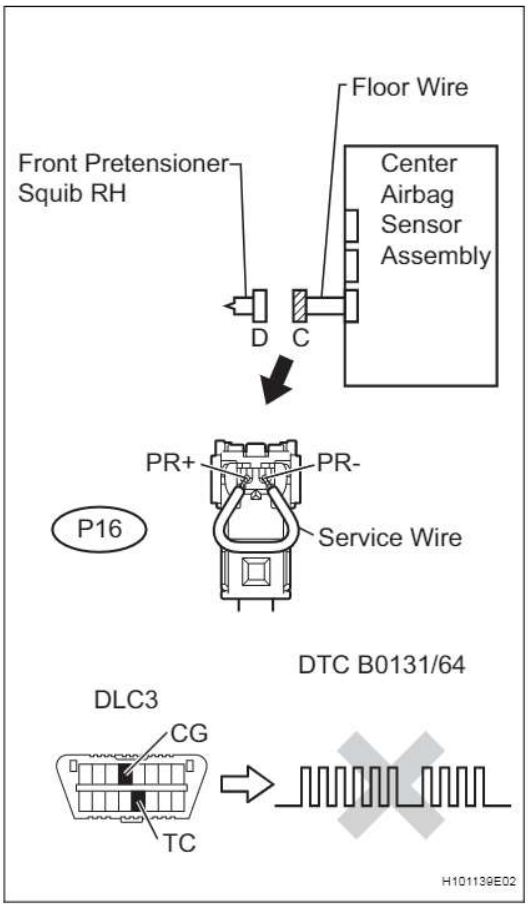
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| P16-1 (PR+) - P16-2 (pr-) | Below 1 Ω |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|



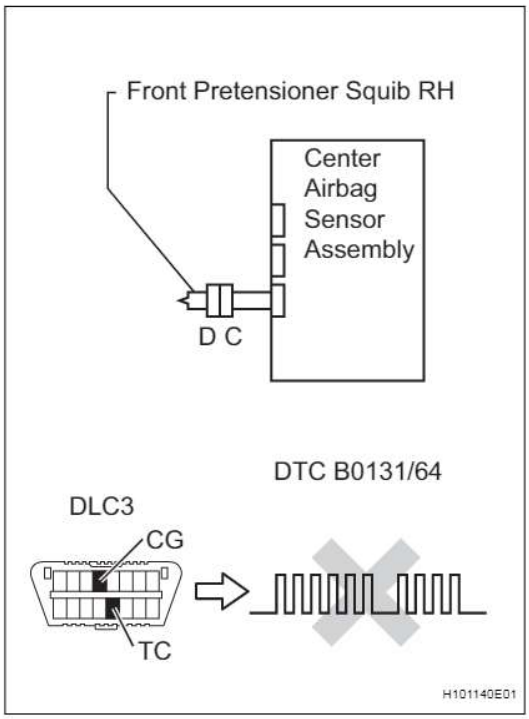

(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals PR+ and PR- of the connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0131/64 is not output.**
HINT:
Codes other than code B0131/64 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT OUTER BELT ASSEMBLY RH (FRONT PRETENSIONER SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat outer belt assembly RH (front pretensioner squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0131/64 is not output.**

HINT:

Codes other than code B0131/64 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH**

OK

**USE SIMULATION METHOD TO CHECK**

| DTC | B0132/61 | Short to GND in Front Pretensioner Squib RH Circuit |
|---|---|---|

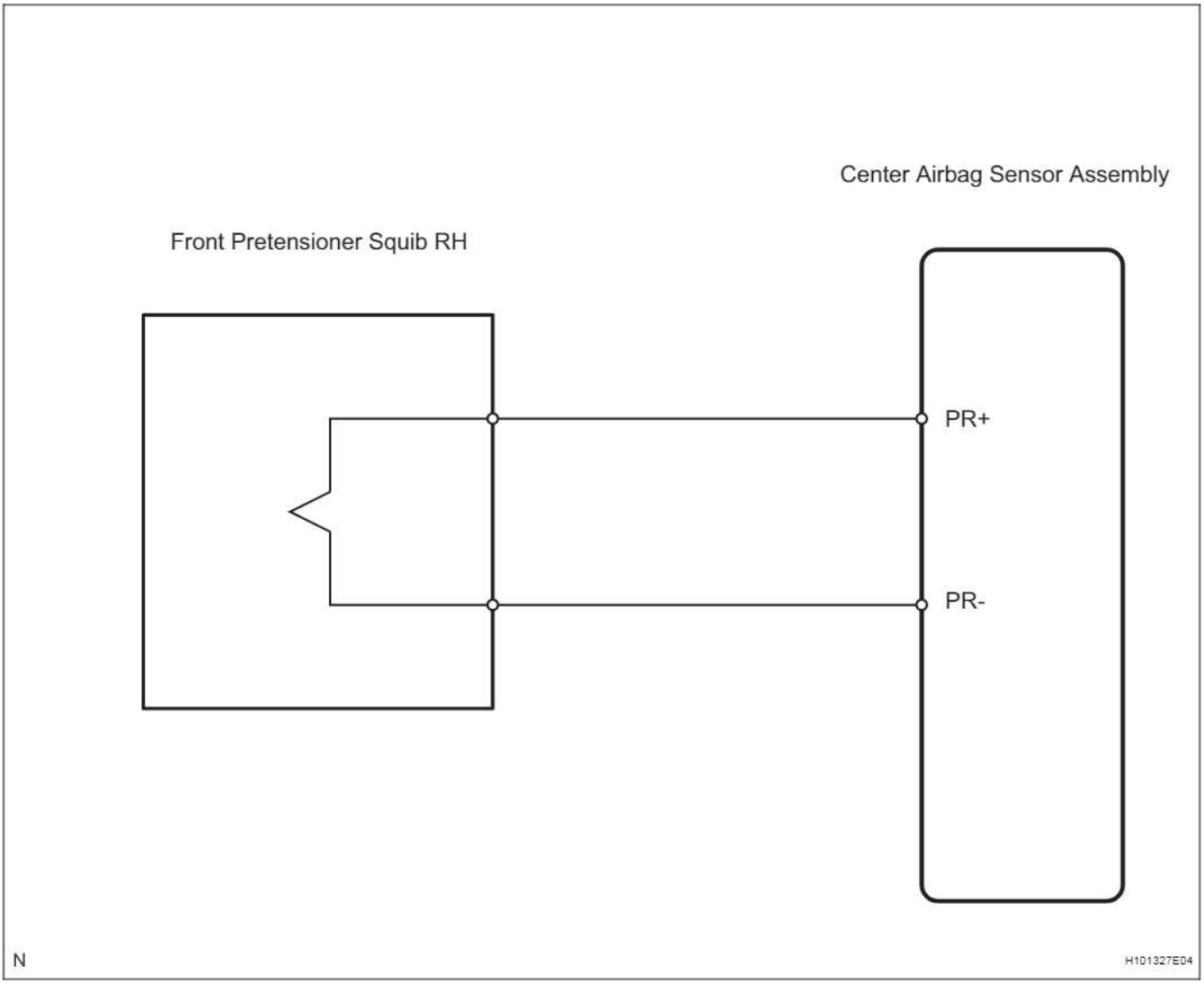
## DESCRIPTION

RS

The front pretensioner squib RH circuit consists of the center airbag sensor and the front seat outer belt assembly RH (seat belt pretensioner RH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0132/61 is recorded when a ground short is detected in the front pretensioner squib RH circuit.

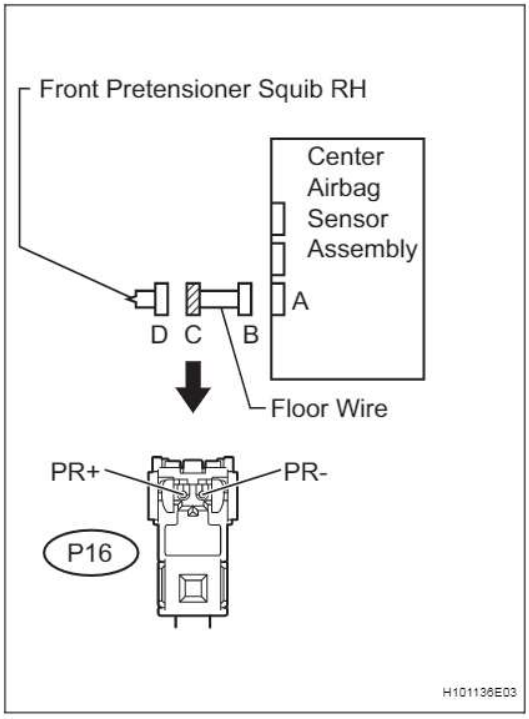
| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B0132/61 | • Short in front pretensioner squib RH circuit (to ground)<br>• Front pretensioner squib RH malfunction<br>• Center airbag sensor malfunction | • Front seat outer belt assembly RH (front pretensioner squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat outer belt RH.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

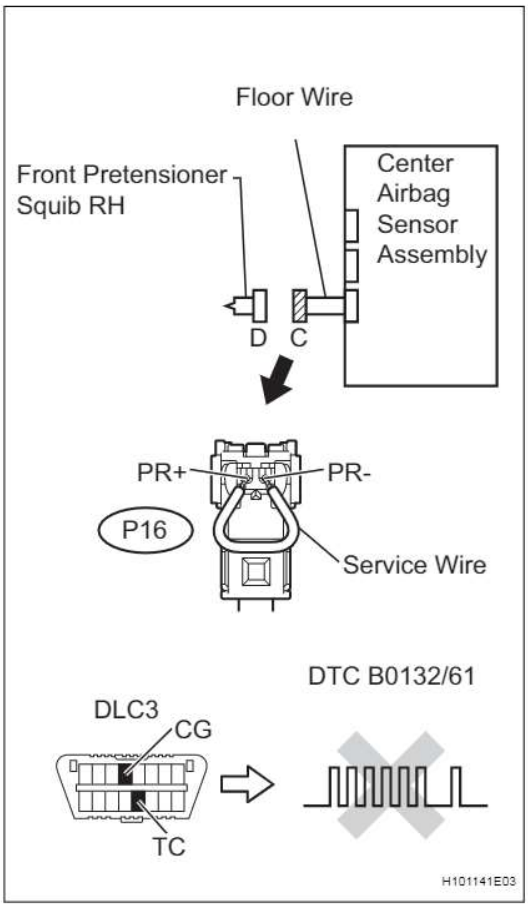
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| P16-1 (PR+) - Body ground | 1 MΩ or higher |
| P16-2 (PR-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|



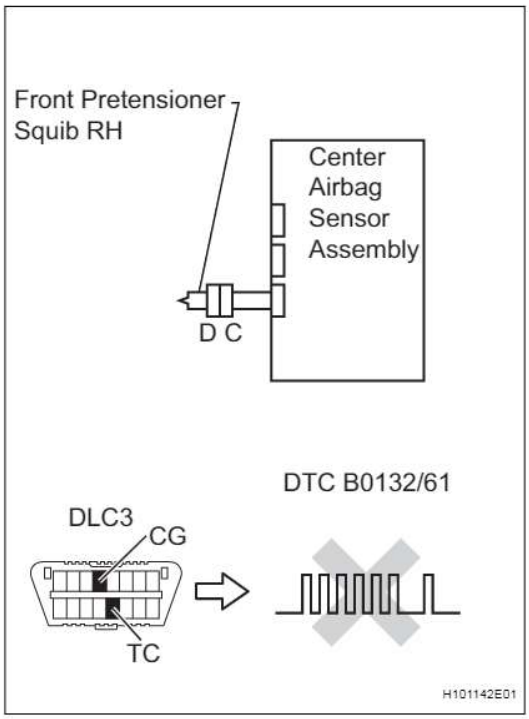

(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals PR+ and PR- of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0132/61 is not output.**
HINT:
Codes other than code B0132/61 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT OUTER BELT ASSEMBLY RH (FRONT PRETENSIONER SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat outer belt assembly RH (front pretensioner squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0132/61 is not output.**

HINT:

Codes other than code B0132/61 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B0133/62 | Short to B+ in Front Pretensioner Squib RH Circuit |
|---|---|---|

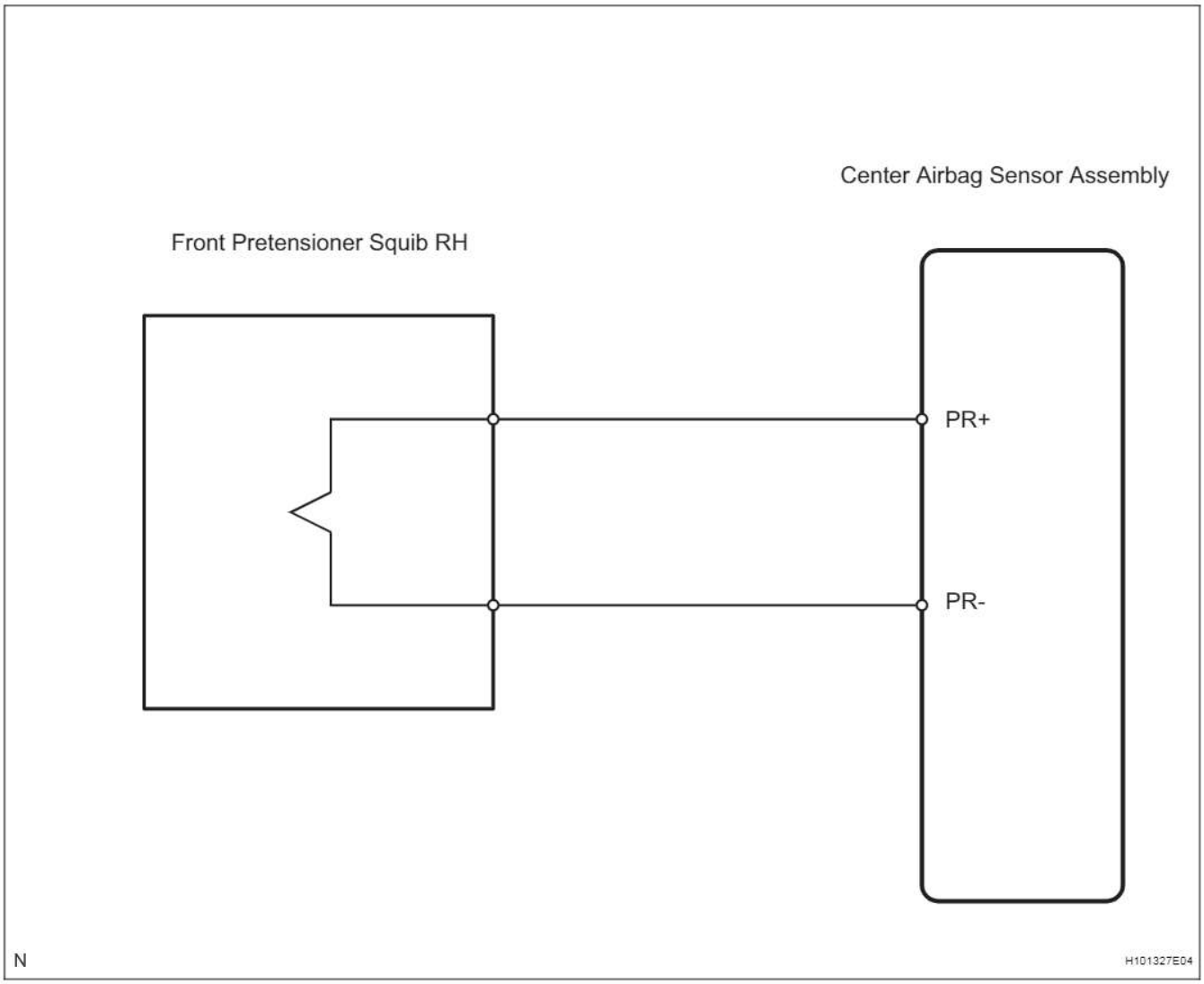
## DESCRIPTION

RS

The front pretensioner squib RH circuit consists of the center airbag sensor and the front seat outer belt assembly RH (seat belt pretensioner RH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0133/62 is recorded when a B+ short is detected in the front pretensioner squib RH circuit.

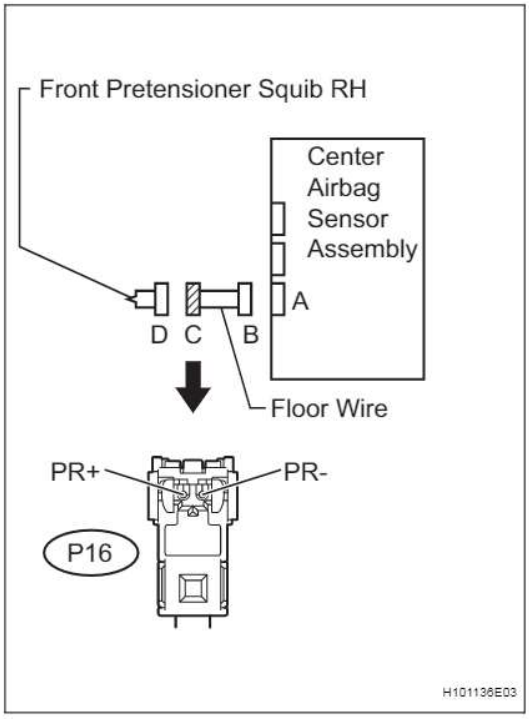
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0133/62 | • Short in front pretensioner squib RH circuit (to B+)<br>• Front pretensioner squib RH malfunction<br>• Center airbag sensor assembly malfunction | • Front seat outer belt assembly RH (front pretensioner squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat outer belt RH.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

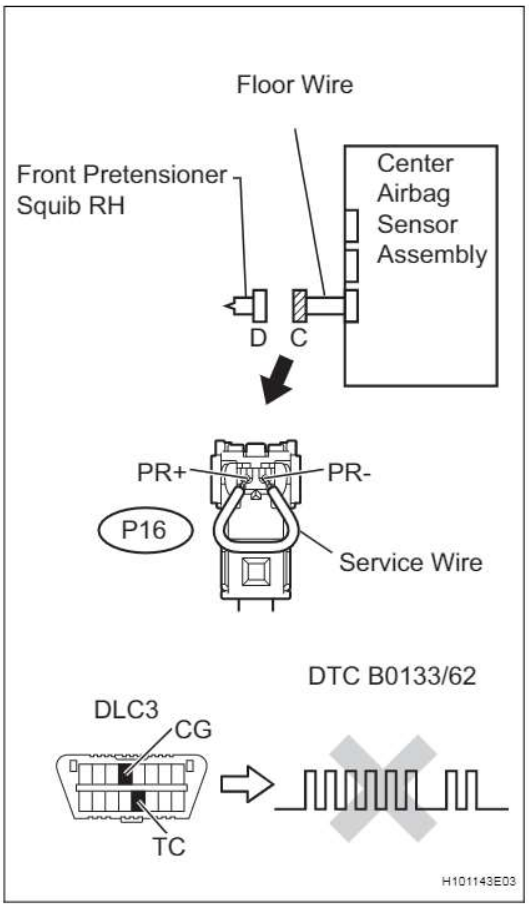
| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| PR+ - Body ground | Ignition switch ON | Below 1 V |
| PR- - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using a service wire, connect terminals PR+ and PR- of connector "C".

**NOTICE:**

- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted wire into the terminals of the connector when connecting.**

(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0133/62 is not output.**

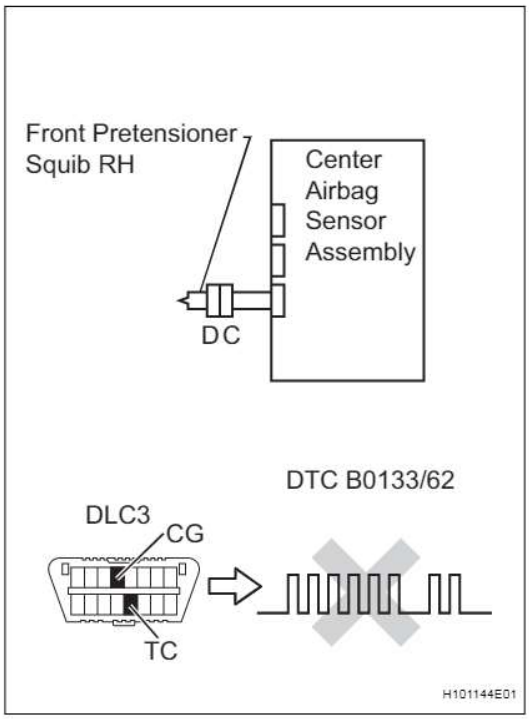
HINT:

Codes other than code B0133/62 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT OUTER BELT ASSEMBLY RH (FRONT PRETENSIONER SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat outer belt assembly RH (front pretensioner squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0133/62 is not output.**

HINT:

Codes other than code B0133/62 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSEMBLY RH**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B0135/73 | Short in Front Pretensioner Squib LH Circuit |
|---|---|---|

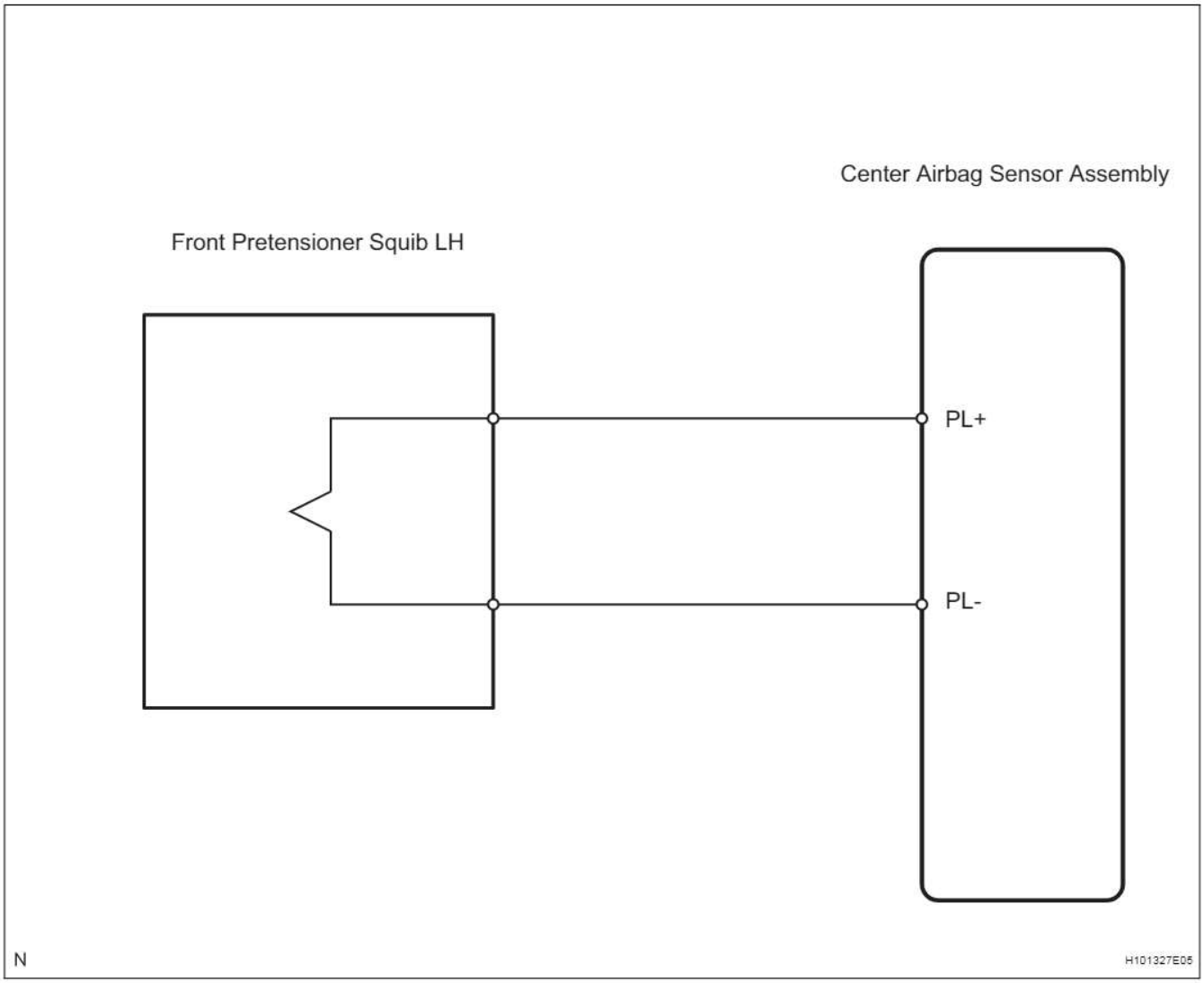
## DESCRIPTION

RS

The front pretensioner squib LH circuit consists of the center airbag sensor and the front seat outer belt assembly LH (seat belt pretensioner LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0135/73 is recorded when a short is detected in the front pretensioner squib LH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0135/73 | • Short in front pretensioner squib LH circuit<br>• Front pretensioner squib LH malfunction<br>• Center airbag sensor malfunction | • Front seat outer belt assembly LH (front pretensioner squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

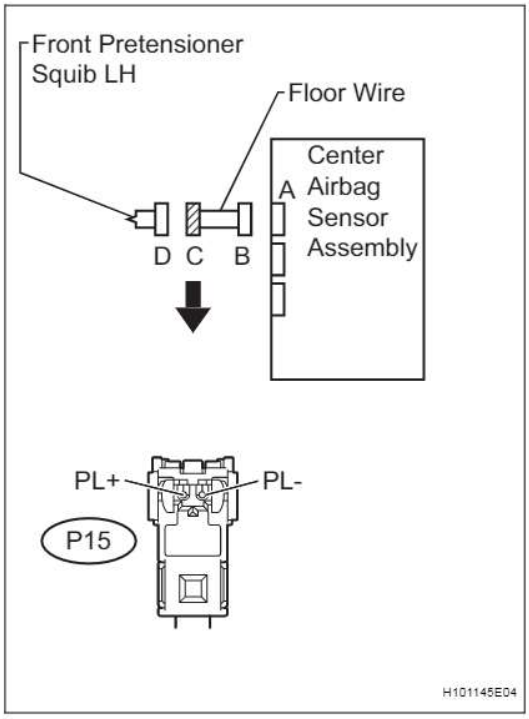
| 1 | CHECK CONNECTOR |
|---|---|

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connector from the front seat outer belt LH.
(d) Check that the floor wire connector (on the front seat outer belt LH side) is not damaged.
**NOTICE:**
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

| 2 | CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB LH CIRCUIT) |
|---|---|




(a) Disconnect the connector from the center airbag sensor.
(b) Release the activation prevention mechanism built into connector "B" (see page RS-18).
(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

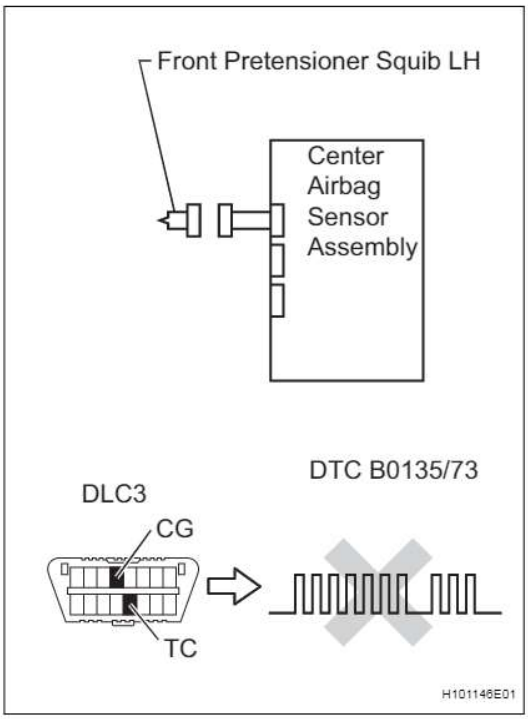
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| P15-1 (PL+) - P15-2 (PL-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

| 3 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B0135/73 is not output.**

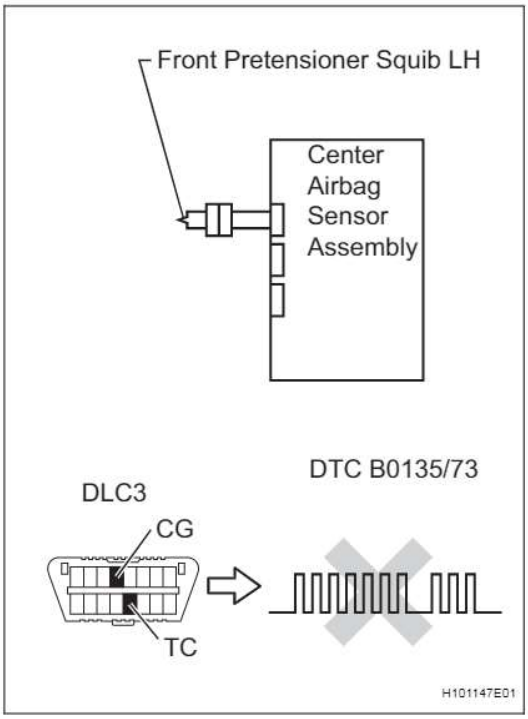
HINT:

Codes other than code B0135/73 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 4 | CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (FRONT PRETENSIONER SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the front seat outer belt assembly LH (front pretensioner squib LH) connector.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B0135/73 is not output.**

HINT:

Codes other than code B0135/73 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMLY**

OK

| USE SIMULATION METHOD TO CHECK |
|---|

| DTC | B0136/74 | Open in Front Pretensioner Squib LH Circuit |
|---|---|---|

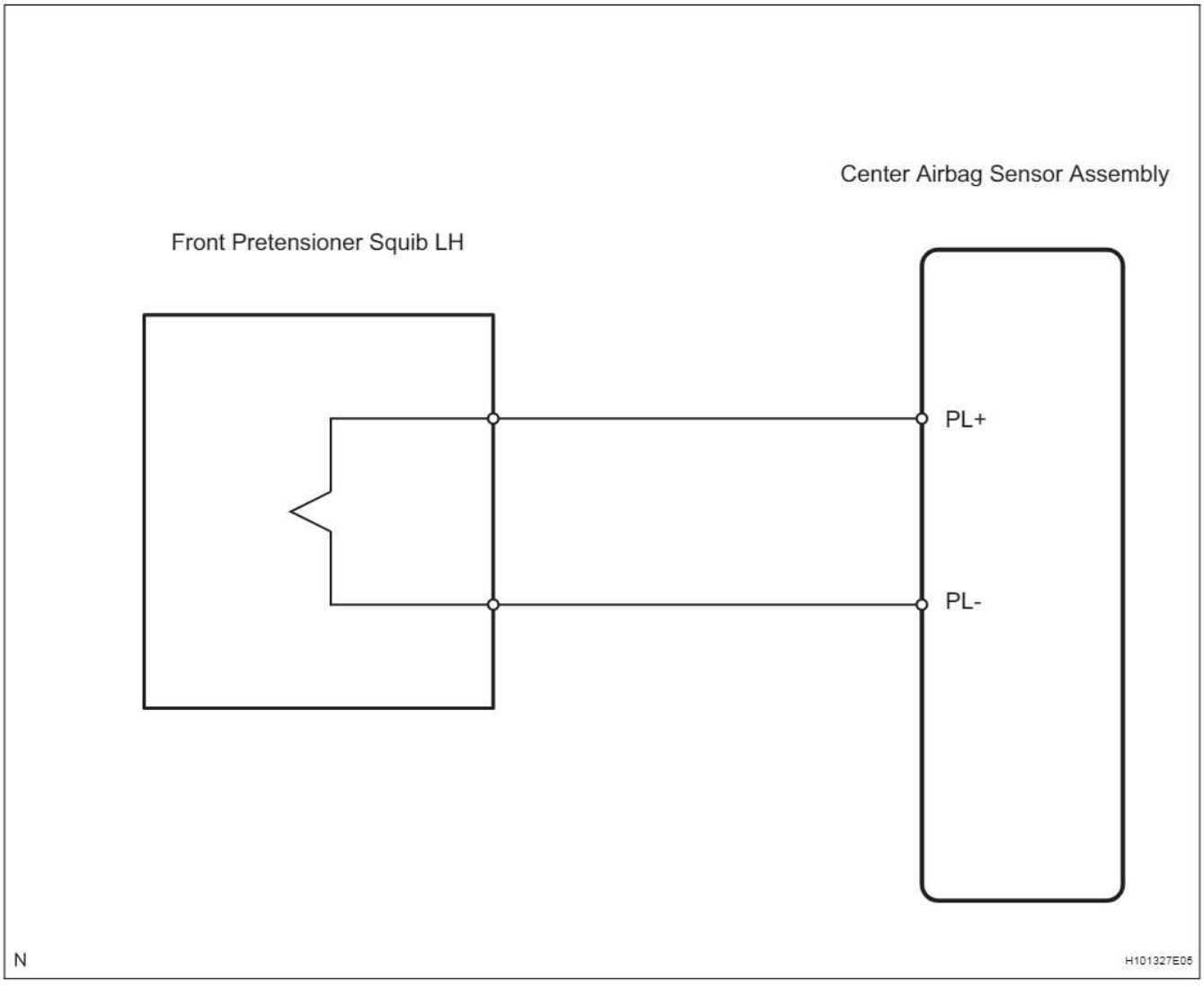
## DESCRIPTION

RS

The front pretensioner squib LH circuit consists of the center airbag sensor and the front seat outer belt assembly LH (seat belt pretensioner LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0136/74 is recorded when an open is detected in the front pretensioner squib LH circuit.

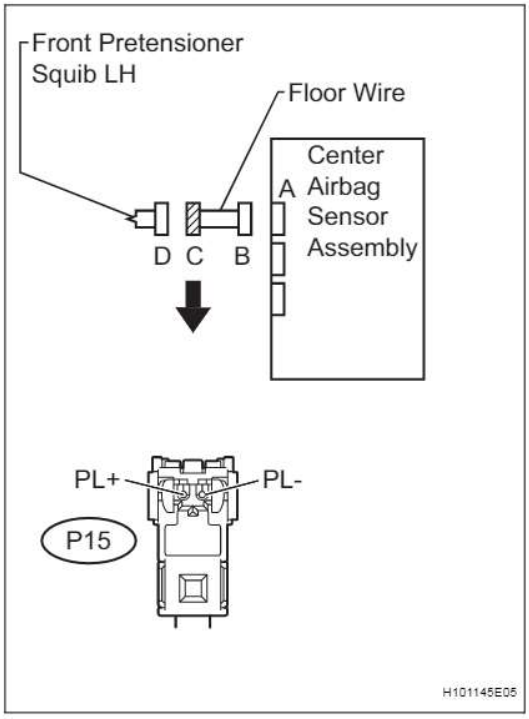
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0136/74 | • Open in front pretensioner squib LH circuit<br>• Front pretensioner squib LH malfunction<br>• Center airbag sensor malfunction | • Front seat outer belt assembly LH (front pretensioner squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB LH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat outer belt LH.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

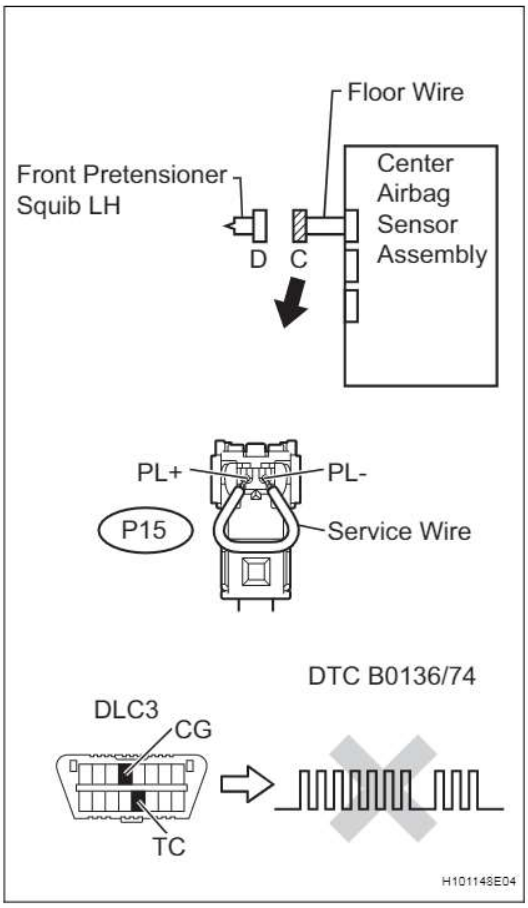
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| P15-1 (PL+) - P15-2 (PL-) | Below 1 Ω |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|



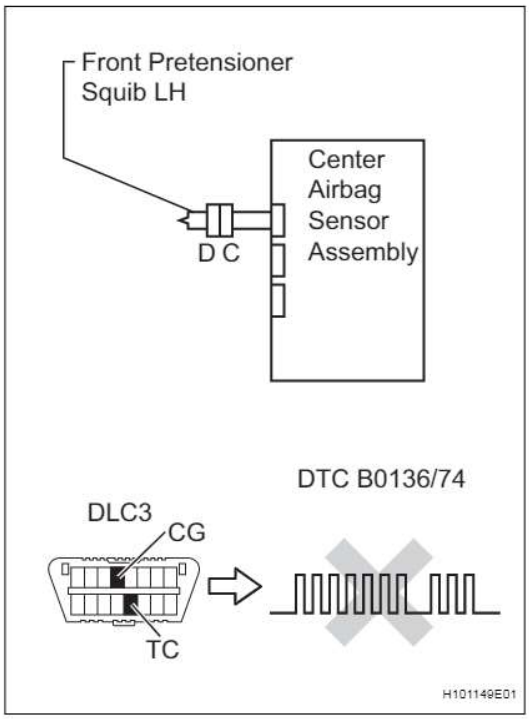

(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals PL+ and PL- of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0136/74 is not output.**
HINT:
Codes other than code B0136/74 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (FRONT PRETENSIONER SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from connector "C".
(d) Connect the front seat outer belt assembly LH (front pretensioner squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0136/74 is not output.**

HINT:

Codes other than code B0136/74 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH**

OK

**USE SIMULATION METHOD TO CHECK**

| DTC | B0137/71 | Short to GND in Front Pretensioner Squib LH Circuit |
|---|---|---|

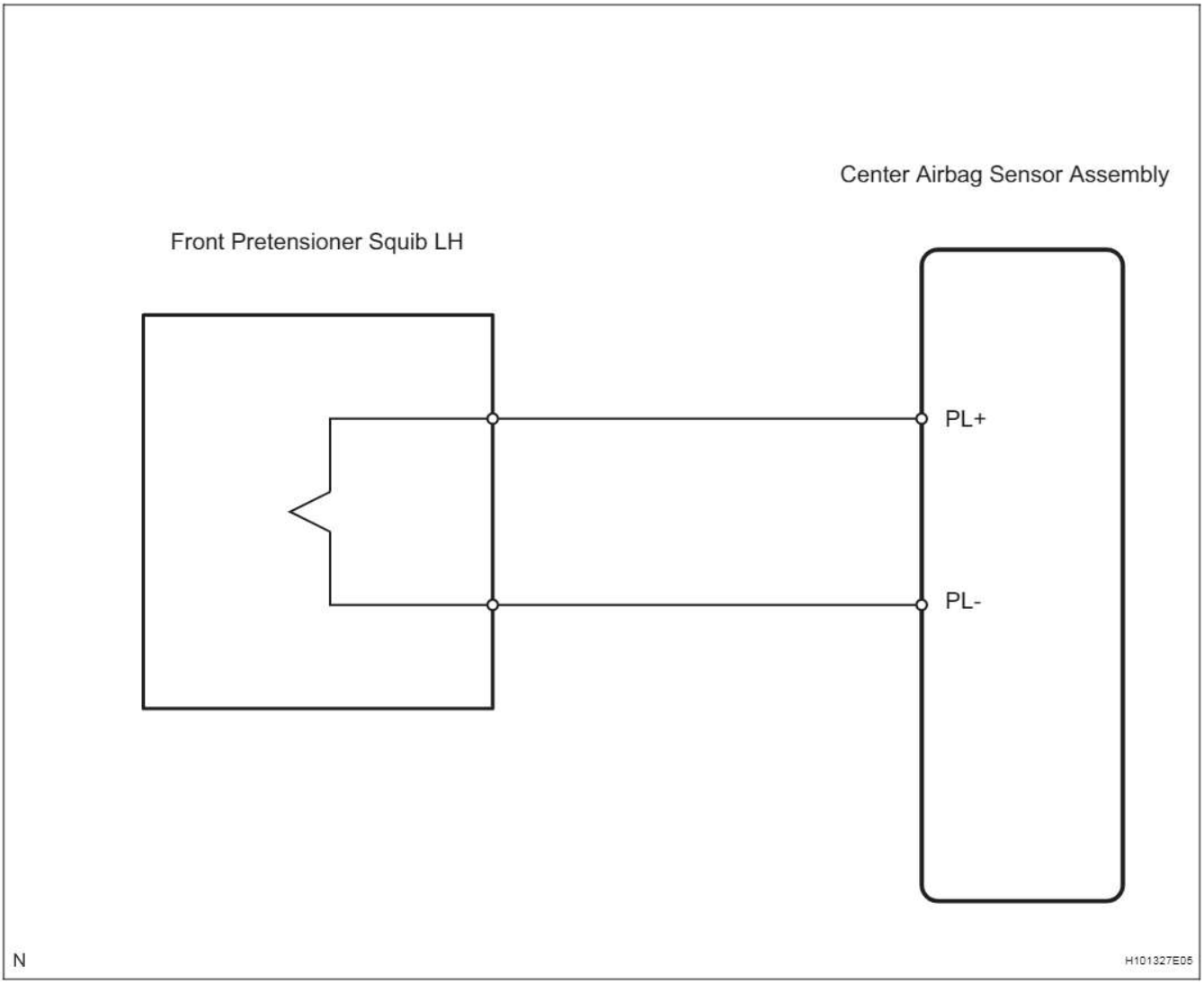
## DESCRIPTION

RS

The front pretensioner squib LH circuit consists of the center airbag sensor and the front seat outer belt assembly LH (seat belt pretensioner LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0137/71 is recorded when a ground short is detected in the front pretensioner squib LH circuit.

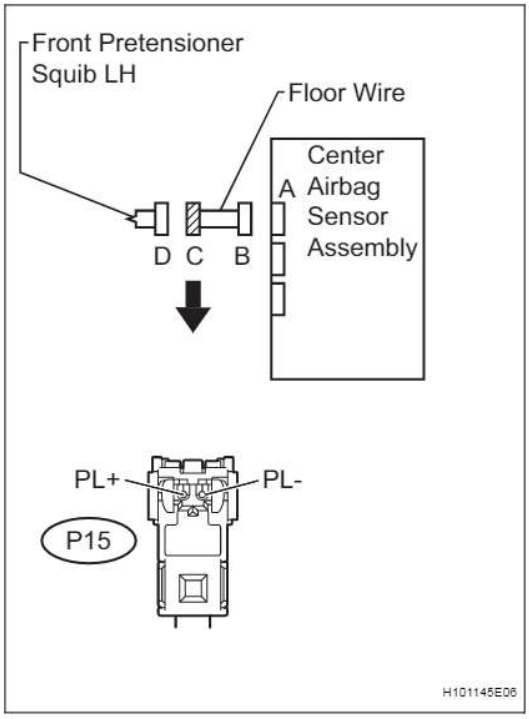
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0137/71 | • Short in front pretensioner squib LH circuit (to ground)<br>• Front pretensioner squib LH malfunction<br>• Center airbag sensor malfunction | • Front seat outer belt assembly LH (front pretensioner squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB LH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat outer belt LH.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

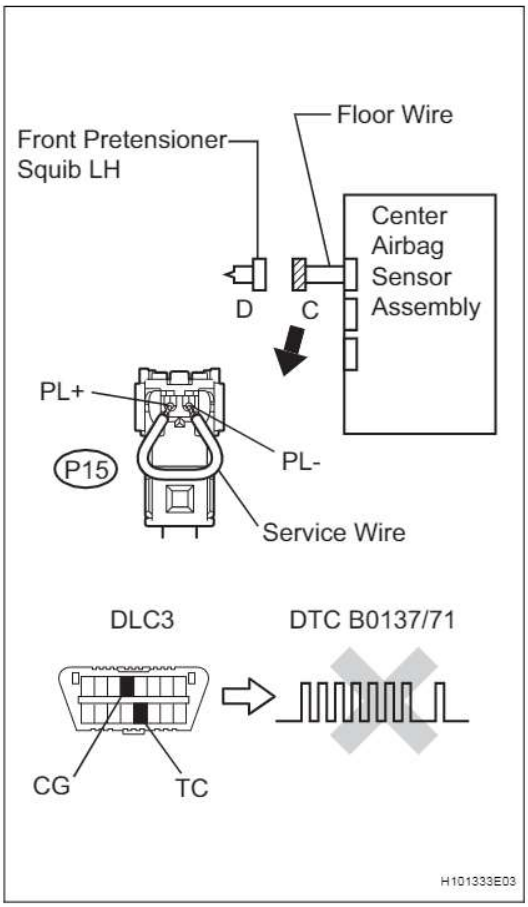
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| P15-1 (PL+) - Body ground | 1 MΩ or higher |
| P15-2 (PL-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|



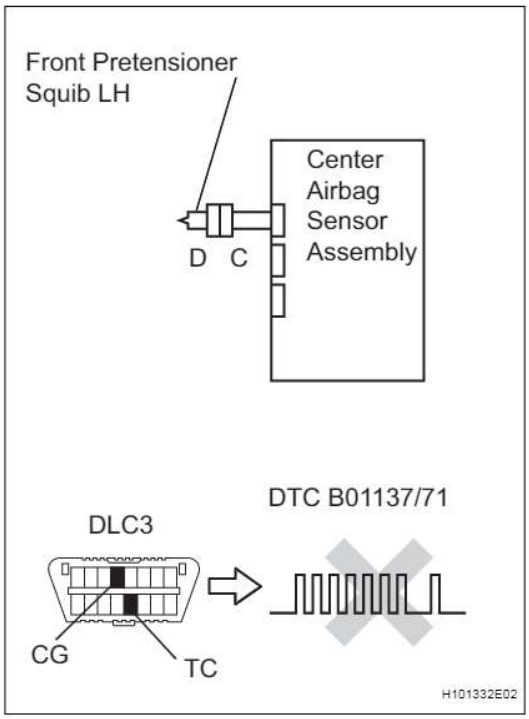

(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals PL+ and PL- of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0137/71 is not output.**
HINT:
Codes other than code B0137/71 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (FRONT PRETENSIONER SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat outer belt LH (front pretensioner squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0137/71 is not output.**

HINT:

Codes other than code B0137/71 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH**

OK ↓

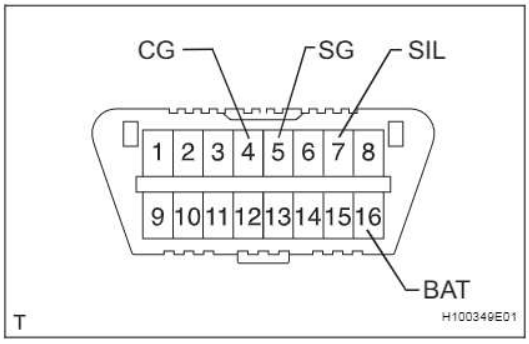
| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK ↓

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| Terminal No. | Symbol | Destination |
|---|---|---|
| A10-28 | E2 | Ground |
| A9-2 | LBE- | Front Seat Inner Belt Assembly LH |
| A9-3 | LSP- | Seat Position Airbag Sensor |
| A9-4 | LSP+ | Seat Position Airbag Sensor |
| A9-7 | PL- | Front Seat Outer Belt Assembly LH (Squib) |
| A9-8 | PL+ | Front Seat Outer Belt Assembly LH (Squib) |
| A9-9 | ICL+ | Curtain Shield Airbag Assembly LH (Squib) |
| A9-10 | ICL- | Curtain Shield Airbag Assembly LH (Squib) |
| A9-11 | SFL- | Front Seat Side Airbag Assembly LH (Squib) |
| A9-12 | SFL+ | Front Seat Side Airbag Assembly LH (Squib) |
| A9-16 | BBL+ | Side Airbag Sensor Assembly LH |
| A9-18 | BBL- | Side Airbag Sensor Assembly LH |
| A9-19 | LBE+ | Front Seat Inner Belt Assembly LH |
| A11-3 | RBE- | Front Seat Inner Belt Assembly RH |
| A11-5 | SFR+ | Front Seat Side Airbag Assembly RH (Squib) |
| A11-6 | SFR- | Front Seat Side Airbag Assembly RH (Squib) |
| A11-7 | ICR- | Curtain Shield Airbag Assembly RH (Squib) |
| A11-8 | ICR+ | Curtain Shield Airbag Assembly RH (Squib) |
| A11-9 | PR+ | Front Seat Outer Belt Assembly RH (Squib) |
| A11-10 | PR- | Front Seat Outer Belt Assembly RH (Squib) |
| A11-14 | RBE+ | Front Seat Inner Belt Assembly RH |
| A11-15 | BBR- | Side Airbag Sensor Assembly RH |
| A11-17 | BBR+ | Side Airbag Sensor Assembly RH |




# DIAGNOSIS SYSTEM

## 1. CHECK DLC3

| Symbols (Terminal No.) | Terminal Description | Condition | Specified Condition |
|---|---|---|---|
| SIL (7) - SG (5) | Bus "+" line | During transmission | Pulse generation |
| CG (4) - Body ground | Chassis ground | Always | Below 1 Ω |
| SG (5) - Body ground | Signal ground | Always | Below 1 Ω |
| BAT (16) - Body ground | Battery positive | Always | 11 to 14 V |

If the result is not as specified, the DLC3 may have a malfunction. Repair or replace the harness and connector.

HINT:

- Connect the cable of the intelligent tester to the DLC3, turn the ignition switch ON and attempt to use the tester. If the display indicates that a communication error has occurred, there is a problem either with the vehicle or with the tester.

- If communication is normal when the tester is connected to another vehicle, inspect the DLC3 of the original vehicle.
- If communication is still not possible when the tester is connected to another vehicle, the problem may be in the tester itself. Consult the Service Department listed in the tester's instruction manual.

**2. FUNCTION OF SRS WARNING LIGHT**

(a) Primary check

(1) Turn the ignition switch to the LOCK position. Wait at least 2 seconds, then turn the ignition switch to the ON position. The SRS warning light comes on for approximately 6 seconds and the diagnosis of the SRS airbag system (including the seat belt) is performed.

HINT:

If trouble is detected during the primary check, the SRS warning light remains on or blinks even after the primary check period (approximately 6 seconds) has elapsed.

(b) Constant check

(1) After the primary check, the center airbag sensor assembly activates the SRS airbag system and constantly monitors it for trouble .

HINT:

If malfunctions are detected during the constant check, the center airbag sensor functions as follows:

- The SRS warning light comes on or blinks.
- The SRS warning light comes on, and then goes off. This blinking pattern indicates the source voltage drop. The SRS warning light goes off 10 seconds after the source voltage returns to normal.

(c) Review

(1) When the airbag system is normal:

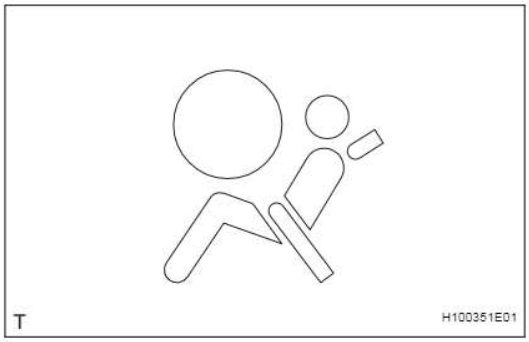
The SRS warning light comes on only during the primary check period (for approximately 6 seconds after the ignition switch is turned to the ON position).

(2) When the airbag system has trouble:

- The SRS warning light remains on or blinks even after the primary check period has elapsed.
- The SRS warning light goes off after the primary check, but comes on or blinks again during the constant check.
- The SRS warning light does not come on when turning the ignition switch from the LOCK to ON position.

HINT:

The center airbag sensor assembly keeps the SRS warning light ON if the airbag has been deployed.

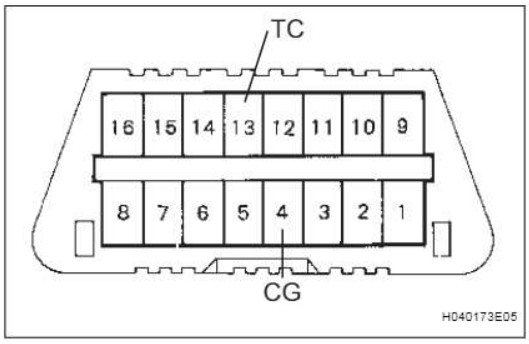



**3. SRS WARNING LIGHT CHECK**

(a) Turn the ignition switch to the ON position, and check that the SRS warning light comes on for approximately 6 seconds (primary check).

(b) Check that the SRS warning light goes off approximately 6 seconds after the ignition switch is turned to the ON position (constant check).
HINT:
When any of the following symptoms occurs, refer to the "Problem Symptoms Table" (See page RS-25).

- When the SRS warning light comes on occasionally even after the primary check period has elapsed, an open or short in the SRS warning light circuit is suspected.
- When the SRS warning light comes on even when the ignition switch is in the LOCK position, trouble in the power source or combination meter assembly is suspected.
- When the ignition switch is turned from the LOCK to ON position, the SRS warning light does not come on.




## DTC CHECK / CLEAR

**1. CHECK DTC (USING SST CHECK WIRE)**

(a) Check the DTCs (present trouble code).

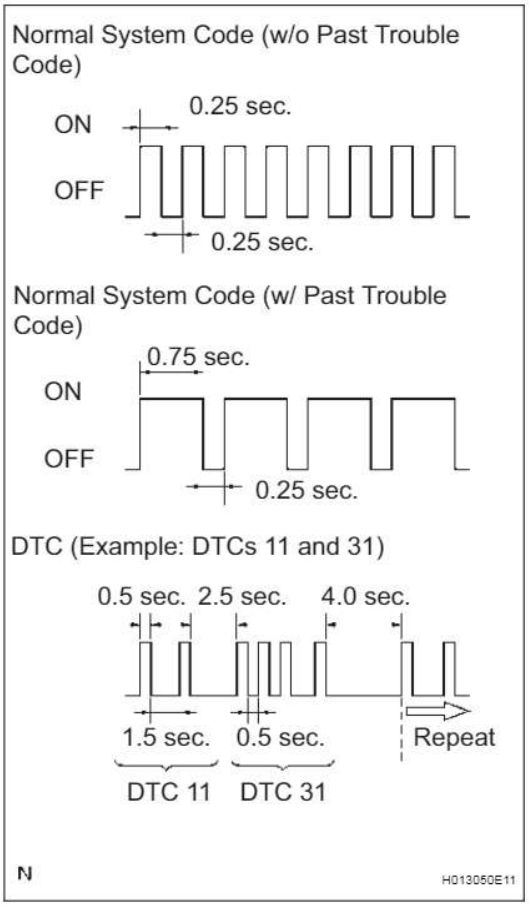
(1) Turn the ignition switch to the ON position, and wait for approximately 60 seconds.

(2) Using SST, connect terminals TC and CG of the DLC3.
**SST 09843-18040**
**NOTICE:**
**Connect the terminals to the correct positions to avoid a malfunction.**

(b) Output the DTCs (past trouble code).

(1) Using SST, connect terminals TC and CG of the DLC3.
**SST 09843-18040**
**NOTICE:**
**Connect the terminals to the correct positions to avoid a malfunction.**

(2) Turn the ignition switch to the ON position, and wait for approximately 60 seconds.




(c) Read the DTCs.

(1) Read the blinking patterns of the DTCs. Examples of the blinking patterns for a normal system code and DTCs 11 and 31 are shown in the illustration.

- Normal system code indication (w/o past trouble code)
  The light blinks twice per second.
- Normal system code indication (w/ past trouble code)
  When the past trouble code is stored in the center airbag sensor assembly, the light blinks only once per second.
- Trouble code indication
  The first blinking pattern indicates the first DTC. If there is more than 1 code, there will be a 2.5-second pause between each code. After all codes are shown, there will be a 4.0-second pause, and they all will be repeated.

HINT:

- If 2 or more malfunctions are found, the indication begins with the smaller numbered code.
- If DTCs are indicated without connecting the terminals, proceed to the "TC and CG Terminal Circuit" (see page RS-283).

**2. CLEAR DTC (USING SST CHECK WIRE)**

(a) Clear the DTCs.

(1) When the ignition switch is turned OFF, the DTCs are cleared.
HINT:
Depending on the DTC, the code may not be cleared by turning OFF the ignition switch. In this case, proceed to the next procedure.

(2) Using SST, connect terminals TC and CG of the DLC3, and then turn the ignition switch to the ON position.
**SST 09843-18040**

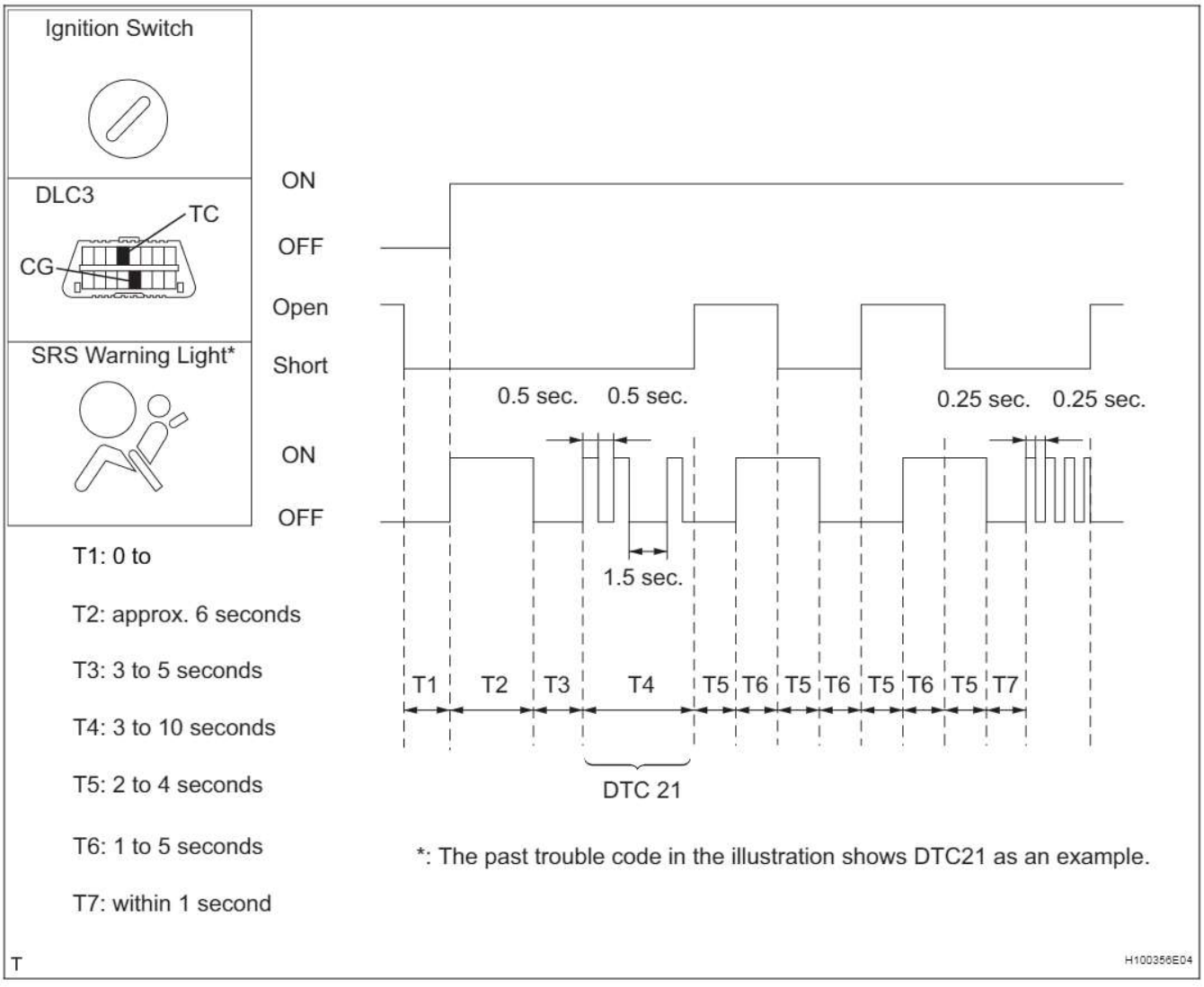
(3) Disconnect terminal TC of the DLC3 within 3 to 10 seconds after the DTCs are output, and check if the SRS warning light comes on after 3 seconds.

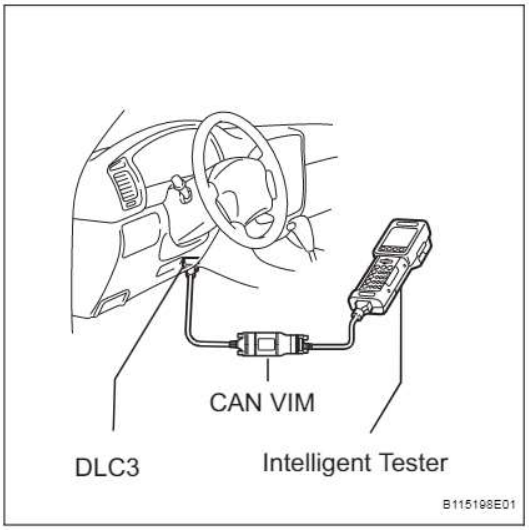
(4) Within 2 to 4 seconds after the SRS warning light comes on, connect terminals TC and CG of the DLC3.

(5) The SRS warning light should go off within 2 to 4 seconds after connecting terminals TC and CG of the DLC3. Then disconnect terminal TC within 2 to 4 seconds after the SRS warning light goes off.

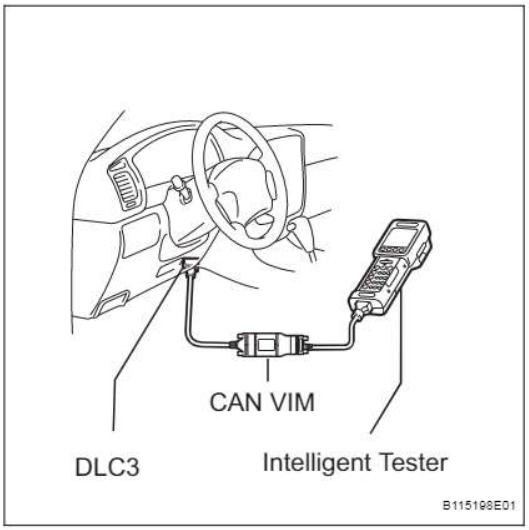
(6) The SRS warning light comes on again within 2 to 4 seconds after disconnecting terminal TC. Then, reconnect terminals TC and CG within 2 to 4 seconds after the SRS warning light comes on.

(7) Check if the SRS warning light goes off within 2 to 4 seconds after connecting terminals TC and CG of the DLC3, and the normal system code is output within 1 second after the SRS warning light goes off.
If DTCs are not cleared, repeat this procedure until the codes are cleared.






3. **DTC CHECK (USING INTELLIGENT TESTER)**
   (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
   (b) Turn the ignition switch to the ON position.
   (c) Read the DTCs by following the prompts on the tester screen.
   HINT:
   Refer to the intelligent tester operator's manual for further details.
4. **CLEAR DTC (USING INTELLIGENT TESTER)**
   (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
   (b) Turn the ignition switch to the ON position.
   (c) Clear the DTCs by following the prompts on the tester screen.
   HINT:
   Refer to the intelligent tester operator's manual for further details.




# CHECK MODE PROCEDURE

1. **CHECK MODE (SIGNAL CHECK) DTC CHECK**
   (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
   (b) Turn the ignition switch ON.
   (c) Select the Signal Check, and check using the intelligent tester.
   HINT:
   - Check mode is more sensitive to malfunctions than normal mode.
   - If the normal system code is output in normal mode even when a sensor signal malfunction is suspected, perform the inspection in check mode.

| DTC | B0138/72 | Short to B+ in Front Pretensioner Squib LH Circuit |
|---|---|---|

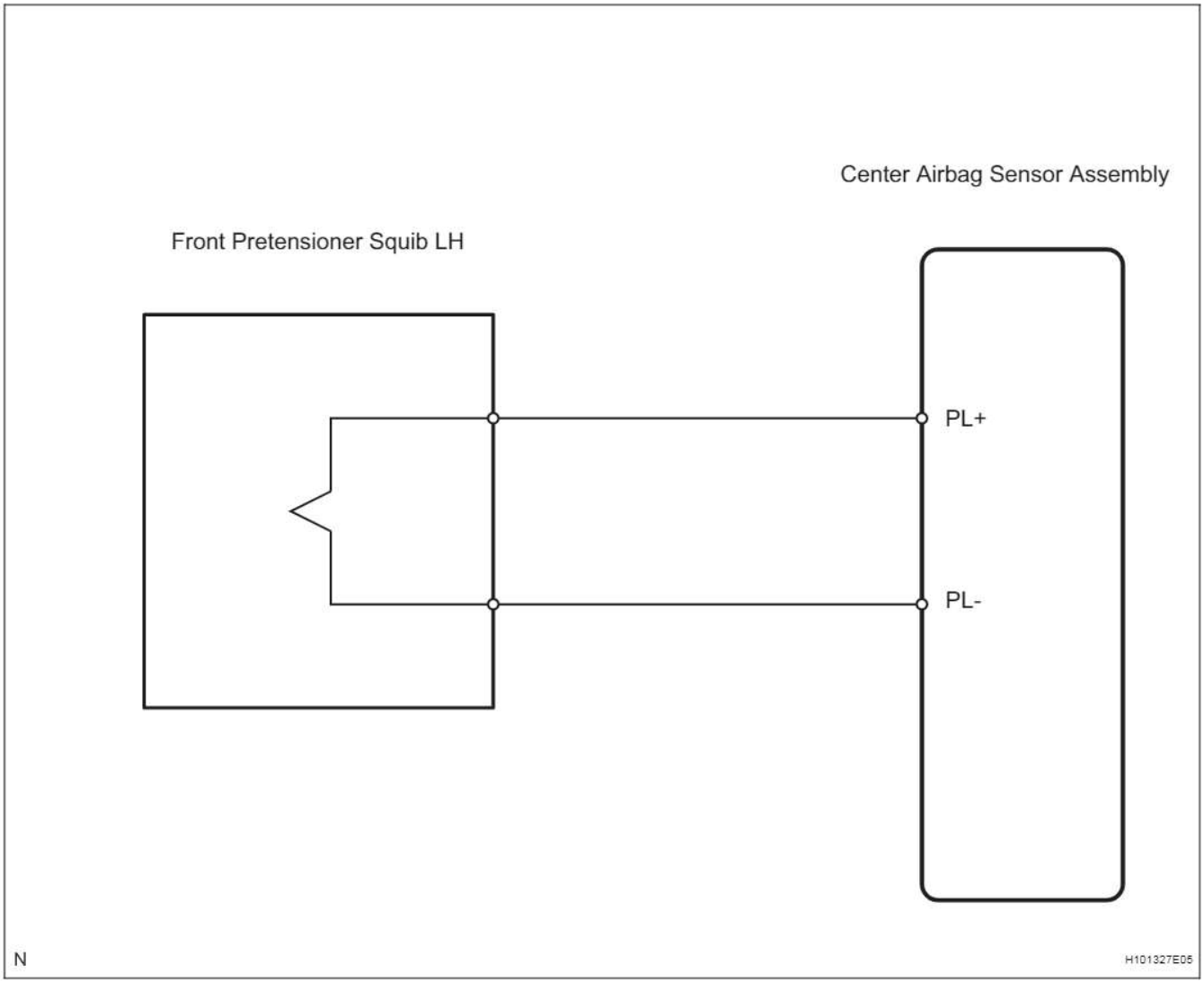
## DESCRIPTION

RS

The front pretensioner squib LH circuit consists of the center airbag sensor and front seat outer belt assembly LH (seat belt pretensioner LH).
This circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0138/72 is recorded when a B+ short is detected in the front pretensioner squib LH circuit.

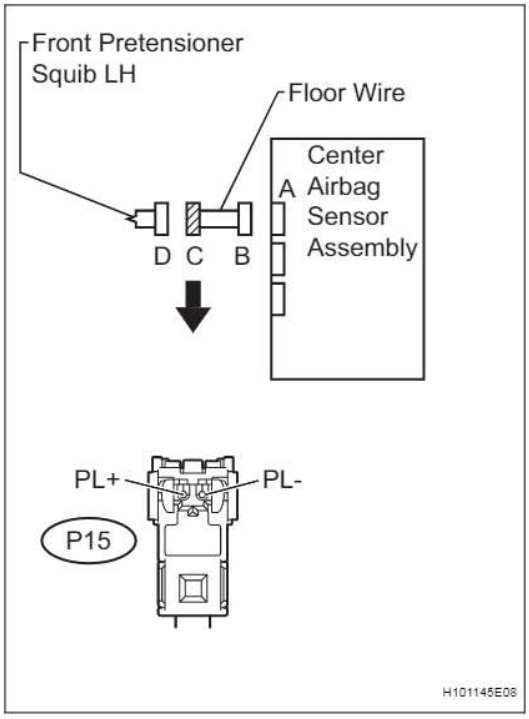
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0138/72 | • Short in front pretensioner squib LH circuit (to B+)<br>• Front pretensioner squib LH malfunction<br>• Center airbag sensor malfunction | • Front seat outer belt assembly LH (front pretensioner squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 CHECK FLOOR WIRE (FRONT PRETENSIONER SQUIB LH CIRCUIT)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front seat outer belt assembly LH.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON.
(f) Measure the voltage according to the value(s) in the table below.

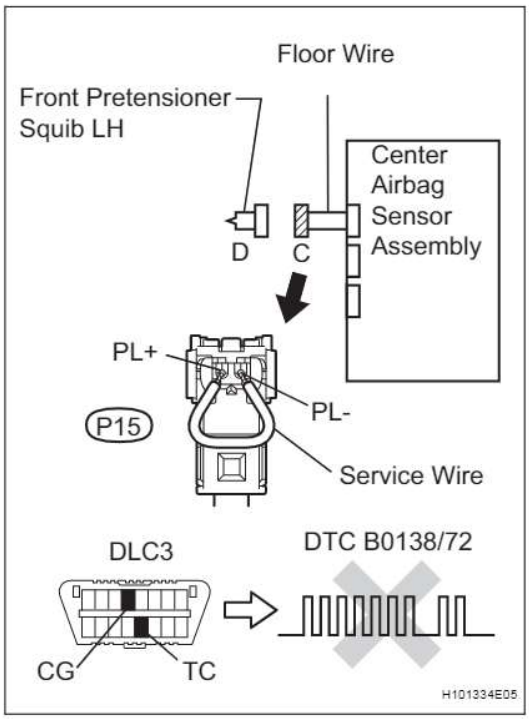
**Standard voltage**

| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| P15-1 (PL+) - Body ground | Ignition switch ON | Below 1 V |
| P15-2 (PL-) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

### 2 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using a service wire, connect terminals PL+ and PL- of connector "C".

**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**
**DTC B0138/72 is not output.**

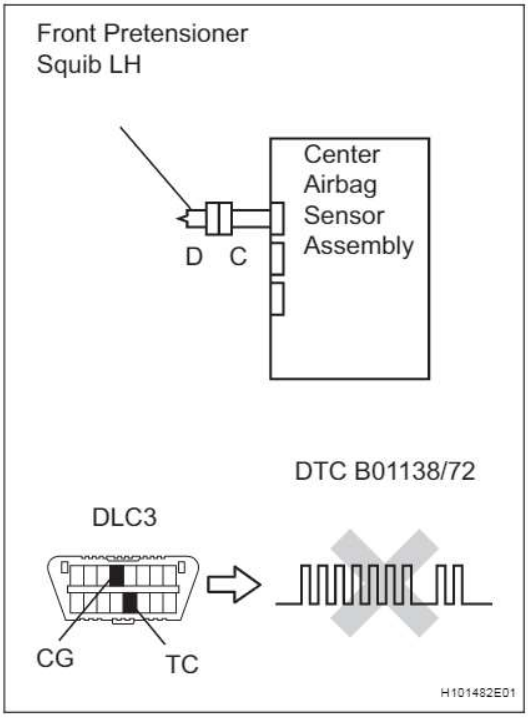
HINT:
Codes other than code B0138/72 may be output at this time, but they are not relevant to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS

OK

**3 CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (FRONT PRETENSIONER SQUIB LH)**




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the front seat outer belt LH (front pretensioner squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**
**DTC B0138/72 is not output.**

HINT:
Codes other than code B0138/72 may be output at this time, but they are not relevant to this check.

NG → REPLACE FRONT SEAT OUTER BELT ASSEMBLY LH

OK

**4 USE SIMULATION METHOD TO CHECK**

NG → Go to step 1

OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

| DTC | B1100/31 | Center Airbag Sensor Assembly Malfunction |
|---|---|---|

## DESCRIPTION

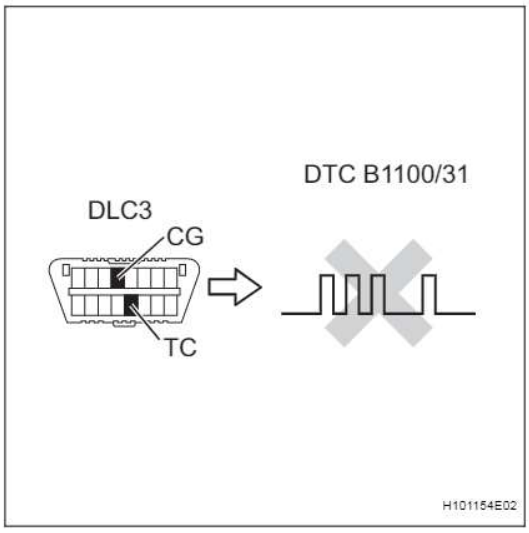
The center airbag sensor consists of the airbag sensor, safing sensor, drive circuit, diagnosis circuit and ignition control.
It receives signals from the airbag sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunctions.
DTC B1100/31 is recorded when occurrence of a malfunction in the center airbag sensor is detected.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1100/31 | • Center airbag sensor malfunction<br>• Malfunction of electrical connection check mechanism of center airbag sensor connector* | • Center airbag sensor assembly<br>• Electrical connection check mechanism* |

HINT:
- *: w/ Side airbag
- When a malfunction code other than code B1100/31 is displayed at the same time, first repair the malfunction indicated by the malfunction code other than code B1100/31.

## INSPECTION PROCEDURE

| 1 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the stored DTCs in the memory (see page RS-30).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-30).
**OK:**
**DTC B1100/31 is not output.**
HINT:
Codes other than code B1100/31 may be output at this time, but they are not related to this check.

NG → **USE SIMULATION METHOD TO CHECK**

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY CONNECTOR |
|---|---|

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the center airbag sensor.

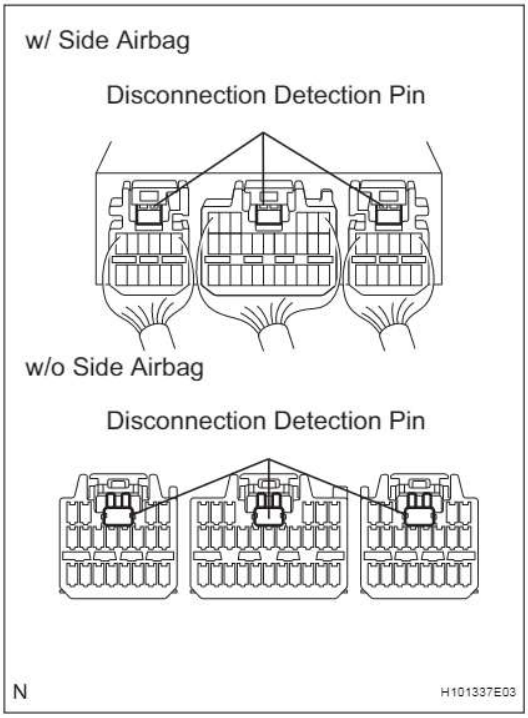
**OK:**
**The connectors are connected.**

NG → **Go to step 4**

OK

RS

## 3 PERFORM VISUAL CHECK OF DISCONNECTION DETECTION PIN

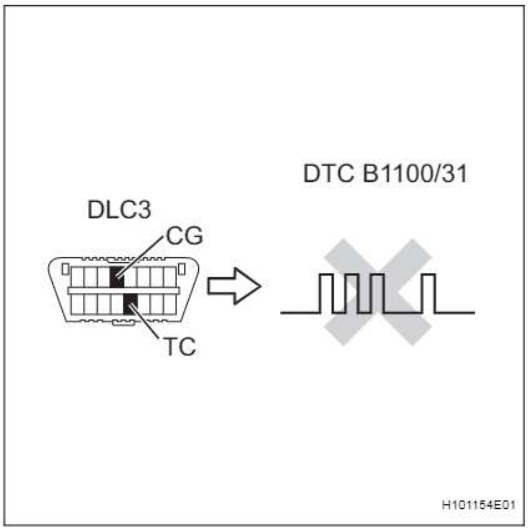



(a) Disconnect the connectors from the center airbag sensor.
(b) Check the disconnection detection pin of the connector.
HINT:
Compare the one connector with the other 2 connectors.
**OK:**
**No deformation is identified.**

NG → **REPAIR OR REPLACE CENTER AIRBAG SENSOR ASSEMBLY CONNECTOR**

OK

## 4 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connectors to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the stored DTCs in the memory (see page RS-30).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (see page RS-30).
**OK:**
**DTC B1100/31 is not output.**
HINT:
Codes other than code B1100/31 may be output at this time, but they are not related to this check.

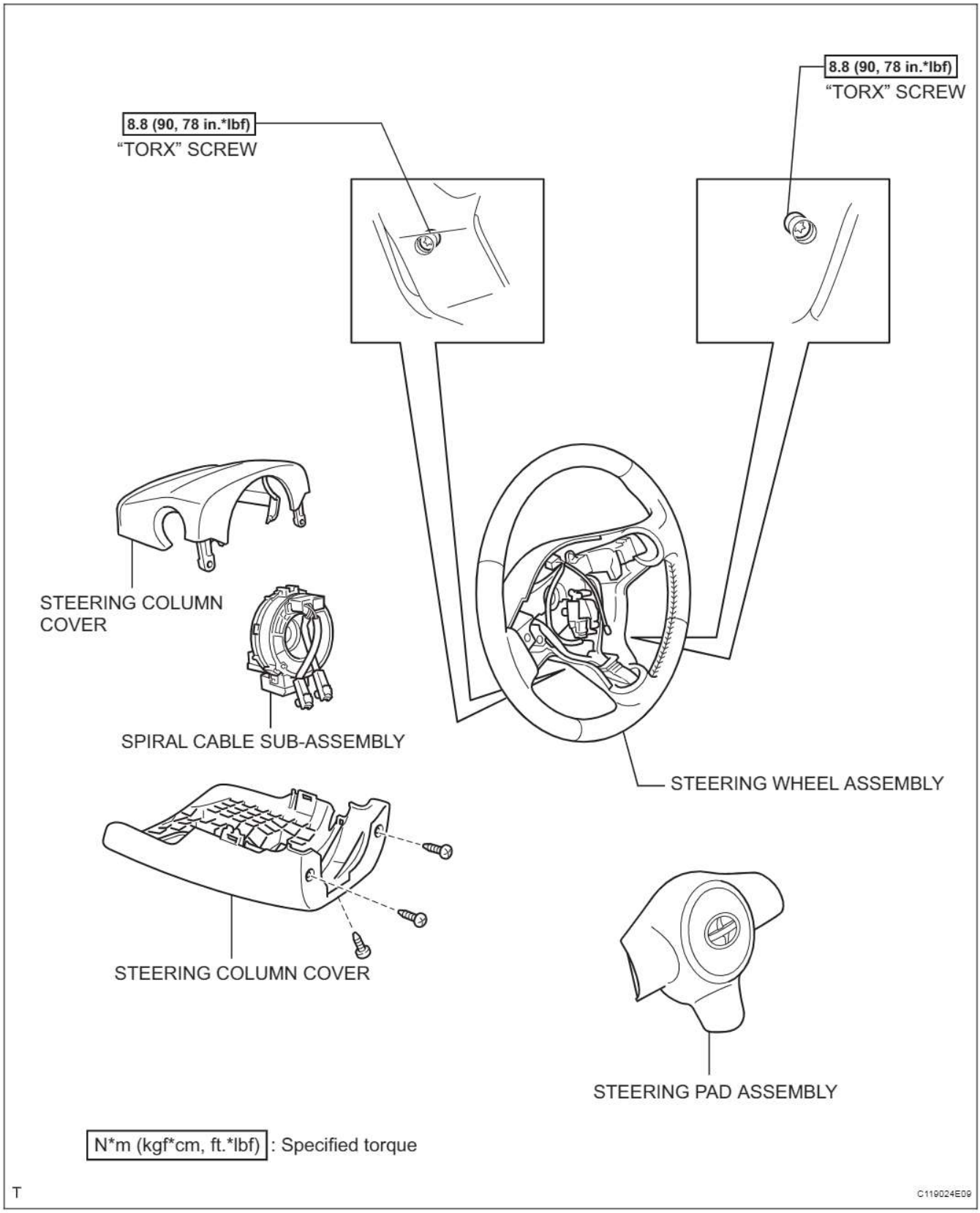
NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| USE SIMULATION METHOD TO CHECK |
|---|

# SPIRAL CABLE

## COMPONENTS

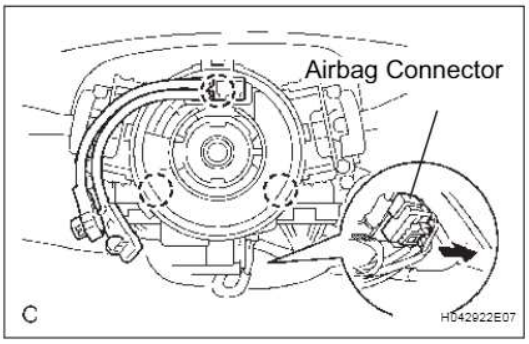


RS

# REMOVAL

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE STEERING PAD ASSEMBLY (See page RS-288)**
3. **PLACE FRONT WHEELS FACING STRAIGHT AHEAD**
4. **REMOVE STEERING WHEEL ASSEMBLY (See page SR-7)**
5. **REMOVE STEERING COLUMN COVER (See page SR-7)**
6. **REMOVE SPIRAL CABLE SUB-ASSEMBLY**
   (a) Disconnect the airbag connector.
   **NOTICE:**
   **When handling the airbag connector, do not damage the airbag wire harness.**
   (b) Detach the 3 claws and remove the spiral cable.



| DTC | B1140/32 | Side Airbag Sensor Assembly RH Circuit Malfunction |
|---|---|---|

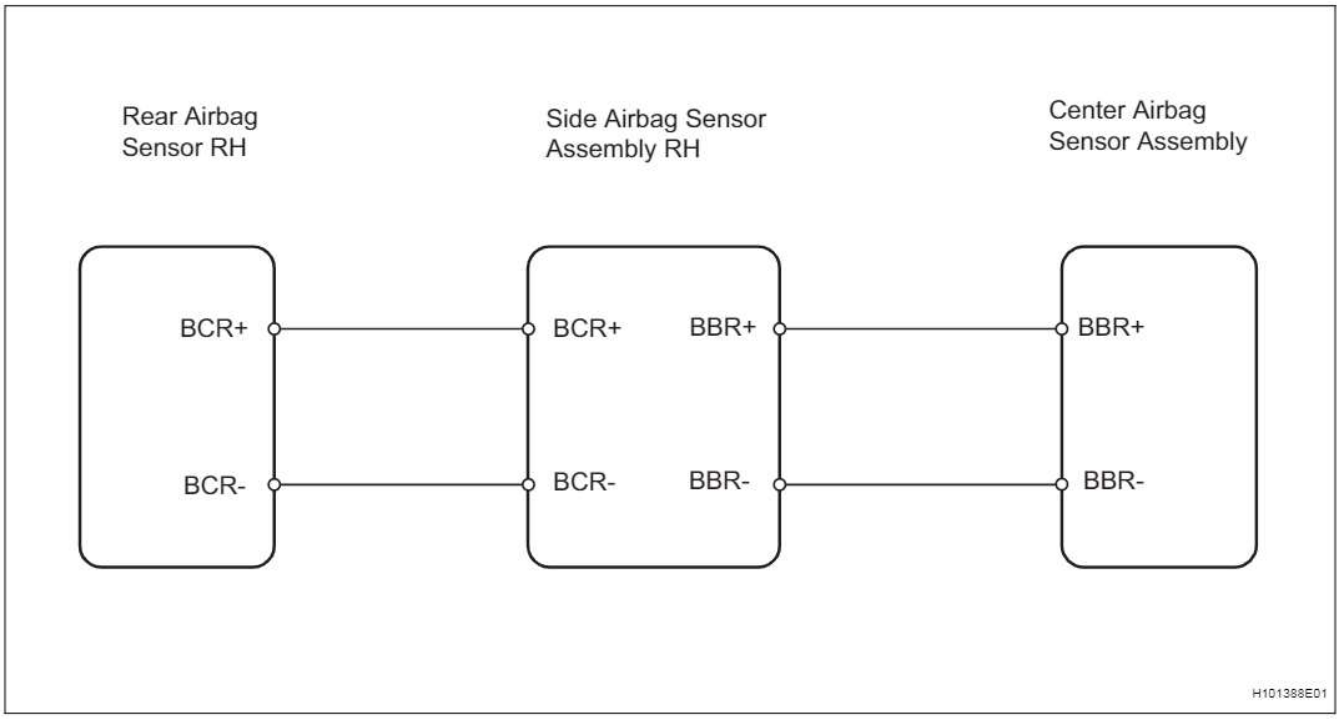
## DESCRIPTION

RS

The side and curtain shield airbag sensor RH consists of the safing sensor, diagnosis circuit and lateral deceleration sensor.
It receives signals from the lateral deceleration sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunctions.
DTC B1140/32 is recorded when occurrence of a malfunction in the side and curtain shield airbag sensor RH is detected.

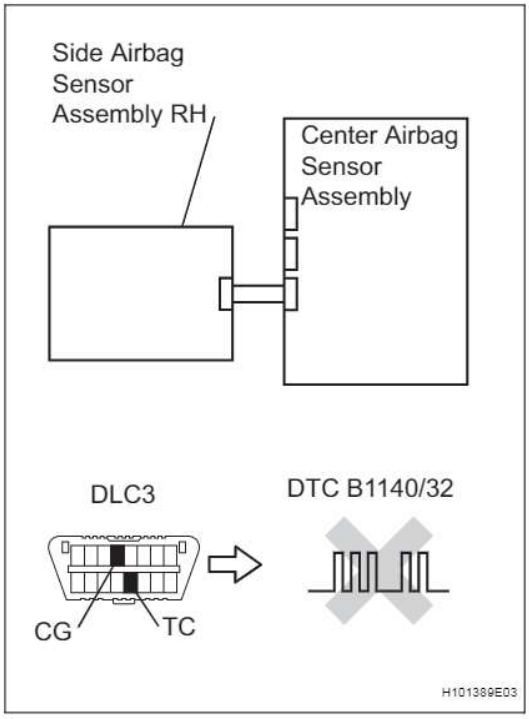
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1140/32 | • Short circuit in side airbag sensor RH wire harness (to ground)<br>• Short circuit in side airbag sensor RH wire harness (to B+)<br>• Short circuit in rear airbag sensor RH wire harness (to ground)<br>• Short circuit in rear airbag sensor RH wire harness (to B+)<br>• Open circuit in BBR+ wire harness or BBR- wire harness of side airbag sensor RH<br>• Side airbag sensor RH malfunction<br>• Center airbag sensor malfunction | • Side airbag sensor assembly RH<br>• Center airbag sensor assembly<br>• Rear airbag sensor RH<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DTC |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the stored DTCs in the memory (see page RS-30).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-30).

**OK:**

**DTC B1140/32 is output.**

HINT:

Codes other than code B1140/32 may be output at this time, but they are not relevant to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

| 2 | CHECK CONNECTION OF CONNECTOR |
|---|---|

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the center airbag sensor and the side airbag sensor RH.

**OK:**

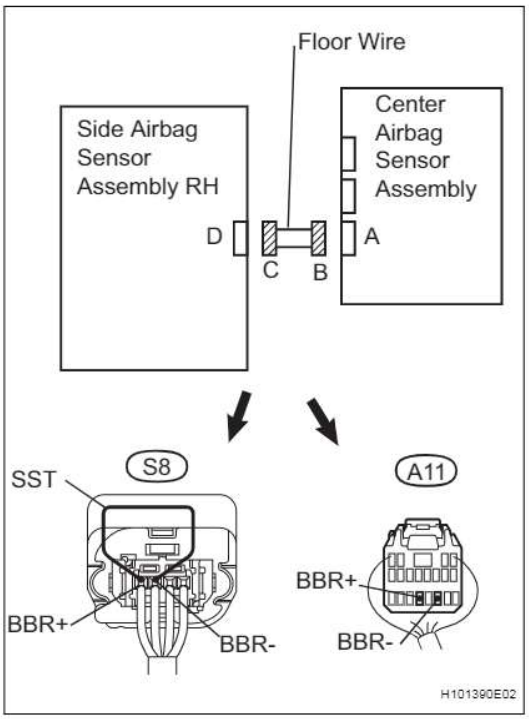
**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

RS

## 3 CHECK FLOOR WIRE (OPEN)



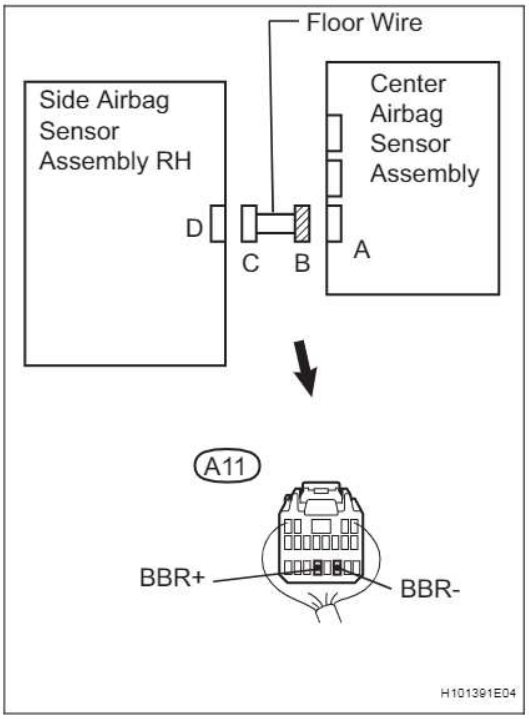

(a) Disconnect the connectors from the center airbag sensor and the side airbag sensor RH.
(b) Using SST, connect terminals BBR+ and BBR- of connector "C".
**SST 09843-18040**
**NOTICE:**
**Do not forcibly insert SST(s) into the terminals of the connector when connecting.**
(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A11-17 (BBR+) - A11-15 (BBR-) | Below 1 Ω |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 4 CHECK FLOOR WIRE (SHORT)



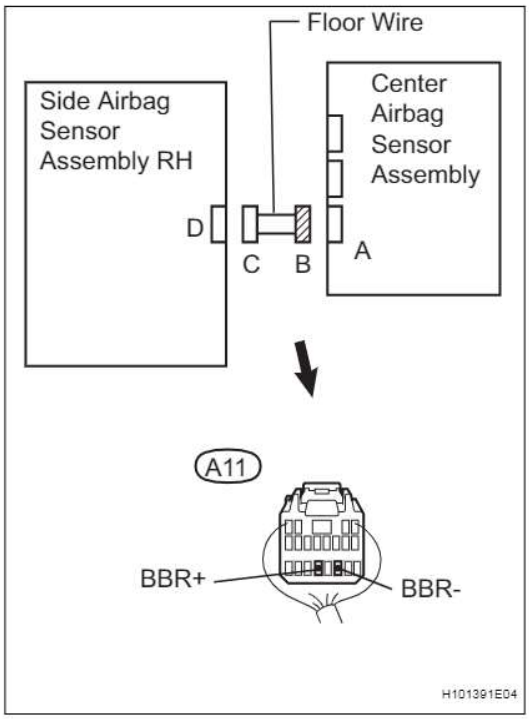

(a) Disconnect the service wire from the connector "C".
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A11-17 (BBR+) - A11-15 (BBR-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 5 CHECK FLOOR WIRE (TO GROUND)




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

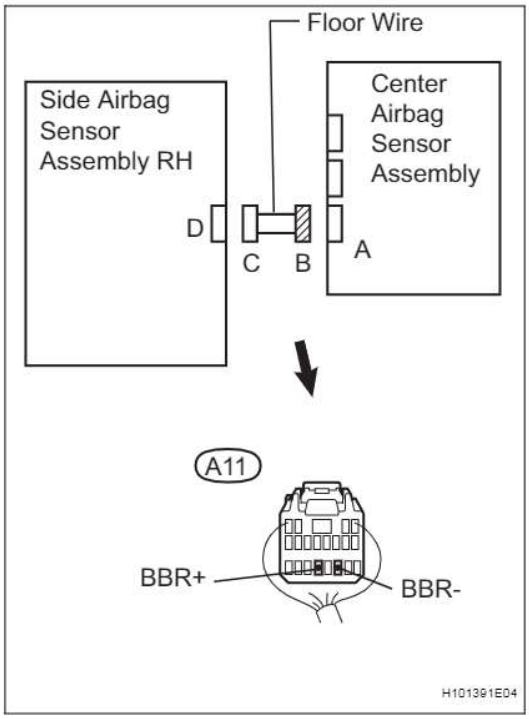
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A11-17 (BBR+) - Body ground | 1 MΩ or higher |
| A11-15 (BBR-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 6 CHECK FLOOR WIRE (TO B+)




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

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

**Standard voltage**

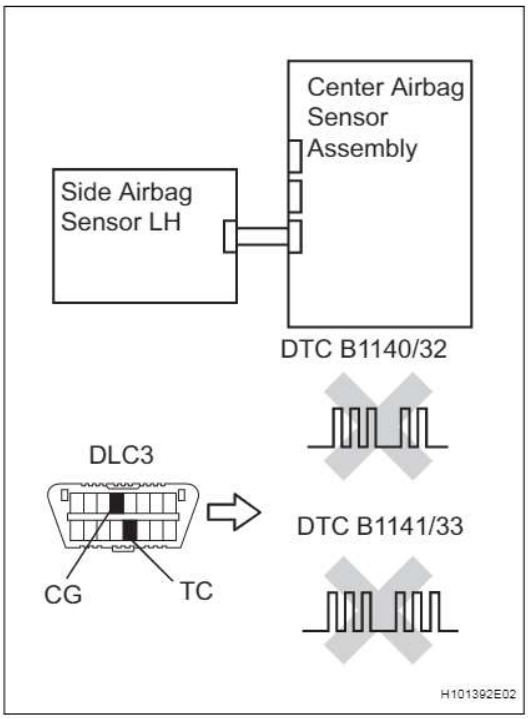
| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A11-17 (BBR+) - Body ground | Ignition switch ON | Below 1 V |
| A11-15 (BBR-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 7 | CHECK SIDE AIRBAG SENSOR ASSEMBLY RH |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Interchange the side airbag sensor assembly RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**A:**
**DTC B1140/32 is output or both DTC B1140/32 and DTC B1141/33 are output.**

**B:**
**DTC B1141/33 is output.**

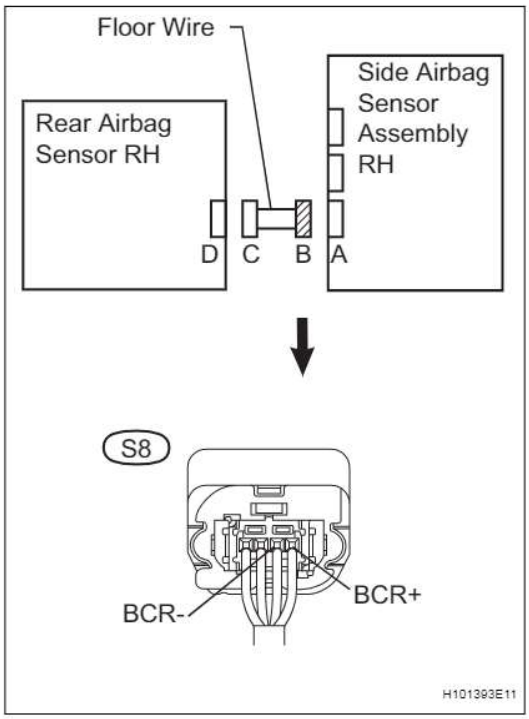
**C:**
**DTC B1140/32 and DTC B1141/33 are not output.**

| | |
|---|---|
| B | REPLACE SIDE AIRBAG SENSOR ASSEMBLY RH |
| C | USE SIMULATION METHOD TO CHECK |

A

RS

## 8 CHECK FLOOR WIRE (SHORT)




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Return the interchanged side airbag sensor RH and LH back to their original positions and connect the connectors.
(d) Disconnect the connectors from the side airbag sensor RH and the rear airbag sensor RH.
(e) Measure the resistance according to the value(s) in the table below.

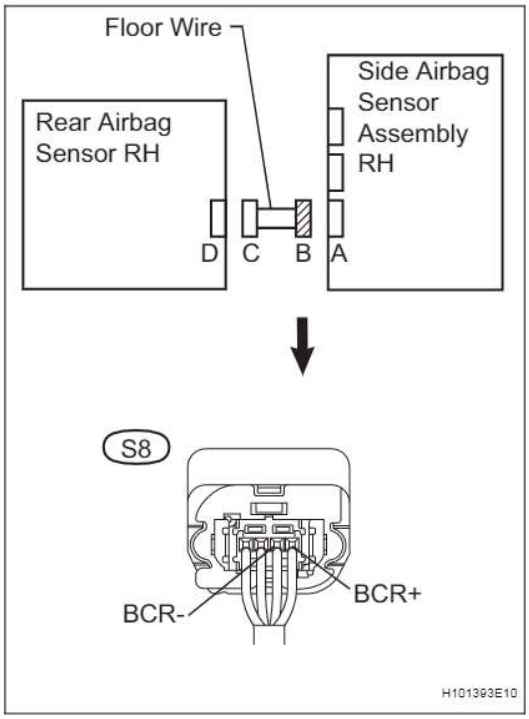
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| S8-1 (BCR+) - S8-2 (BCR-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 9 CHECK FLOOR WIRE (TO GROUND)




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

**Standard resistance**

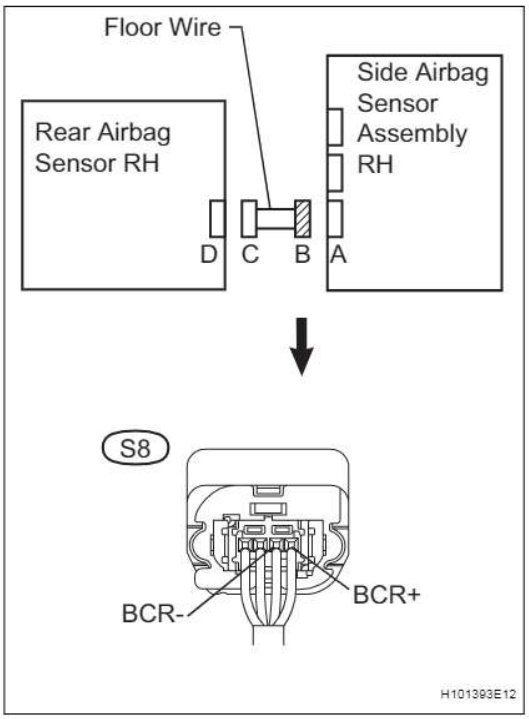
| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| S8-1 (BCR+) - Body ground | 1 MΩ or higher |
| S8-2 (BCR-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

## 10 CHECK FLOOR WIRE (TO B+)




(a) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(b) Measure the voltage according to the value(s) in the table below.

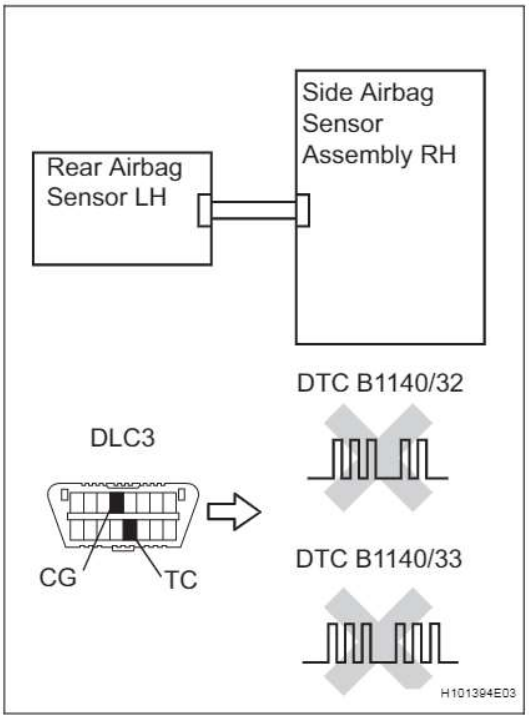
**Standard voltage**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| S8 (BCR+) - Body ground | Ignition switch ON | Below 1 V |
| S8 (BCR-) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 11 CHECK REAR AIRBAG SENSOR RH




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Interchange the rear airbag sensor RH with LH and connect the connectors to them..
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**A:**
**DTC B1140/32 is output or both DTC B1140/32 and DTC B1141/33 are output.**

**B:**
**DTC B1141/33 is output.**

**C:**
**DTC B1140/32 and DTC B1141/33 are not output.**

A → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

B → REPLACE REAR AIRBAG SENSOR RH

C

USE SIMULATION METHOD TO CHECK

| DTC | B1141/33 | Side Airbag Sensor Assembly LH Malfunction |
|---|---|---|

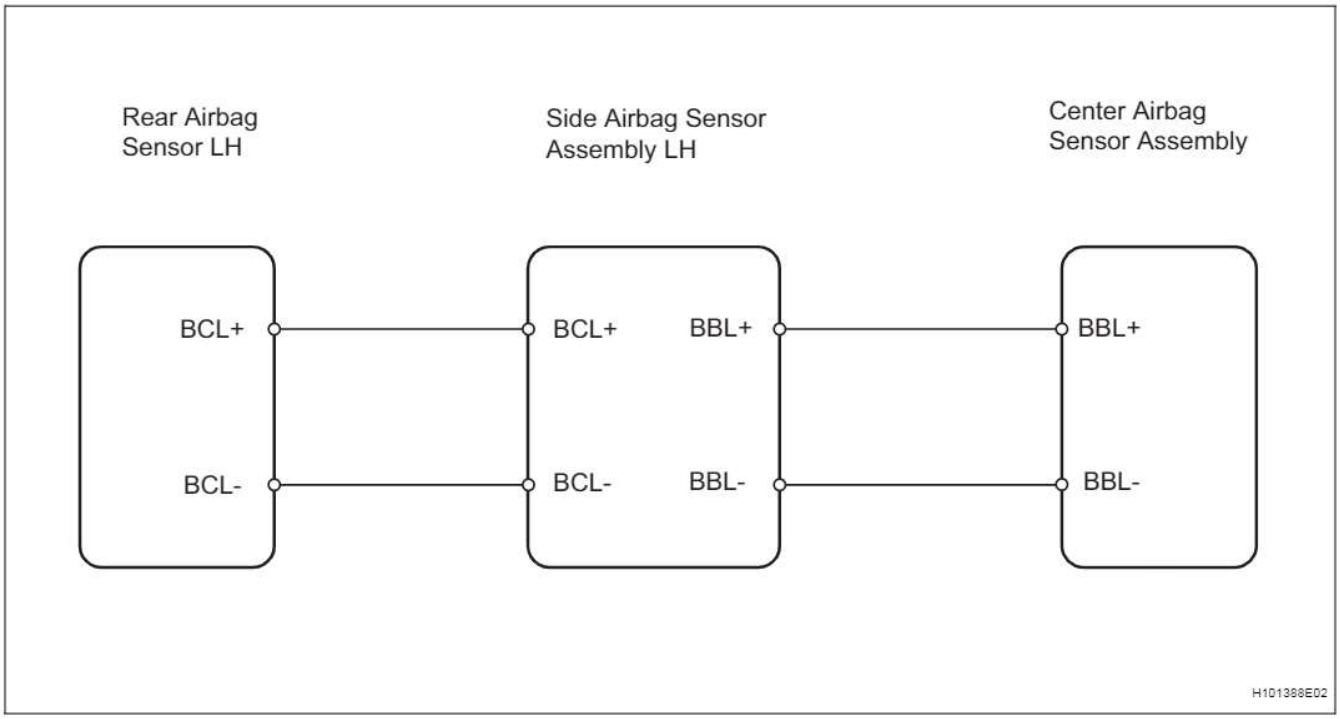
## DESCRIPTION

RS

The side and curtain shield airbag sensor LH consists of the safing sensor, diagnosis circuit and lateral deceleration sensor.
It receives signals from the lateral deceleration sensor, judges whether or not the SRS must be activated, and detects diagnosis system malfunctions.
DTC B1141/33 is recorded when occurrence of a malfunction in the side and curtain shield airbag sensor LH is detected.

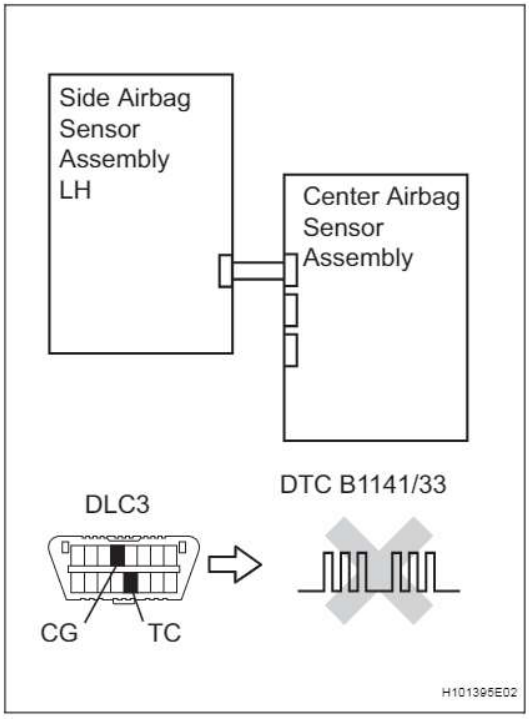
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1141/33 | • Short circuit in side airbag sensor LH wire harness (to ground)<br>• Short circuit in side airbag sensor LH wire harness (to B+)<br>• Short circuit in rear airbag sensor LH wire harness (to ground)<br>• Short circuit in rear airbag sensor LH wire harness (to B+)<br>• Open circuit in BBL+ wire harness or BBL- wire harness of side airbag sensor LH<br>• Side airbag sensor LH malfunction<br>• Center airbag sensor malfunction | • Side airbag sensor assembly LH<br>• Center airbag sensor assembly<br>• Rear airbag sensor LH<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DTC |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(e) Clear the stored DTCs in the memory (see page RS-30).
(f) Turn the ignition switch to the LOCK position.
(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-30).

**OK:**

**DTC B1141/33 is output.**

HINT:

Codes other than code B1141/33 may be output at this time, but they are not relevant to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

| 2 | CHECK CONNECTION OF CONNECTORS |
|---|---|

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the center airbag sensor and the side airbag sensor LH.

**OK:**

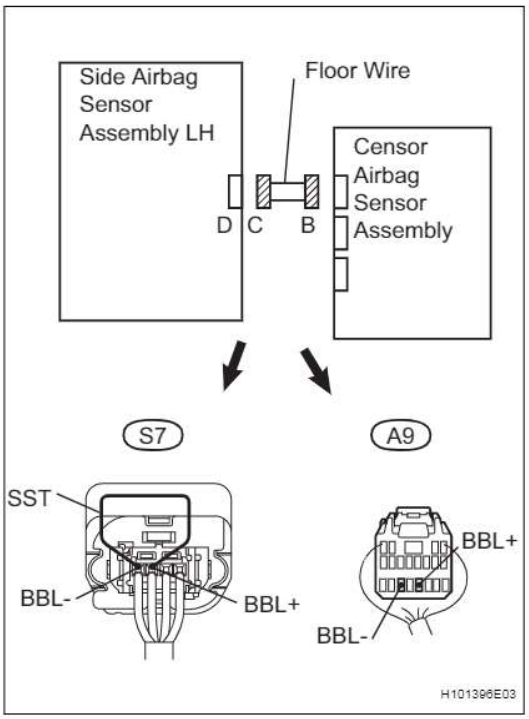
**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

RS

## 3 CHECK FLOOR WIRE (OPEN)



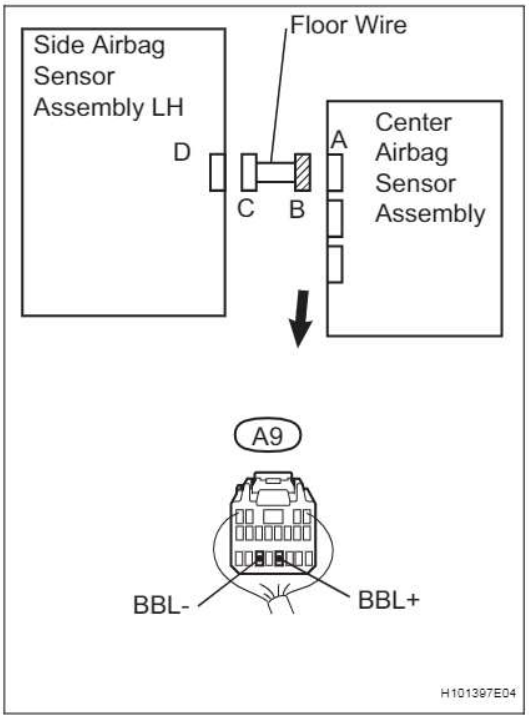

(a) Disconnect the connectors from the center airbag sensor and the side airbag sensor LH.
(b) Using SST, connect terminals BBL+ and BBL- of connector "C".
**SST 09843-18040**
**NOTICE:**
**Do not forcibly insert SST(s) into the terminals of the connector when connecting.**
(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-16 (BBL+) - A9-18 (BBL-) | Below 1 Ω |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 4 CHECK FLOOR WIRE (SHORT)



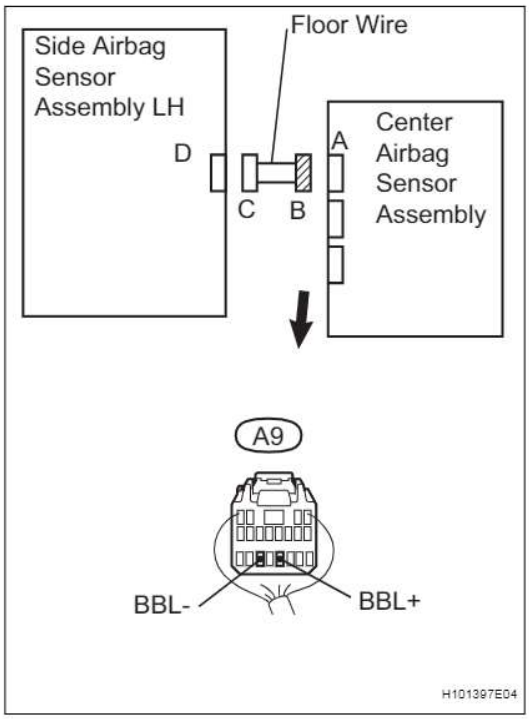

(a) Disconnect the service wire from the connector "C".
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-16 (BBL+) - A9-18 (BBL-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 5 CHECK FLOOR WIRE (TO GROUND)




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

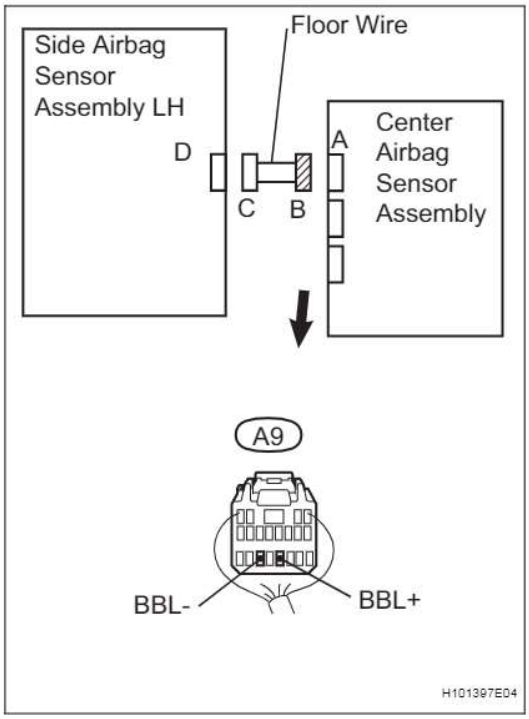
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-16 (BBL+) - Body ground | 1 MΩ or higher |
| A9-18 (BBL-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 6 CHECK FLOOR WIRE (TO B+)




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

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

**Standard voltage**

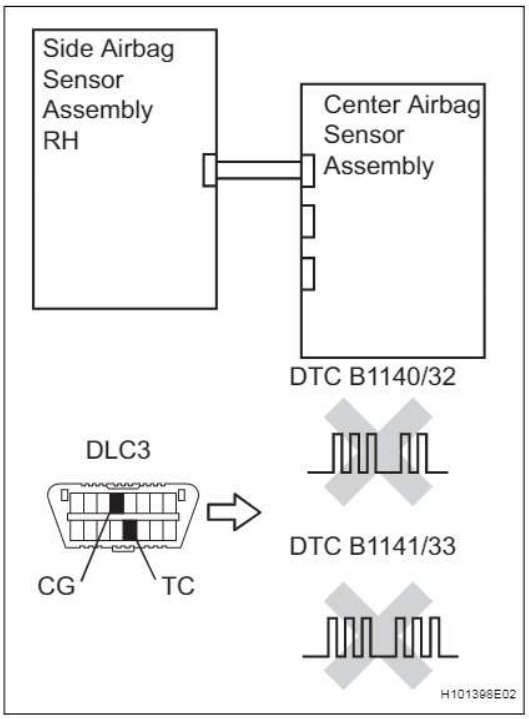
| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-16 (BBL+) - Body ground | Ignition switch ON | Below 1 V |
| A9-18 (BBL-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 7 | CHECK SIDE AIRBAG SENSOR ASSEMBLY LH |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Interchange the side airbag sensor assembly RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**A:**
**DTC B1140/32 is output.**

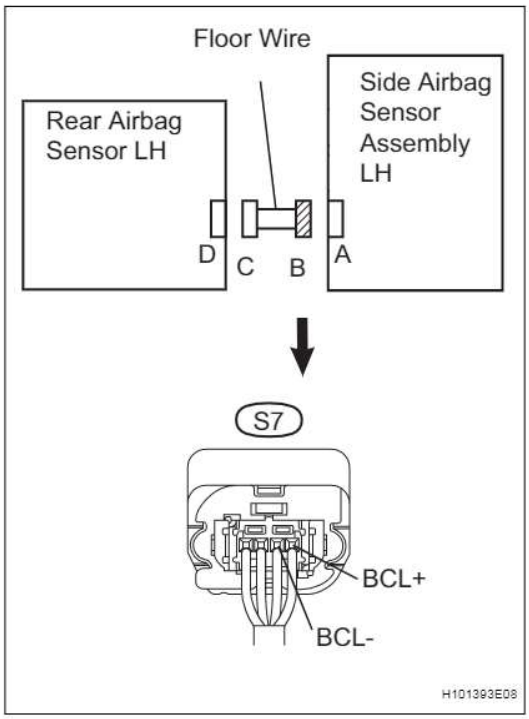
**B:**
**DTC B1141/33 is output or both DTC B1140/32 and DTC B1141/33 are output.**

**C:**
**DTC B1140/32 and DTC B1141/33 are not output.**

| | |
|---|---|
| A | REPLACE SIDE AIRBAG SENSOR ASSEMBLY LH |
| C | USE SIMULATION METHOD TO CHECK |

B

## 8 CHECK FLOOR WIRE (SHORT)




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Return the interchanged side airbag sensor RH and LH back to their original positions and connect the connectors.
(d) Disconnect the connectors from the side airbag sensor LH and the rear airbag sensor LH.
(e) Measure the resistance according to the value(s) in the table below.

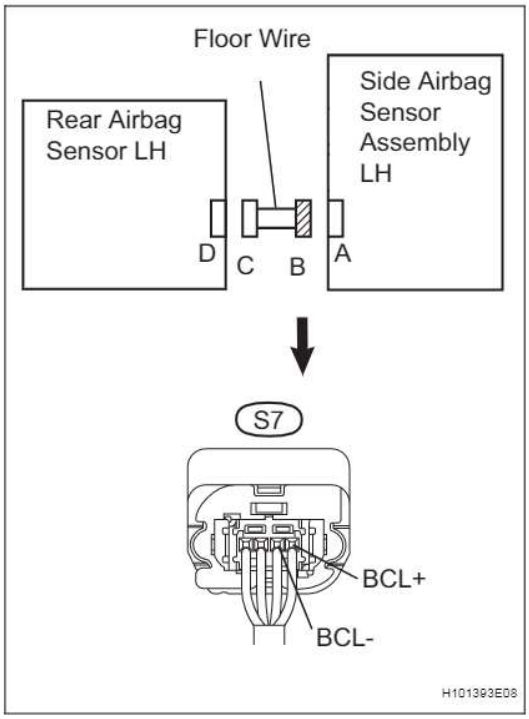
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| S7-1 (BCL+) - S7-2 (BCL-) | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

## 9 CHECK FLOOR WIRE (TO GROUND)




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

**Standard resistance**

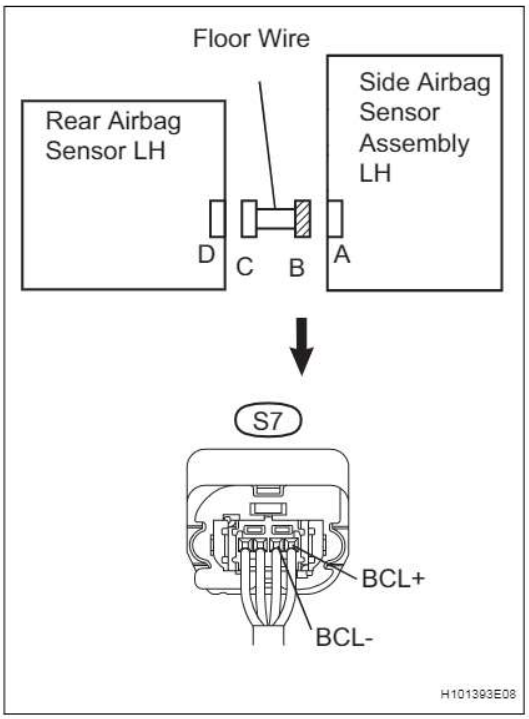
| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| S7-1 (BCL+) - Body ground | 1 MΩ or higher |
| S7-2 (BCL-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

## 10 CHECK FLOOR WIRE (TO B+)




(a) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(b) Measure the voltage according to the value(s) in the table below.

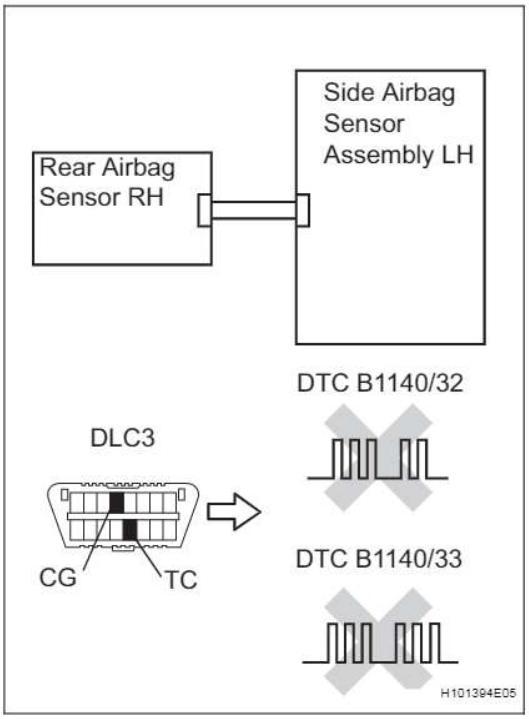
**Standard voltage**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| S7 (BCL+) - Body ground | Ignition switch ON | Below 1 V |
| S7 (BCL-) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 11 CHECK REAR AIRBAG SENSOR LH




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Interchange the rear airbag sensor RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**A:**
**DTC B1140/32 is output.**

**B:**
**DTC B1141/33 is output or both DTC B1140/32 and DTC B1141/33 are output.**

**C:**
**DTC B1140/32 and DTC B1141/33 are not output.**

A → **REPLACE REAR AIRBAG SENSOR LH**

B → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

C

USE SIMULATION METHOD TO CHECK

| DTC | B1153/25 | Seat Position Airbag Sensor Circuit Malfunction |
|---|---|---|

## DESCRIPTION

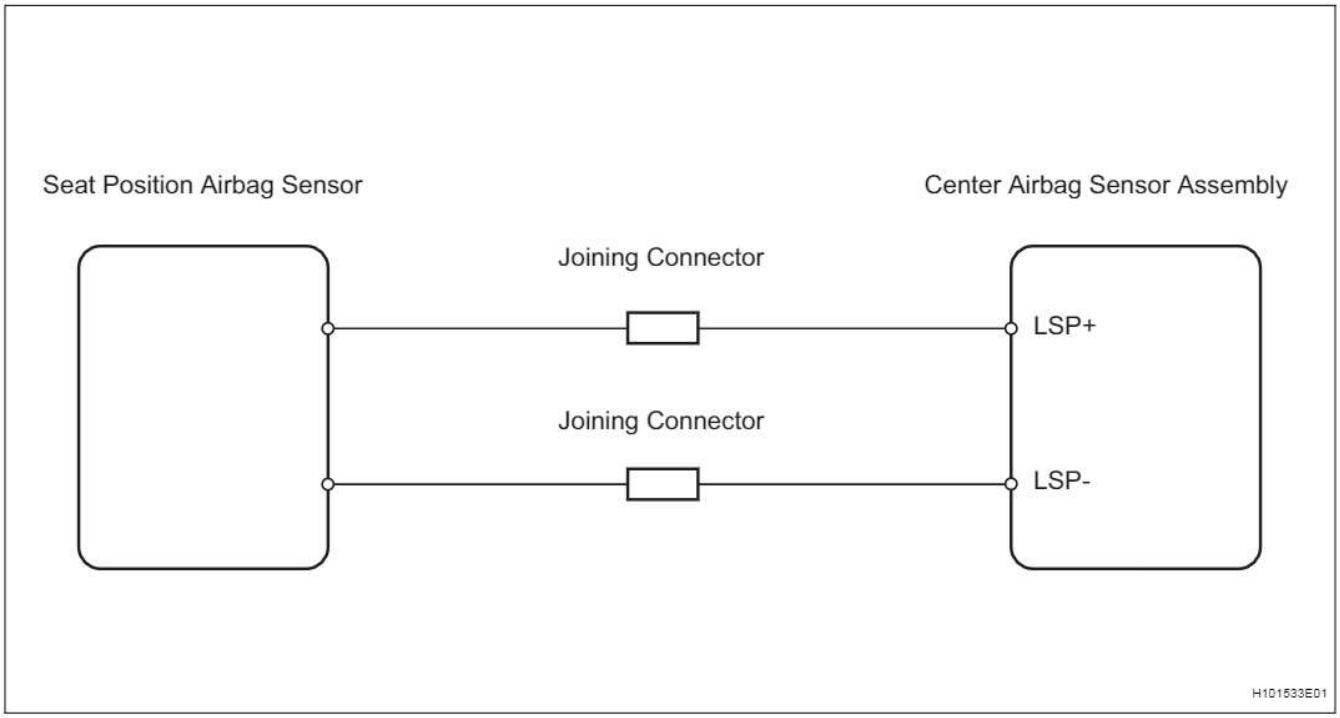
RS

The seat position airbag sensor circuit consists of the center airbag sensor and the seat position airbag sensor.

DTC B1153/25 is recorded when a malfunction is detected in the seat position airbag sensor circuit.

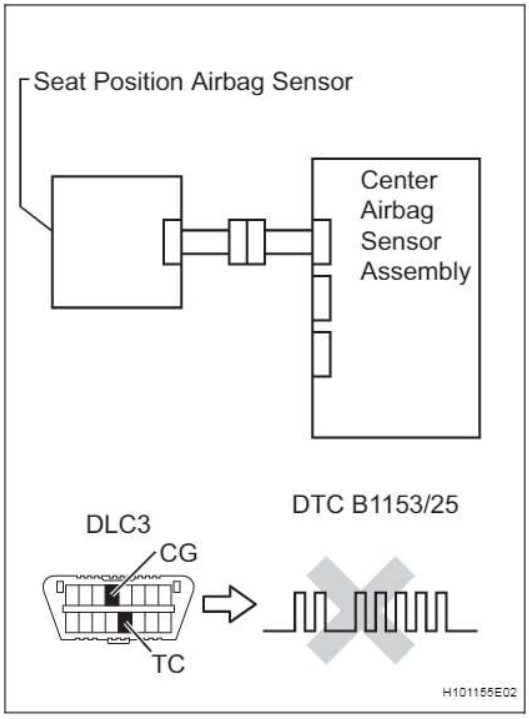
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1153/25 | • Open circuit in LSP+ wire harness or LSP- wire harness of seat position airbag sensor<br>• Short circuit in seat position airbag sensor wire harness (to B+)<br>• Seat position airbag sensor malfunction<br>• Center airbag sensor malfunction | • Seat position airbag sensor<br>• Center airbag sensor assembly<br>• Floor wire<br>• Front seat inner belt assembly LH |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK SEAT POSITION AIRBAG SENSOR |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).

**OK:**

**DTC B1153/25 is output.**

HINT:

Codes other than code B1153/25 may be output at this time, but they are not relevant to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY CONNECTOR |
|---|---|

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the center airbag sensor.

**OK:**

**The connectors are connected.**

NG → **CONNECT CONNECTORS**

OK

| 3 | CHECK SEAT POSITION AIRBAG SENSOR CONNECTOR |
|---|---|

(a) Check that the connector is properly connected to the seat position airbag sensor.

**OK:**

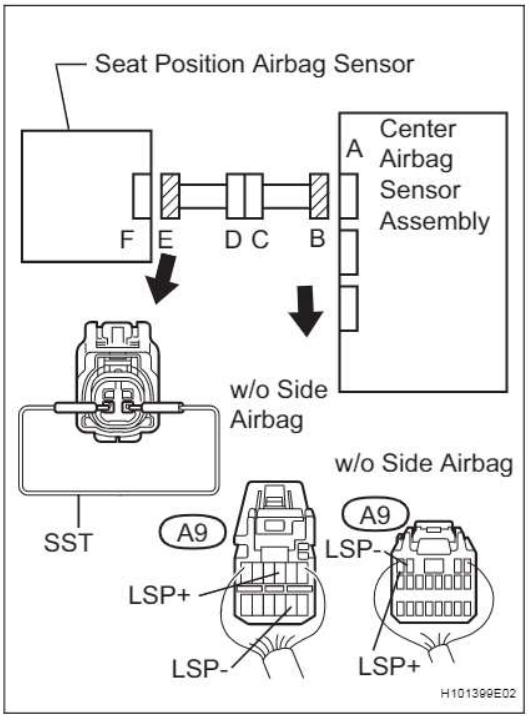
**The connector is connected.**

NG → **CONNECT CONNECTOR**

OK

RS

| 4 | CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (OPEN) (CENTER AIRBAG SENSOR - SEAT POSITION AIRBAG SENSOR) |
|---|---|




(a) Disconnect the connectors from the center airbag sensor and the seat position airbag sensor.
(b) Using SST, connect the terminals of connector "E".
**SST 09843-18040**

**NOTICE:**
**Do not forcibly insert SST into the terminals of the connector when connecting.**

(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance:**
**w/o Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-3 (LSP+) - A9-8 (LSP-) | Below 1 Ω |

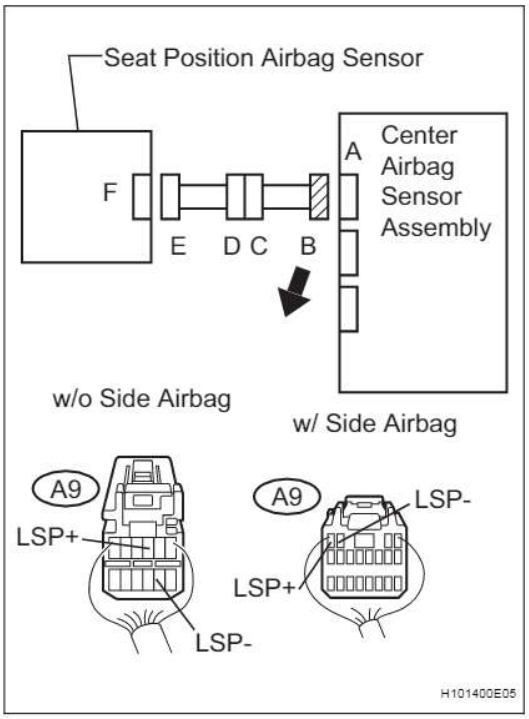
**w/ Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-4 (LSP+) - A9-3 (LSP-) | Below 1 Ω |

NG → Go to step 11

OK

| 5 | CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (TO GROUND) (CENTER AIRBAG SENSOR - SEAT POSITION AIRBAG SENSOR) |
|---|---|




(a) Disconnect the connectors from the center airbag sensor and the seat position airbag sensor.
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance:**
**w/o Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-3 (LSP+) - Body ground | 1 MΩ or higher |
| A9-8 (LSP-) - Body ground | 1 MΩ or higher |

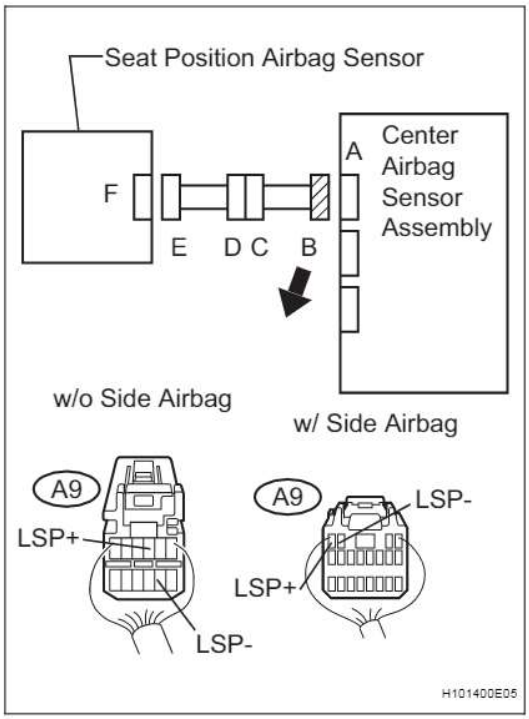
**w/ Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-4 (LSP+) - Body ground | 1 MΩ or higher |
| A9-3 (LSP-) - Body ground | 1 MΩ or higher |

NG → Go to step 12

OK

| 6 | CHECK SEAT POSITION AIRBAG SENSOR ASSEMBLY (CENTER AIRBAG SENSOR - SEAT POSITION AIRBAG SENSOR) |
|---|---|




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

**Standard resistance:**

**w/o Side airbag**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-3 (LSP+) - A9-8 (LSP-) | 1 MΩ or higher |

**w/ Side airbag**

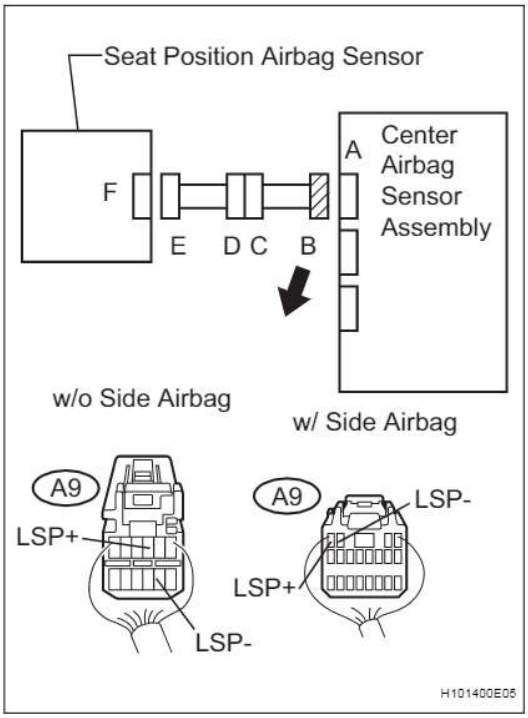
| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A9-4 (LSP+) - A9-3 (LSP-) | 1 MΩ or higher |

OK → Go to step 13

NG

RS

## 7 CHECK SEAT POSITION AIRBAG SENSOR CIRCUIT (TO B+) (CENTER AIRBAG SENSOR ASSEMBLY - SEAT POSITION AIRBAG SENSOR)




(a) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(b) Measure the resistance according to the value(s) in the table below.

**Standard voltage:**

**w/o Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-3 (LSP+) - Body ground | Ignition switch ON | Below 1 V |
| A9-8 (LSP-) - Body ground | Ignition switch ON | Below 1 V |

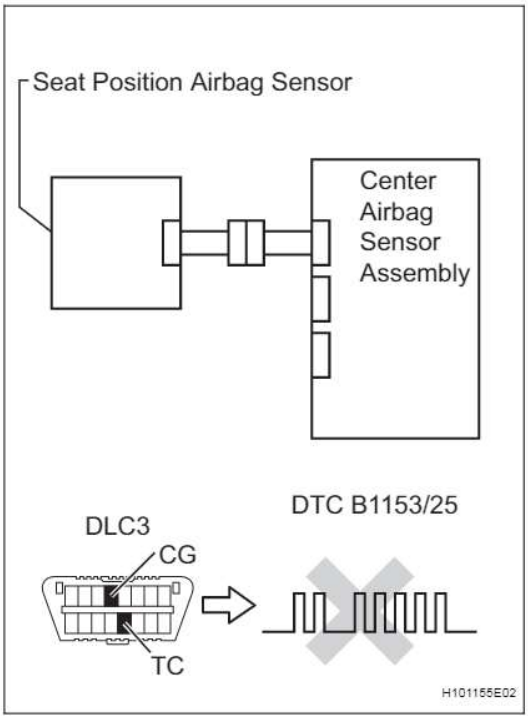
**w/ Side airbag**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A9-4 (LSP+) - Body ground | Ignition switch ON | Below 1 V |
| A9-3 (LSP-) - Body ground | Ignition switch ON | Below 1 V |

NG → **Go to step 14**

OK

## 8 CHECK SEAT POSITION AIRBAG SENSOR




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connectors to the seat position airbag sensor and the center airbag sensor.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B1153/25 is output.**

HINT:

Codes other than code B1153/25 may be output at this time, but they are not relevant to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

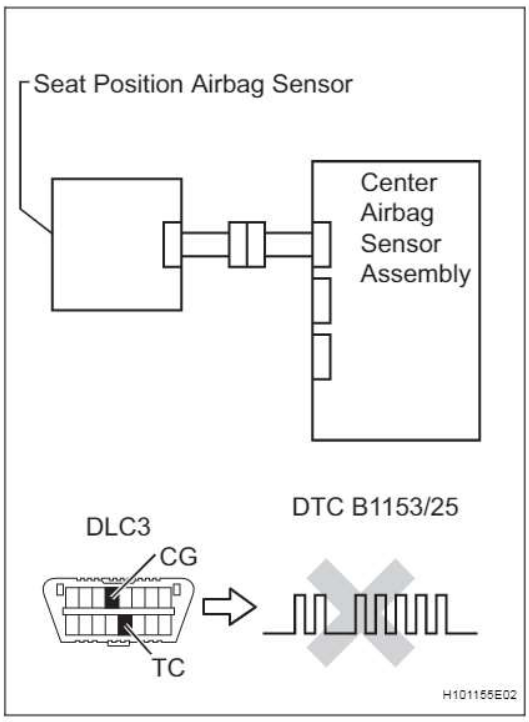
| 9 | REPLACE SEAT POSITION AIRBAG SENSOR |
|---|---|

(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery and wait for at least 90 seconds.
(c) Replace the seat position airbag sensor.

RS

NEXT

| 10 | CHECK CENTER AIRBAG SENSOR ASSEMBLY (TO GROUND) |
|---|---|




(a) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(b) Turn the ignition switch to ON, and wait at least for 60 seconds.
(c) Clear the DTC stored in memory (see page RS-30).
(d) Turn the ignition switch to LOCK.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Check the DTC (see page RS-30).
**OK:**
**DTC B1153/25 is output.**
HINT:
Codes other than code B1153/25 may be output at this time, but they are not relevant to this check.

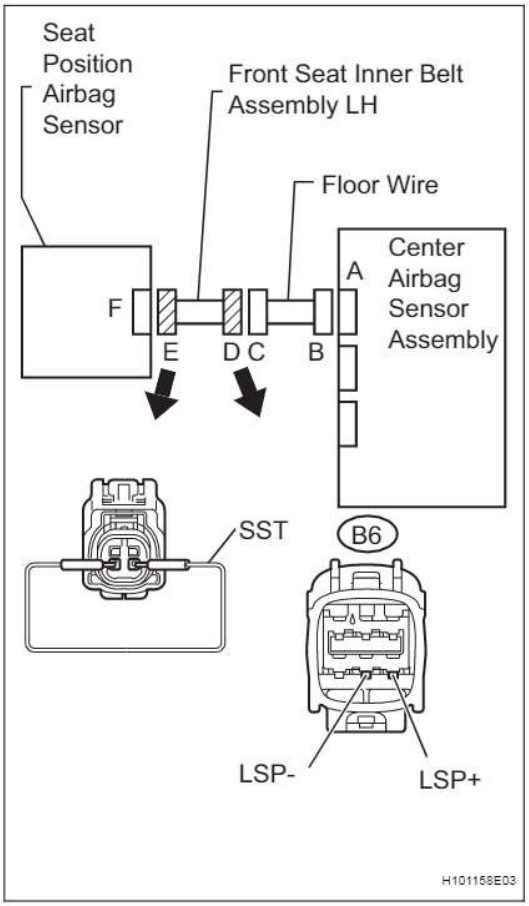
NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

END

RS

| 11 | CHECK WIRE HARNESS (SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT ASSEMBLY LH) |
|---|---|




(a) Disconnect the front seat inner belt LH connector from the floor wire.
HINT:
The terminals of connector "E" have already been connected with each other using SST.
**SST 09843-18040**

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

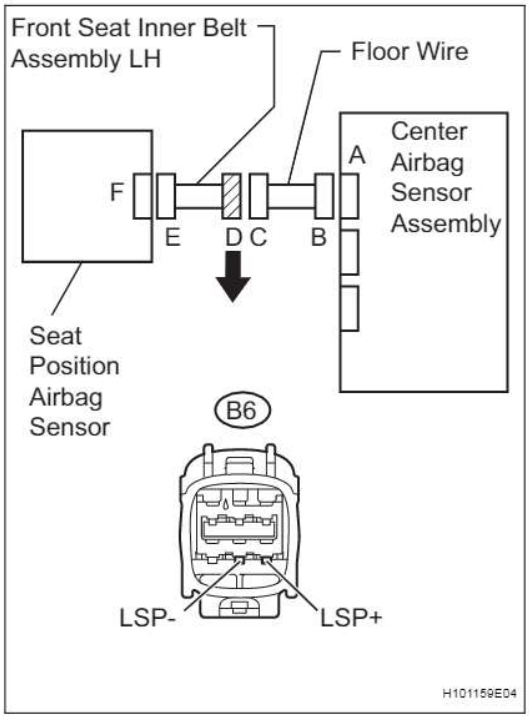
| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| B6-4 (LSP+) - B6-5 (LSP-) | Below 1 Ω |

NG → **REPAIR OR REPLACE WIRE HARNESS (SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT LH)**

OK

**REPAIR OR REPLACE FLOOR WIRE (CENTER AIRBAG SENSOR - FRONT SEAT INNER BELT LH)**

| 12 | CHECK WIRE HARNESS (SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT LH) |
|---|---|




(a) Disconnect the front seat inner belt LH connector from the floor wire.

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

**Standard resistance**

| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| B6-4 (LSP+) - Body ground | 1 MΩ or higher |
| B6-5 (LSP-) - Body ground | 1 MΩ or higher |

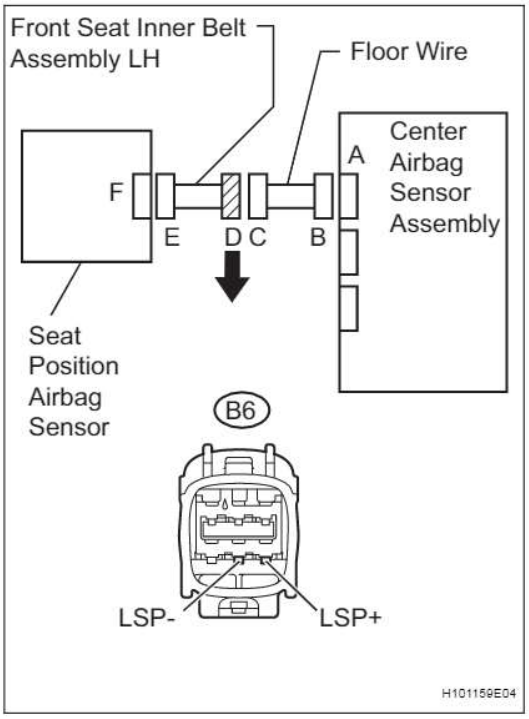
NG → REPAIR OR REPLACE WIRE HARNESS (SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT LH)

OK

REPAIR OR REPLACE FLOOR WIRE (CENTER AIRBAG SENSOR - FRONT SEAT INNER BELT LH)

| 13 | CHECK WIRE HARNESS (SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT LH) |
|---|---|

RS




(a) Disconnect the front seat inner belt LH connector from the floor wire.

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

**Standard resistance**

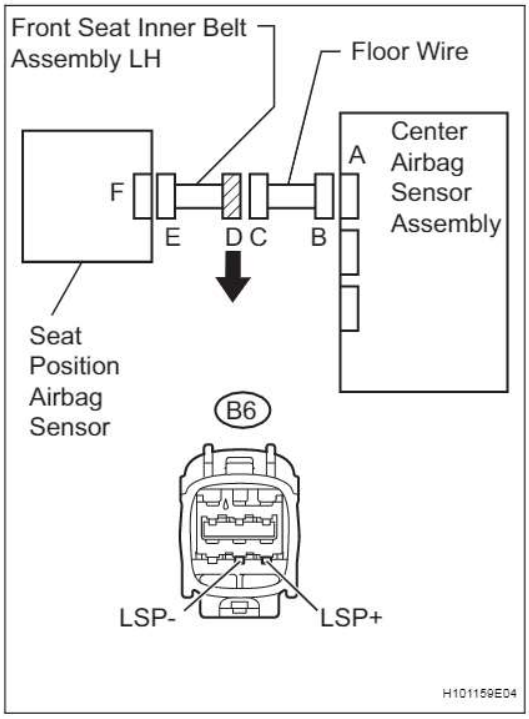
| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| B6-4 (LSP+) - B6-5 (LSP-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE WIRE HARNESS (SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT LH)**

OK

**REPAIR OR REPLACE FLOOR WIRE (CENTER AIRBAG SENSOR - FRONT SEAT INNER BELT LH)**

| 14 | CHECK WIRE HARNESS (SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the front seat inner belt LH connector from the floor wire.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the resistance according to the value(s) in the table below.

**Standard voltage**

| Tester Connection (Connector "D") | Condition | Specified Condition |
|---|---|---|
| B6-4 (LSP+) - Body ground | Ignition switch ON | Below 1 V |
| B6-5 (LSP-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE WIRE HARNESS (SEAT POSITION AIRBAG SENSOR - FRONT SEAT INNER BELT LH)

OK

REPAIR OR REPLACE FLOOR WIRE (CENTER AIRBAG SENSOR - FRONT SEAT INNER BELT LH)

| DTC | B1154/38 | Rear Airbag Sensor RH Circuit Malfunction |
|---|---|---|

## DESCRIPTION

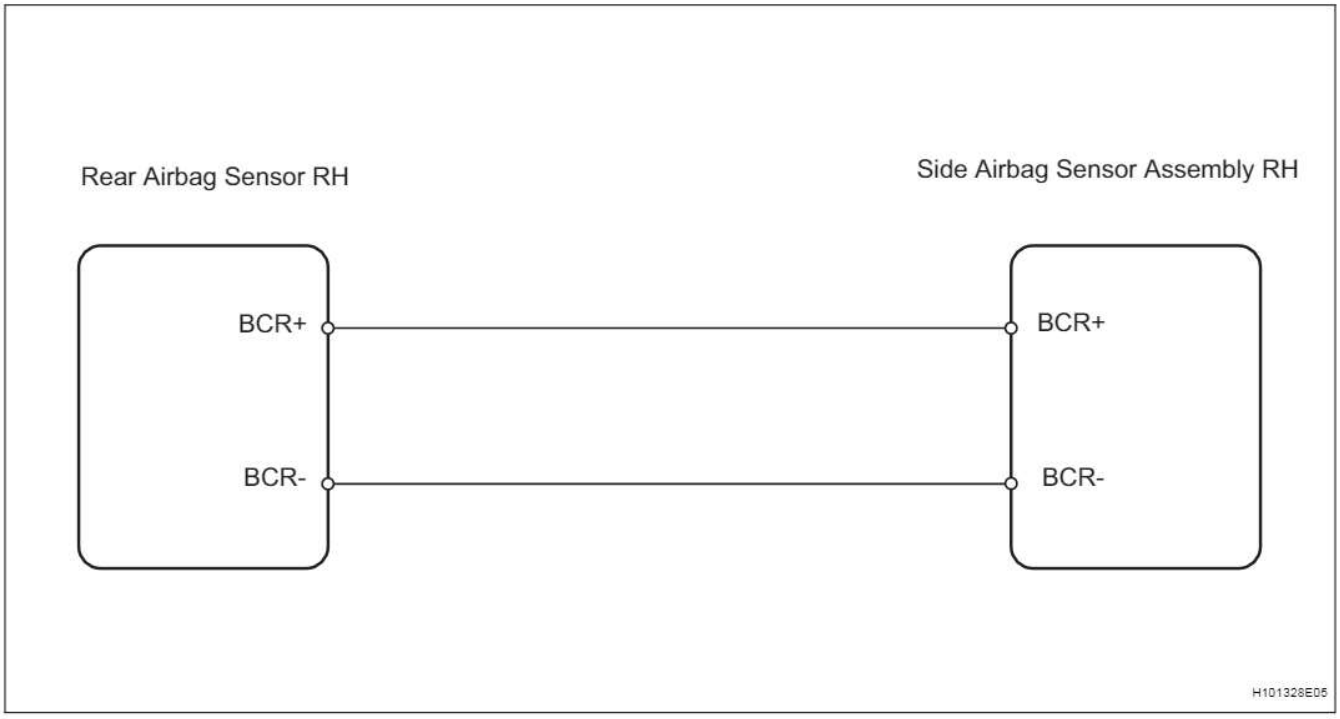


The rear airbag sensor RH consists of the safing sensor, diagnosis circuit, and lateral deceleration sensor. If the center airbag sensor assembly receives the signals from the lateral deceleration sensor signal in the rear airbag sensor RH, it judges whether or not the SRS should be activated.
DTC B1154/38 is recorded when occurrence of a malfunction in the rear airbag sensor RH is detected.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1154/38 | • Open circuit in BCR+ wire harness or BCR- wire harness of rear airbag sensor RH<br>• Rear airbag sensor RH malfunction | • Rear airbag sensor RH<br>• Side airbag sensor assembly RH<br>• Center airbag sensor assembly<br>• Floor wire |

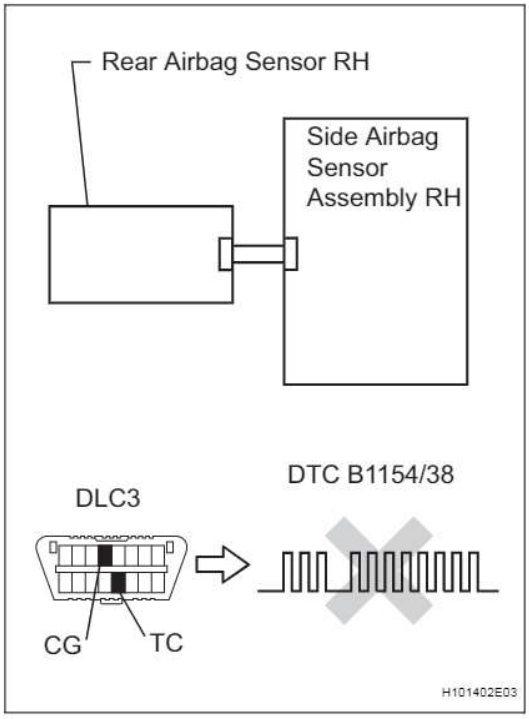
HINT:
DTC B1154/38 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DTC |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).

**OK:**

**DTC B1154/38 is output.**

HINT:

Codes other than code B1154/38 may be output at this time, but they are not relevant to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

| 2 | CHECK CONNECTION OF CONNECTOR |
|---|---|

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the side airbag sensor RH and the rear airbag sensor RH.

**OK:**

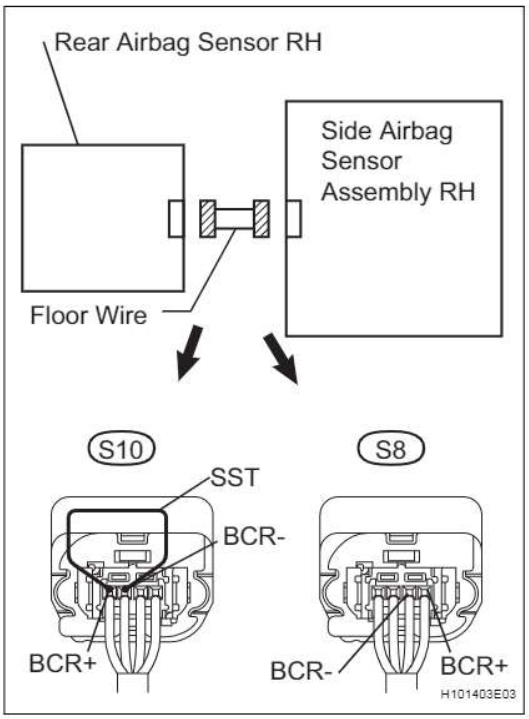
**The connectors are connected.**

NG → **CONNECT CONNECTOR**

OK

RS

## 3 CHECK FLOOR WIRE (OPEN)



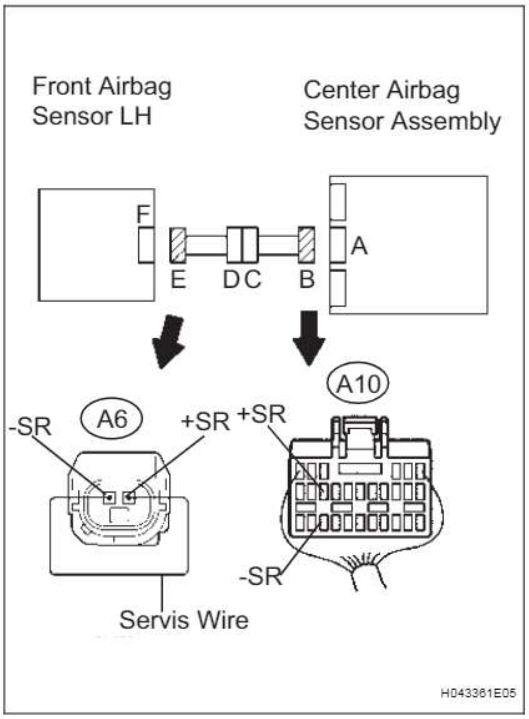

(a) Disconnect the connectors from the side airbag sensor RH and the rear airbag sensor RH.
(b) Using SST, connect terminals BCR+ and BCR- of connector "C".
**SST 09843-18040**
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**
(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| S8-1 (BCR+) - S8-2 (BCR-) | Below 1 Ω |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 4 CHECK REAR AIRBAG SENSOR RH



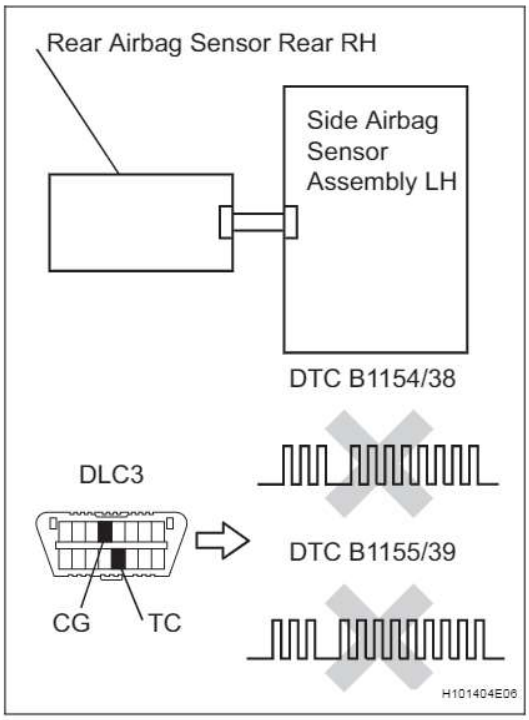

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the side airbag sensor RH.
(d) Interchange the rear airbag sensor RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).
**A:**
**DTC B1154/38 is output or DTC B1154/38 and DTC B1155/39 are output.**
**B:**
**DTC B1155/39 is output.**
**C:**
**DTC B1154/38 and DTC B1155/39 are not output.**

B → **REPLACE REAR AIRBAG SENSOR RH**

C → USE SIMULATION METHOD TO CHECK

A

**5 CHECK SIDE AIRBAG SENSOR ASSEMBLY RH (TO GROUND)**




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Return the interchanged rear airbag sensor RH and LH to their original positions and connect the connectors.
(d) Interchange the rear airbag sensor RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**A:**
**DTC B1154/38 is output or DTC B1154/38 and DTC B1155/39 are output.**

**B:**
**DTC B1155/39 is output.**

**C:**
**DTC B1154/38 and DTC B1155/39 are not output.**

A → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

B → **REPLACE SIDE AIRBAG SENSOR ASSEMBLY RH**

C

**USE SIMULATION METHOD TO CHECK**

| DTC | B1155/39 | Rear Airbag Sensor LH Circuit Malfunction |
|---|---|---|

## DESCRIPTION

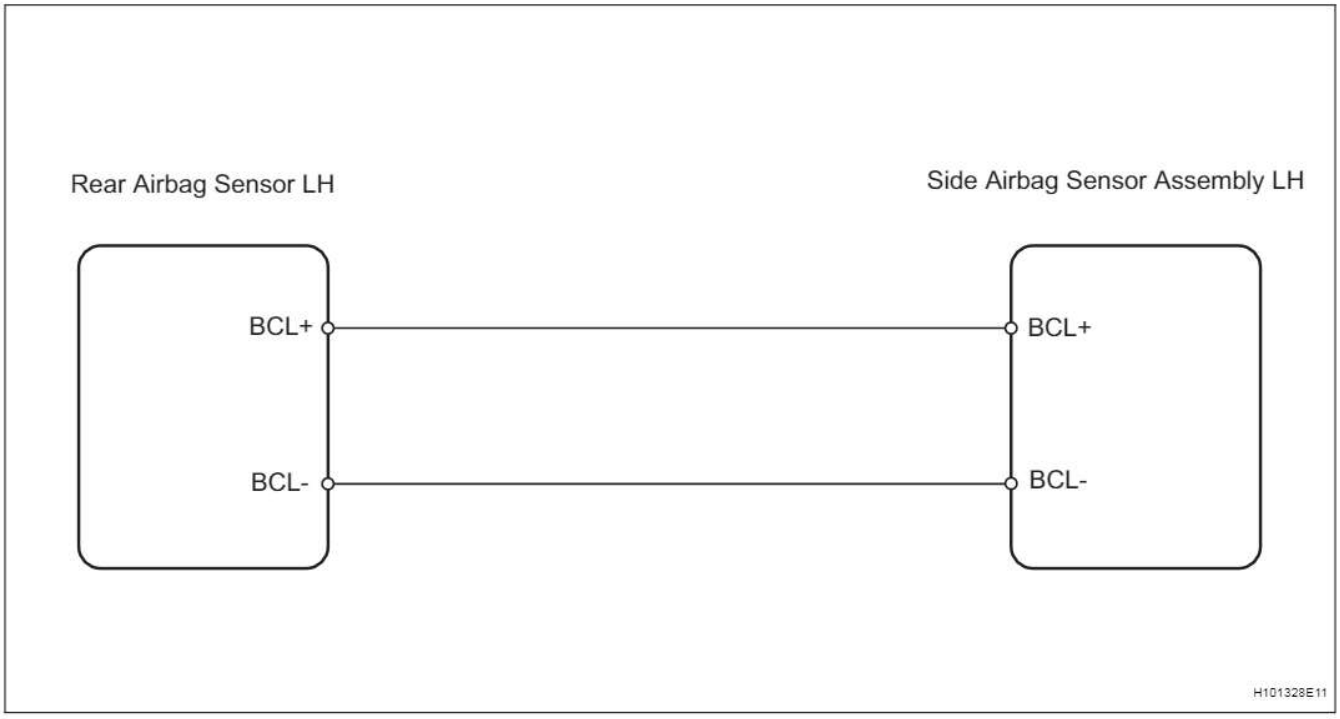
The rear airbag sensor LH consists of the safing sensor, diagnosis circuit, and lateral deceleration sensor. If the center airbag sensor assembly receives the signals from the lateral deceleration sensor signal in the rear airbag sensor LH, it judges whether or not the SRS should be activated.
DTC B1155/39 is recorded when occurrence of a malfunction in the rear airbag sensor LH is detected.

RS

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1155/39 | • Open circuit in BCL+ wire harness or BCL- wire harness of rear airbag sensor LH<br>• Rear airbag sensor LH malfunction | • Rear airbag sensor LH<br>• Side airbag sensor assembly LH<br>• Center airbag sensor assembly<br>• Floor wire |

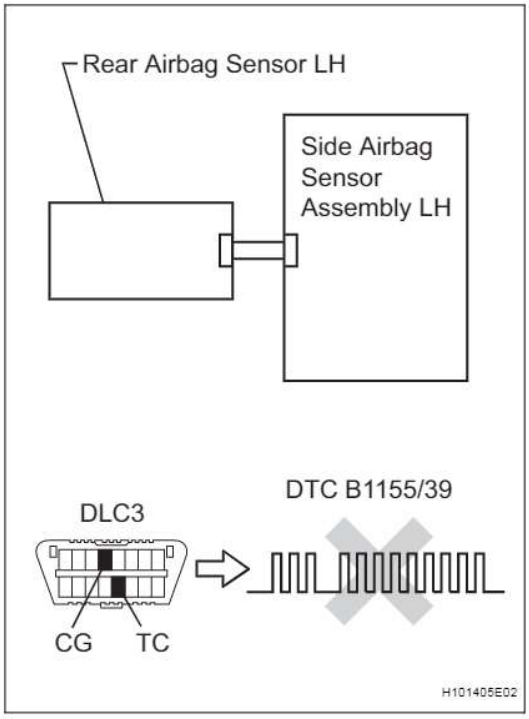
HINT:
DTC B1155/39 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DTC |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).

**OK:**

**DTC B1155/39 is output.**

HINT:

Codes other than code B1155/39 may be output at this time, but they are not relevant to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

| 2 | CHECK CONNECTION OF CONNECTOR |
|---|---|

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the side airbag sensor LH and the rear airbag sensor LH.

**OK:**

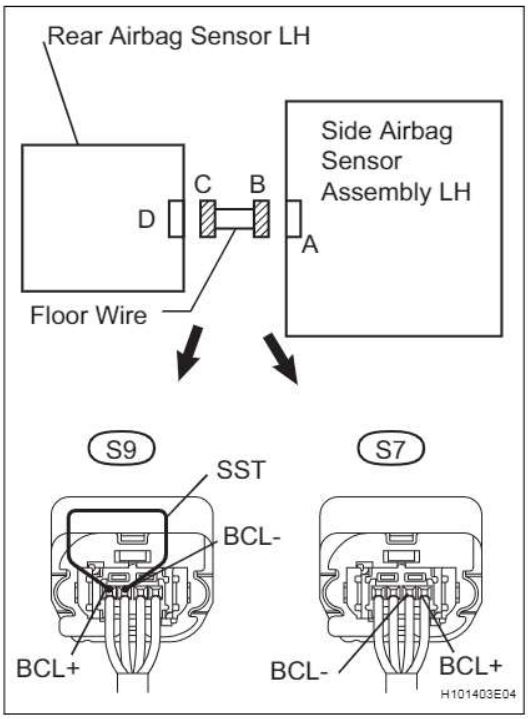
**The connectors are connected.**

NG → **CONNECT CONNECTOR**

OK

RS

## 3 CHECK FLOOR WIRE (OPEN)




(a) Disconnect the connectors from the side airbag sensor LH and the rear airbag sensor LH.
(b) Using SST, connect terminals BCL+ and BCL- of connector "C".

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

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

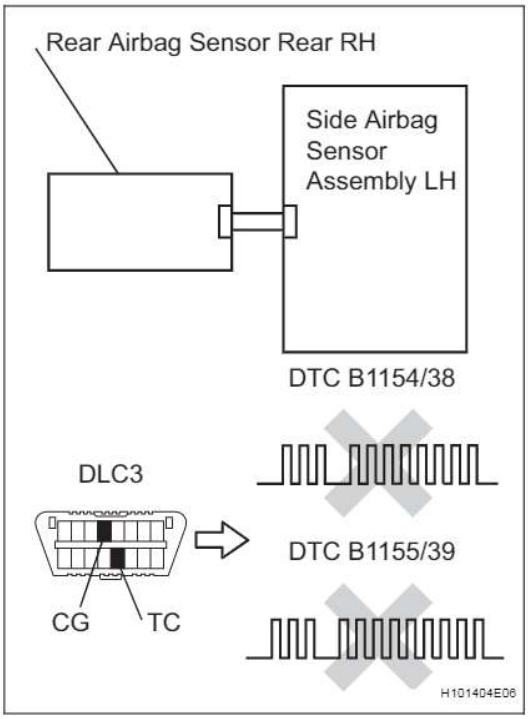
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| S7-1 (BCL+) - S7-2 (BCL-) | Below 1 Ω |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 4 CHECK REAR AIRBAG SENSOR LH




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the side airbag sensor LH.
(d) Interchange the rear airbag sensor RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**A:**
**DTC B1154/38 is output.**

**B:**
**DTC B1155/39 is output or DTC B1154/38 and DTC B1155/39 are output.**

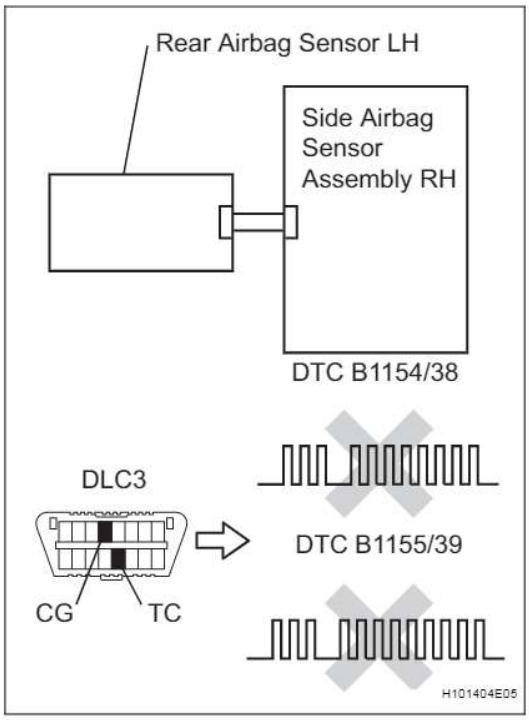
**C:**
**DTC B1154/38 and DTC B1155/39 are not output.**

A → **REPLACE REAR AIRBAG SENSOR LH**

C → USE SIMULATION METHOD TO CHECK

B

**5 CHECK SIDE AIRBAG SENSOR ASSEMBLY RH (TO GROUND)**




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Return the interchanged rear airbag sensor RH and LH to their original positions and connect the connectors.
(d) Interchange the rear airbag sensor RH with LH and connect the connectors to them.
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**A:**
**DTC B1154/38 is output.**

**B:**
**DTC B1155/39 is output or DTC B1154/38 and DTC B1155/39 are output.**

**C:**
**DTC B1154/38 and DTC B1155/39 are not output.**

A → REPLACE SIDE AIRBAG SENSOR ASSEMBLY LH

B → CENTER AIRBAG SENSOR ASSEMBLY

C

USE SIMULATION METHOD TO CHECK

| DTC | B1156/15 | Front Airbag Sensor RH Malfunction |
|---|---|---|

| DTC | B1157/15 | Front Airbag Sensor RH Malfunction |
|---|---|---|

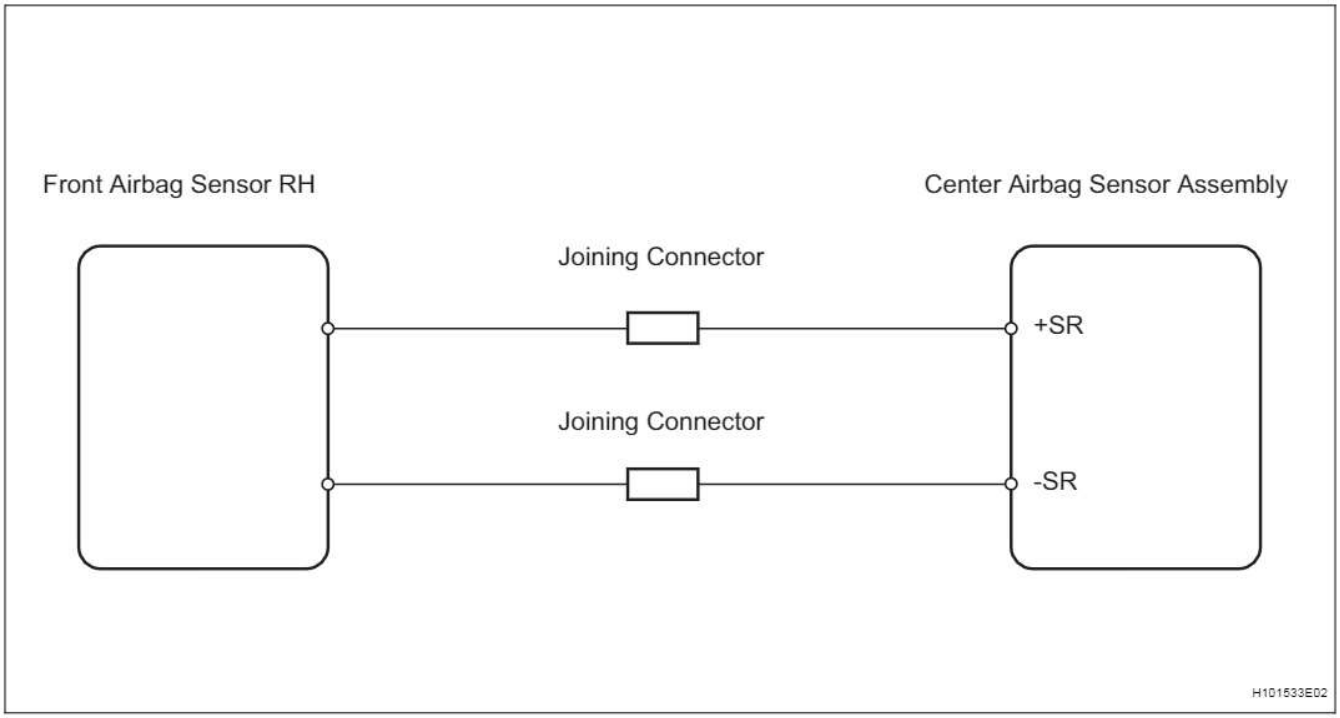
RS

## DESCRIPTION

The front airbag sensor RH circuit consists of the center airbag sensor assembly and front airbag sensor RH. DTC B1156/15 or B1157/15 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

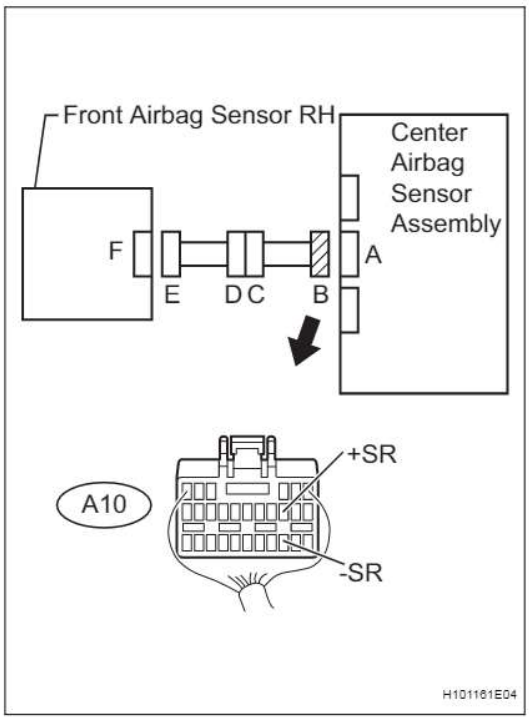
| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B1156/15<br>B1157/15 | • Short circuit in front airbag sensor RH wire harness (to B+)<br>• Short circuit in front airbag sensor RH wire harness (to ground)<br>• Short circuit between +SR wire harness and -SR wire harness of front airbag sensor RH<br>• Open circuit in +SR wire harness or -SR wire harness of front airbag sensor RH<br>• Front airbag sensor RH malfunction<br>• Center airbag sensor assembly malfunction | • Front airbag sensor RH<br>• Center airbag sensor assembly<br>• Instrument panel wire<br>• Engine room main wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (TO B+) (CENTER AIRBAG SENSOR - FRONT AIRBAG SENSOR RH) |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors between the center airbag sensor assembly and the front airbag sensor RH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

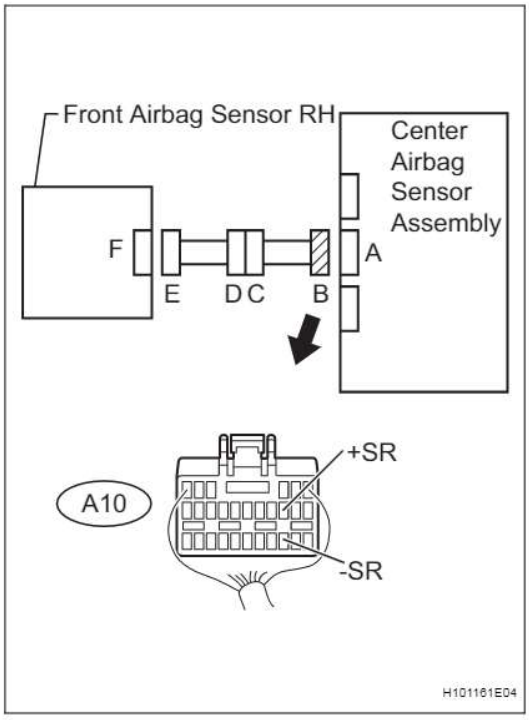
**Standard voltage**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A10-9 (+SR) - Body ground | Ignition switch ON | Below 1 V |
| A10-20 (-SR) - Body ground | Ignition switch ON | Below 1 V |

NG → Go to step 7

OK

| 2 | CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (TO GROUND) (CENTER AIRBAG SENSOR - FRONT AIRBAG SENSOR RH) |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

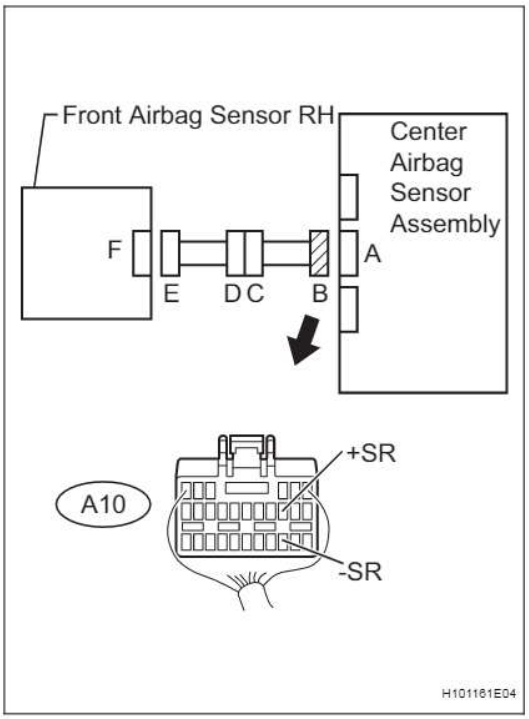
| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A10-9 (+SR) - Body ground | 1 MΩ or Higher |
| A10-20 (-SR) - Body ground | 1 MΩ or Higher |

NG → Go to step 8

OK

| 3 | CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (SHORT) (CENTER AIRBAG SENSOR - FRONT AIRBAG SENSOR RH) |
|---|---|

RS




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

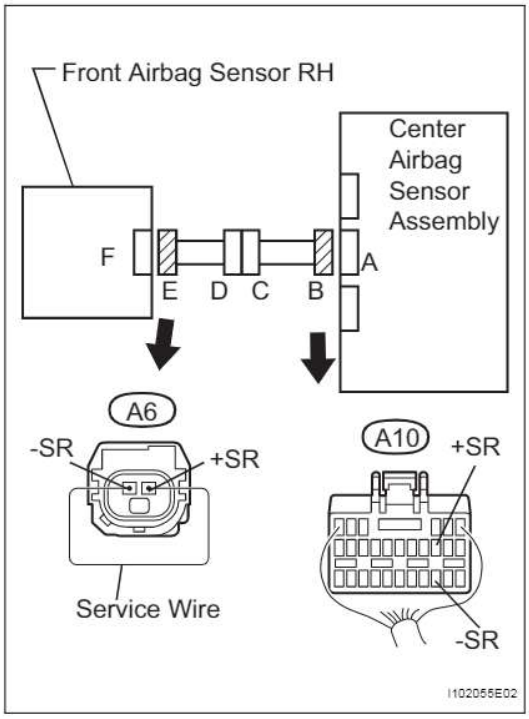
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A10-9 (+SR) - A10-20 (-SR) | 1 MΩ or higher |

NG → Go to step 9

OK

## 4 CHECK FRONT AIRBAG SENSOR (RH) CIRCUIT (OPEN) (CENTER AIRBAG SENSOR ASSEMBLY - FRONT AIRBAG SENSOR RH)




(a) Using a service wire, connect terminals +SR and -SR of connector "E".

**NOTICE:**

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

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

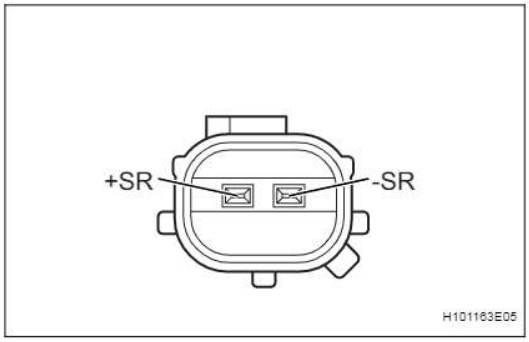
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A10-9 (+SR) - A10-20 (-SR) | Below 1 Ω |

NG → **Go to step 10**

OK

## 5 INSPECT FRONT AIRBAG SENSOR RH




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

**Standard resistance**

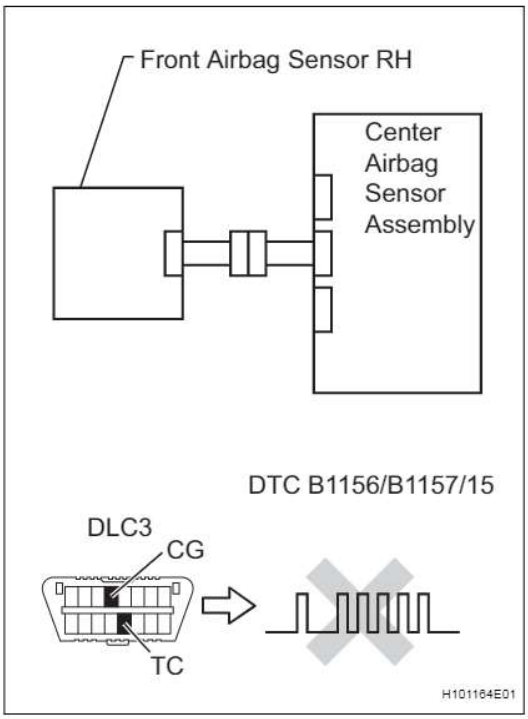
| Tester Connection | Specified Condition |
|---|---|
| +SR - -SR | 738 to 902 Ω |

NG → **REPLACE FRONT AIRBAG SENSOR RH**

OK

RS

| 6 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connectors to the front airbag sensor RH and the center airbag sensor assembly.
(b) Reconnect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the stored DTCs in the memory (see page RS-30).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (see page RS-30).

**OK:**

**DTC B1156/15 or B1157/15 is not output.**

HINT:

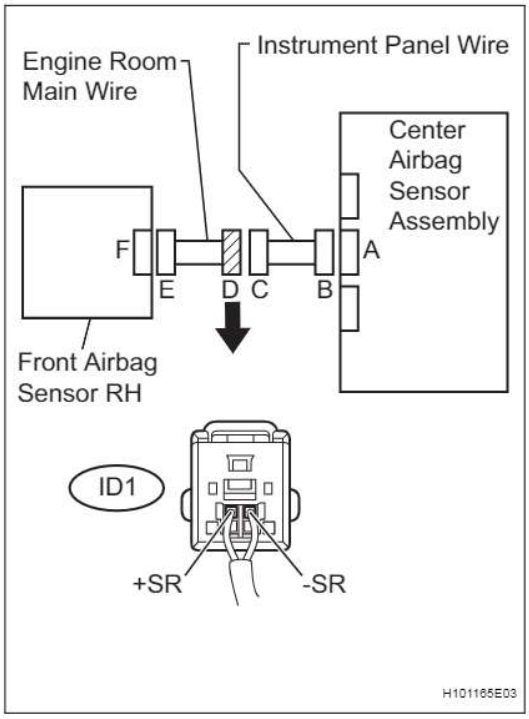
Codes other than code B1156/15 or B1157/15 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK →

**USE SIMULATION METHOD TO CHECK**

| 7 | CHECK ENGINE ROOM MAIN WIRE (TO B+) (CONNECTOR - FRONT AIRBAG SENSOR RH) |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the engine room main wire connector from the instrument panel wire.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

| Tester Connection (Connector "D") | Condition | Specified Condition |
|---|---|---|
| ID1-2 (+SR) - Body ground | Ignition switch ON | Below 1 V |
| ID1-1 (-SR) - Body ground | Ignition switch ON | Below 1 V |

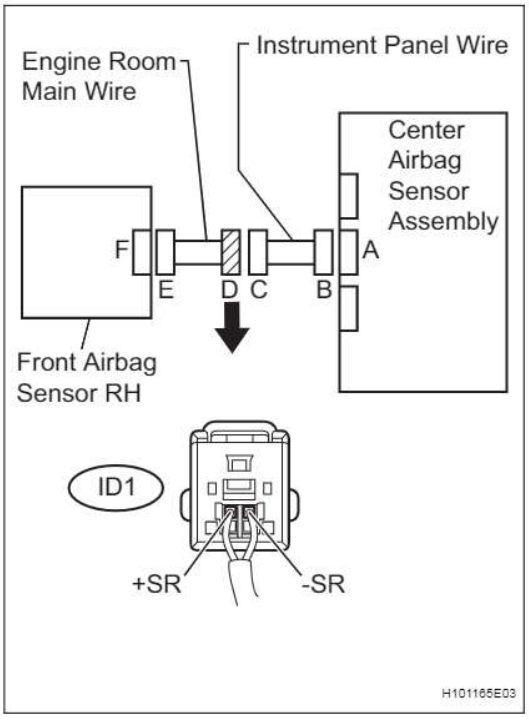
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

RS

| 8 | CHECK ENGINE ROOM MAIN WIRE (TO GROUND) (CONNECTOR - FRONT AIRBAG SENSOR RH) |
|---|---|




(a) Disconnect the engine room main wire connector from the instrument panel wire.

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

**Standard resistance**

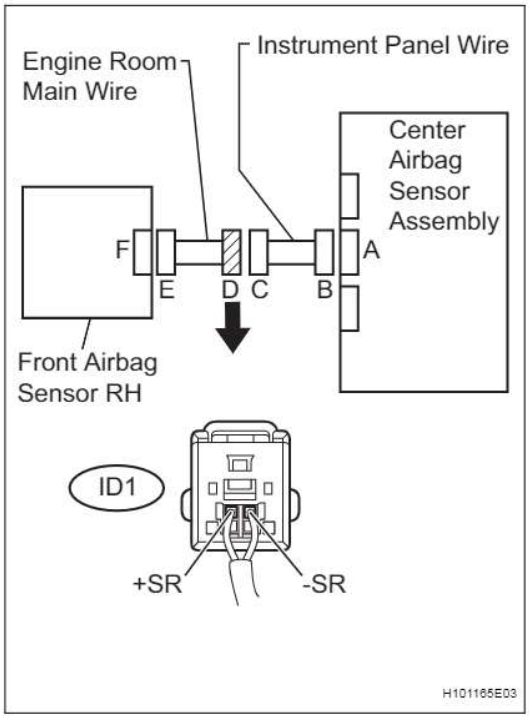
| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| ID1-2 (+SR) - Body ground | 1 MΩ or higher |
| ID1-1 (-SR) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| 9 | CHECK ENGINE ROOM MAIN WIRE (SHORT) (CONNECTOR - FRONT AIRBAG SENSOR RH) |
|---|---|




(a) Disconnect the engine room main wire connector from the instrument panel wire.

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

**Standard resistance**

| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| ID1-2 (+SR) - ID1-1 (-SR) | 1 MΩ or higher |

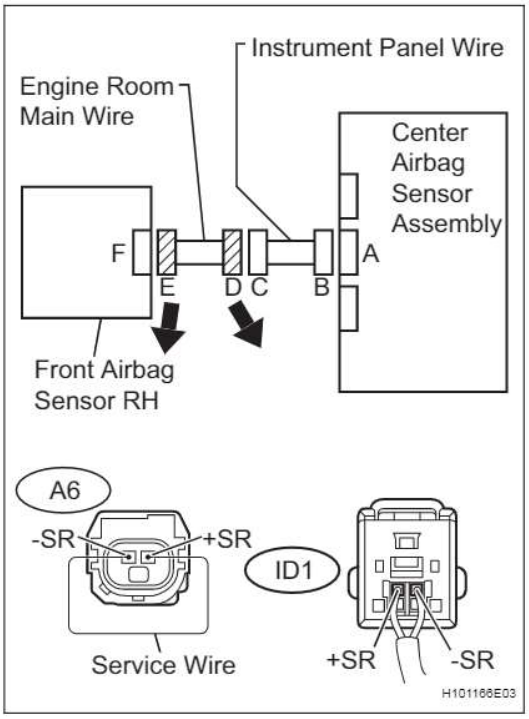
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

RS

| 10 | CHECK ENGINE ROOM MAIN WIRE (OPEN) (CONNECTOR - FRONT AIRBAG SENSOR RH) |
|---|---|




(a) Disconnect the engine room main wire connector from the instrument panel wire.
HINT:
Terminals +SR and -SR of connector "E" have already been connected with each other using the service wire.

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

**Standard resistance**

| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| ID1-2 (+SR) - ID1-1 (-SR) | Below 1 Ω |

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| DTC | B1158/16 | Front Airbag Sensor LH Malfunction |
|---|---|---|

| DTC | B1159/16 | Front Airbag Sensor LH Malfunction |
|---|---|---|

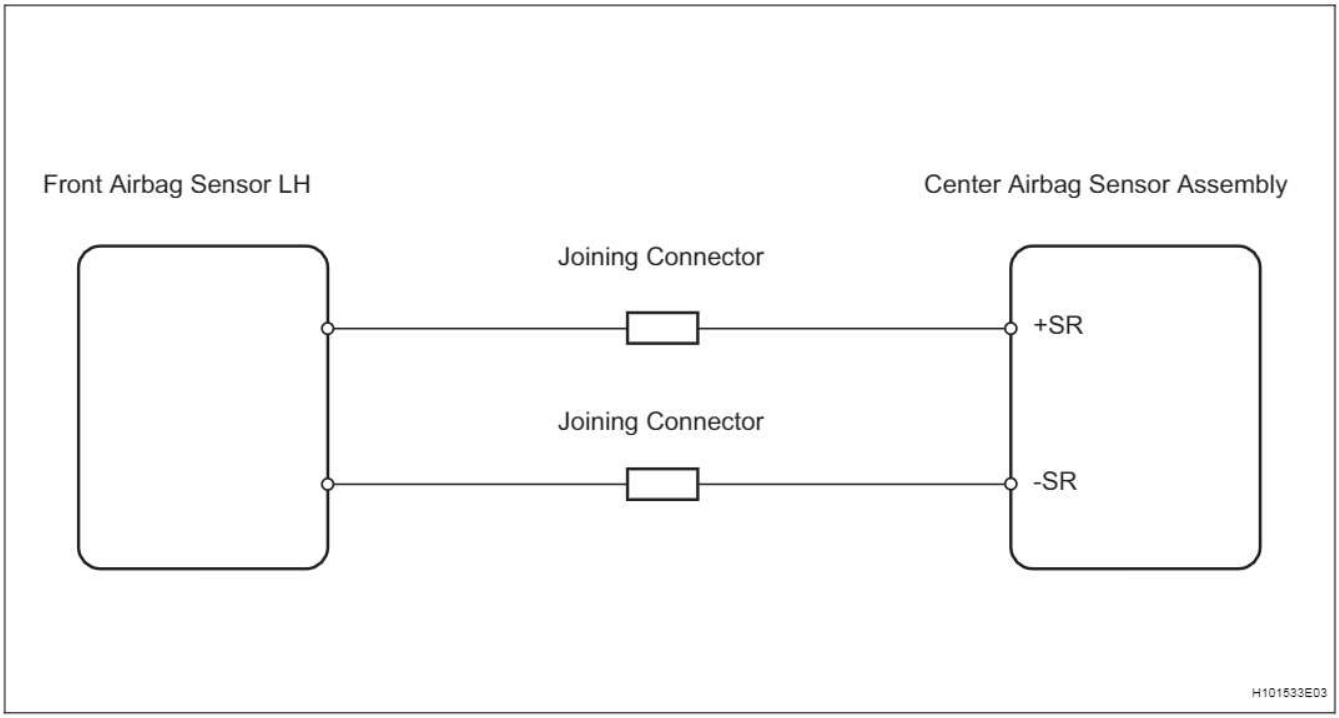
## DESCRIPTION



The front airbag sensor LH circuit consists of the center airbag sensor assembly and front airbag sensor LH. DTC B1158/16 or B1159/16 is recorded when malfunction is detected in the front airbag sensor LH circuit.

| DTC No. | DTC Detecting Condition | Trouble Area |
|---|---|---|
| B1158/16<br>B1159/16 | • Short circuit in front airbag sensor LH wire harness (to B+)<br>• Short circuit in front airbag sensor LH wire harness (to ground)<br>• Short circuit between +SL wire harness and -SL wire harness of front airbag sensor LH<br>• Open circuit in +SL wire harness or -SL wire harness of front airbag sensor LH<br>• Front airbag sensor LH malfunction<br>• Center airbag sensor assembly malfunction | • Front airbag sensor LH<br>• Center airbag sensor assembly<br>• Instrument panel wire<br>• Engine room main wire |

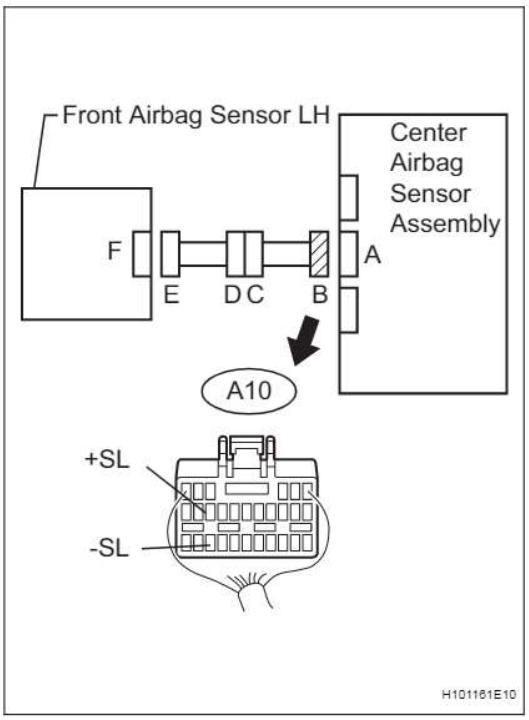
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT (TO B+) (CENTER AIRBAG SENSOR - FRONT AIRBAG SENSOR LH) |
|---|---|

RS




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors between the center airbag sensor assembly and the front airbag sensor LH.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

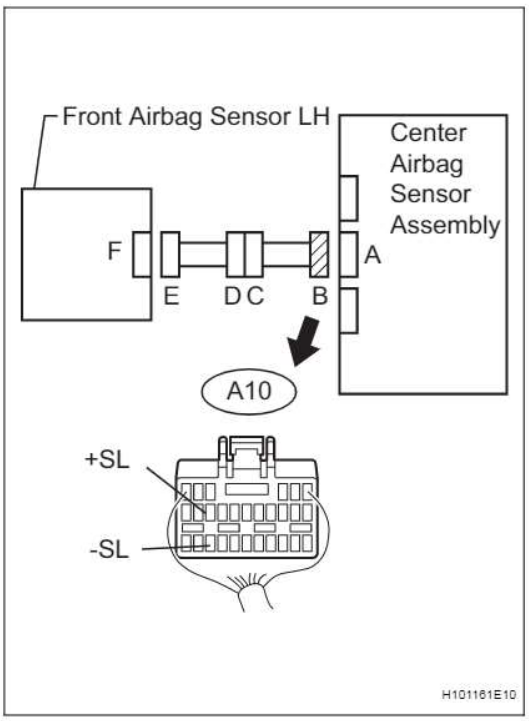
**Standard voltage**

| Tester Connection (Connector "B") | Condition | Specified Condition |
|---|---|---|
| A10-15 (+SL) - Body ground | Ignition switch ON | Below 1 V |
| A10-26 (-SL) - Body ground | Ignition switch ON | Below 1 V |

NG → Go to step 7

OK

| 2 | CHECK FRONT AIRBAG (LH) CIRCUIT (TO GROUND) (CENTER AIRBAG SENSOR ASSEMBLY - FRONT AIRBAG SENSOR LH) |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Measure the resistance according to the value(s) in the table below.

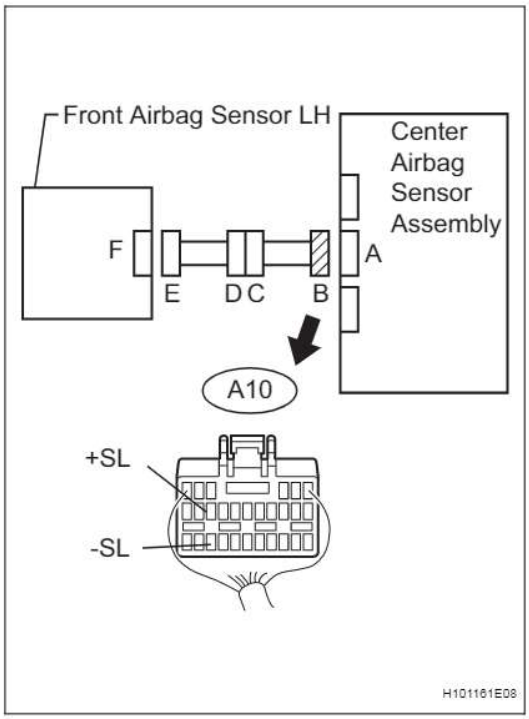
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A10-15 (+SL) - Body ground | 1 MΩ or higher |
| A10-26 (-SL) - Body ground | 1 MΩ or higher |

NG → Go to step 8

OK

| 3 | CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT (SHORT) (CENTER AIRBAG SENSOR - FRONT AIRBAG SENSOR LH) |
|---|---|




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

**Standard resistance**

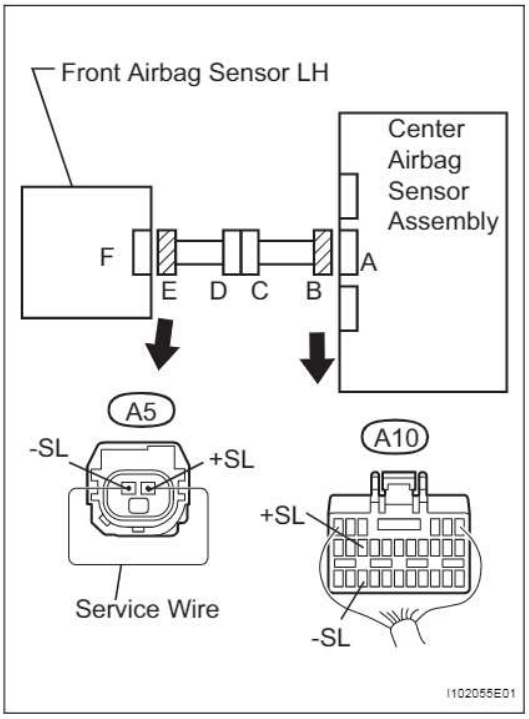
| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A10-15 (+SL) - A10-26 (-SL) | 1 MΩ or higher |

NG → Go to step 9

OK

RS

| 4 | CHECK FRONT AIRBAG SENSOR (LH) CIRCUIT (OPEN) (CENTER AIRBAG SENSOR ASSEMBLY - FRONT AIRBAG SENSOR LH) |
|---|---|




(a) Using a service wire, connect terminals +SL and -SL of connector "E".
**NOTICE:**
**Do not forcibly insert a service wire into the terminals of the connector when connecting.**

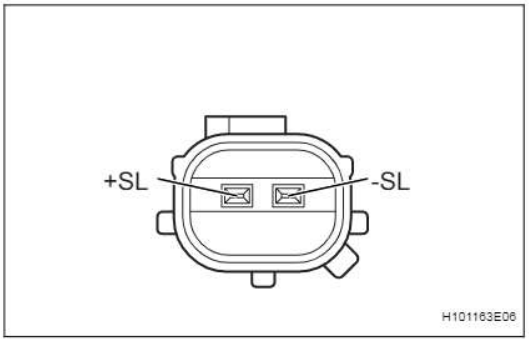
(b) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection (Connector "B") | Specified Condition |
|---|---|
| A10-15 (+SL) - A10-26 (-SL) | Below 1 Ω |

NG → **Go to step 10**

OK

| 5 | INSPECT FRONT AIRBAG SENSOR LH |
|---|---|



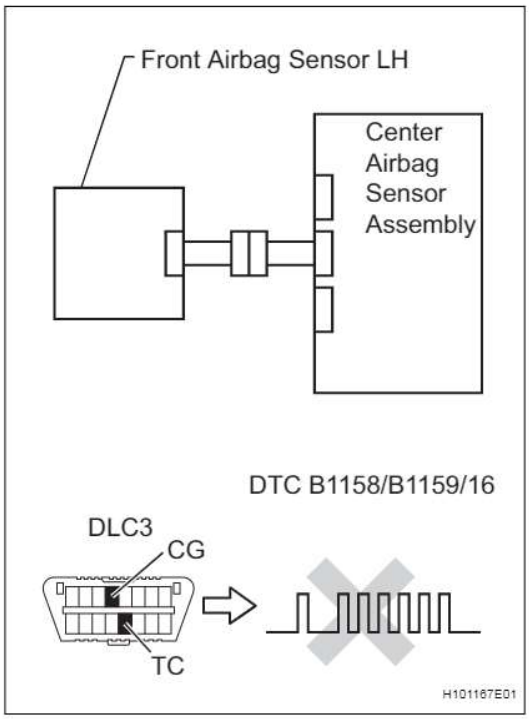

(a) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| +SL - -SL | 738 to 902 Ω |

NG → **REPLACE FRONT AIRBAG SENSOR LH**

OK

| 6 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connectors to the front airbag sensor LH and the center airbag sensor assembly.
(b) Reconnect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in the memory (see page RS-30).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (see page RS-30).

**OK:**

**DTC B1158/16 or B1159/16 is not output.**

HINT:

Codes other than code B1158/16 or B1159/16 may be output at this time, but they are not related to this check.

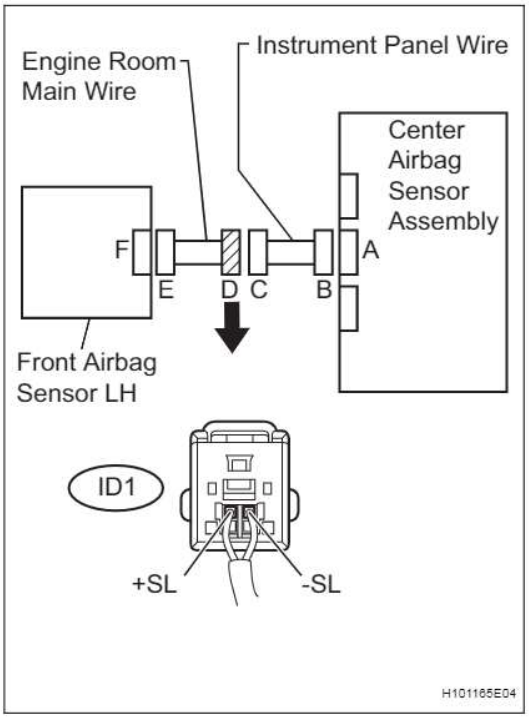
NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK →

**USE SIMULATION METHOD TO CHECK**

RS

| 7 | CHECK ENGINE ROOM MAIN WIRE (TO B+) (CONNECTOR - FRONT AIRBAG SENSOR LH) |
|---|---|




(a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the engine room main wire connector from the instrument panel wire.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

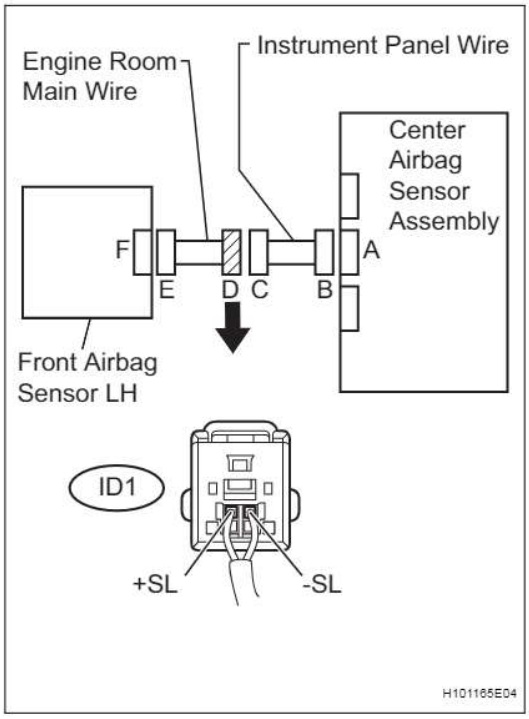
| Tester Connection (Connector "D") | Condition | Specified Condition |
|---|---|---|
| ID1-4 (+SL) - Body ground | Ignition switch ON | Below 1 V |
| ID1-3 (-SL) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| 8 | CHECK ENGINE ROOM MAIN WIRE (TO GROUND) (CONNECTOR - FRONT AIRBAG SENSOR LH) |
|---|---|




(a) Disconnect the engine room main wire connector from the instrument panel wire.

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

**Standard resistance**

| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| ID1-4 (+SL) - Body ground | 1 MΩ or higher |
| ID1-3 (-SL) - Body ground | 1 MΩ or higher |

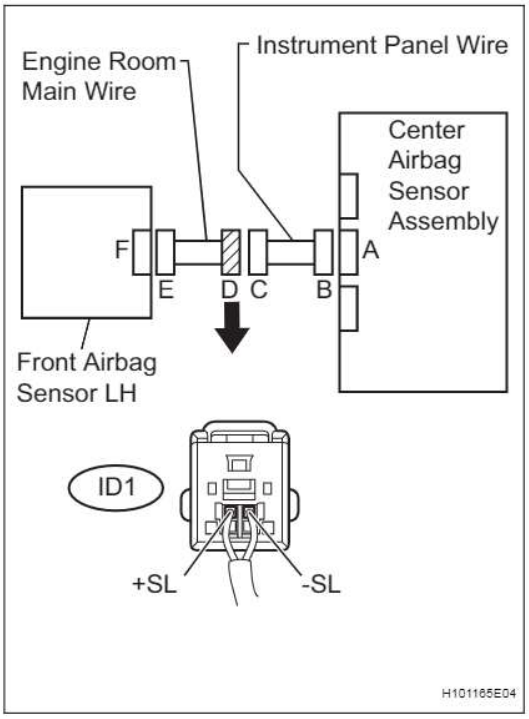
NG → REPAIR OR REPLACE ENGINE ROOM MAIN WIRE

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

| 9 | CHECK ENGINE ROOM MAIN WIRE (SHORT) (CONNECTOR - FRONT AIRBAG SENSOR LH) |
|---|---|




(a) Disconnect the engine room main wire connector from the instrument panel wire.

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

**Standard resistance**

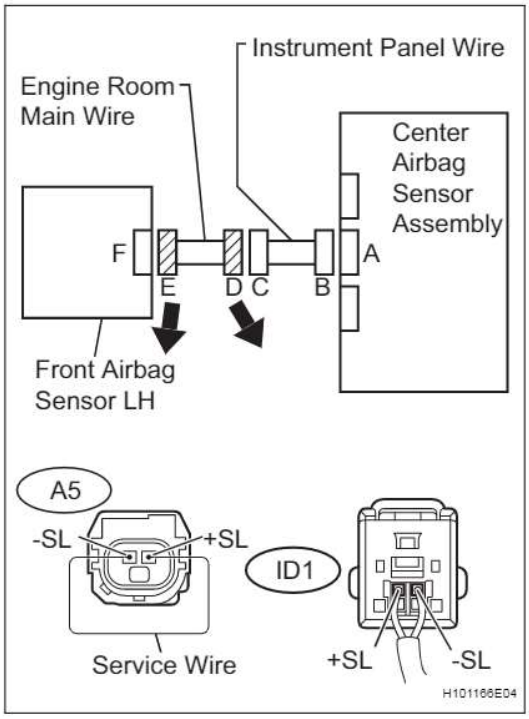
| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| ID1-4 (+SL) - ID1-3 (-SL) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| 10 | CHECK ENGINE ROOM MAIN WIRE (OPEN) (CONNECTOR - FRONT AIRBAG SENSOR LH) |
|---|---|




(a) Disconnect the engine room main wire connector from the instrument panel wire.
HINT:
Terminals +SL and -SL of connector "E" have already been connected with each other using the service wire.

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

**Standard resistance**

| Tester Connection (Connector "D") | Specified Condition |
|---|---|
| ID1-4 (+SL) - ID1-3 (-SL) | Below 1 Ω |

NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

**REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

| DTC | B1160/83 | Short in Curtain Shield Squib RH Circuit |
|---|---|---|

## DESCRIPTION

The curtain shield squib RH circuit consists of the center airbag sensor and the curtain shield airbag RH. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

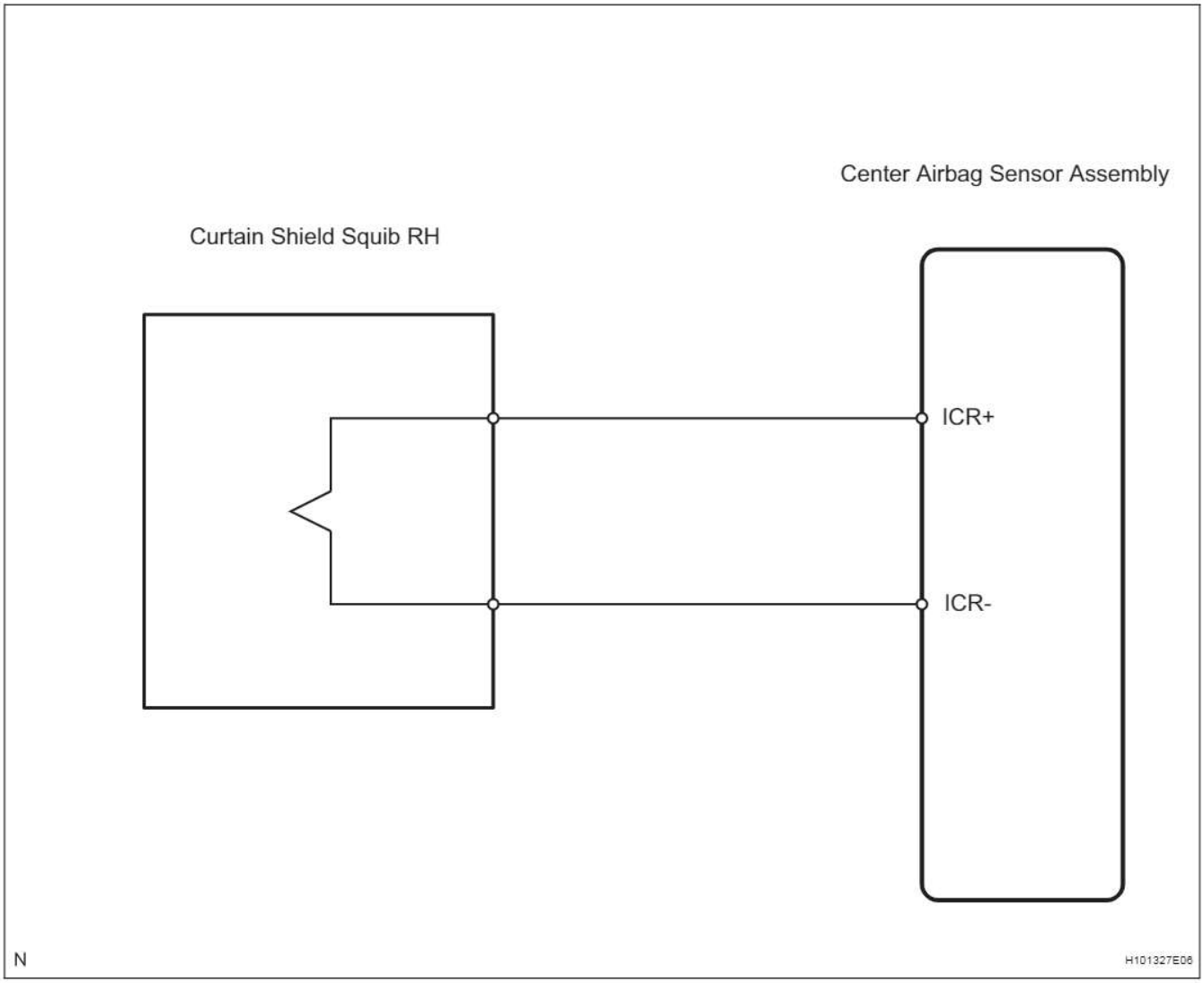
DTC B1160/83 is recorded when a short is detected in the curtain shield squib RH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1160/83 | • Short circuit between ICR+ wire harness and ICR- wire harness of curtain shield squib RH<br>• Curtain shield squib RH malfunction<br>• Center airbag sensor malfunction | • Curtain shield airbag assembly RH (Curtain shield squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

DTC B1160/83 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

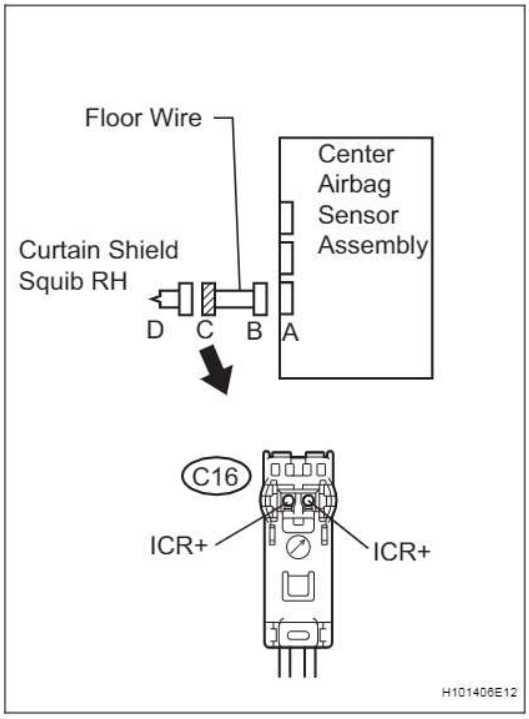
| 1 | CHECK CONNECTOR |
|---|---|

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connector from the curtain shield airbag RH.
(d) Check that the floor wire connector (on the curtain shield airbag RH side) is not damaged.
**OK:**
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

| 2 | CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the connector from the center airbag sensor.
(c) Release the activation prevention mechanism built into connector "B" (see page RS-18).
(d) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

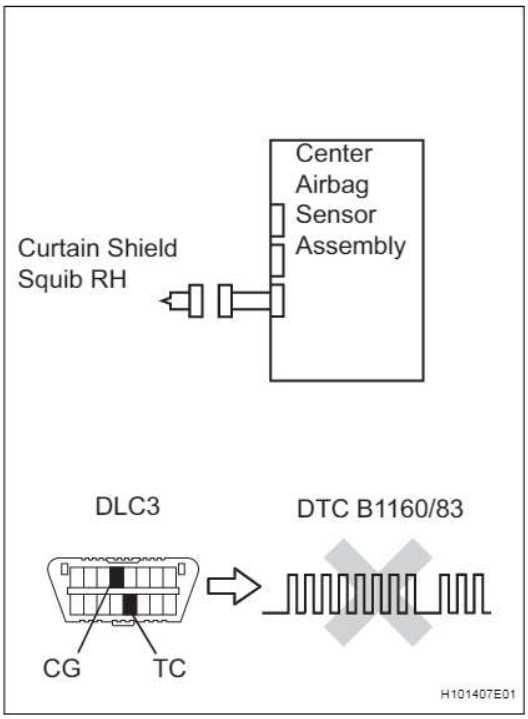
| Tester connection (Connector "C") | Specified Condition |
|---|---|
| C16-1 (ICR+) - C16-2 (ICR-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

| 3 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B1160/83 is not output.**

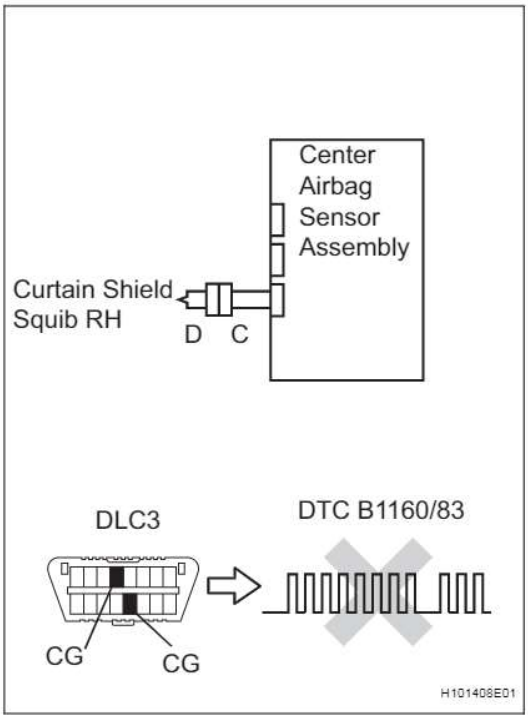
HINT:

Codes other than code B1160/83 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 4 | CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the curtain shield airbag RH (curtain shield squib RH) connector.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B1160/83 is not output.**

HINT:

Codes other than code B1160/83 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH**

OK

| USE SIMULATION METHOD TO CHECK |
|---|

# DATA LIST / ACTIVE TEST

HINT:
By accessing the DATA LIST displayed on the intelligent tester, you can perform such functions as reading the values of switches and sensors without removing any parts. Reading the DATA LIST is the first step of troubleshooting and is one method to save time.



**1. DATA LIST FOR CENTER AIRBAG SENSOR ASSEMBLY**

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Following the display on the tester screen, read the "DATA LIST".

**Center airbag sensor assembly:**

| Item | Measurement Item/ Range (Display) | Normal Condition | Diagnostic Note |
|---|---|---|---|
| D SEAT POSITION | Seat position (Driver side)/ FORWARD: Seat is in position that is toward front BKWARD: Seat is in position that is toward rear FAIL: Failure detected | FORWARD/BKWARD | - |
| PASSENGER DETEC | Passenger detection/ NG: Data is not determined NONE: No passenger DETECT: Passenger exists FAIL: Failure detected | NONE/DETECT | - |
| L BUCKLE SW | Buckle switch (Left side)/ UNSET: Seat belt is not fastened SET: Seat belt is fastened NG: Data is not determined | UNSET/SET | - |
| R BUCKLE SW | Buckle switch (Right side)/ UNSET: Seat belt is not fastened SET: Seat belt is fastened NG: Data is not determined | UNSET/SET | - |
| DISPLAY TYPE | Display type identification information/ LR: Display is indicated by LH/RH DP: Display is indicated by Driver/ Passenger | LR | - |
| PAST CODES | Number of past trouble codes/ Min.: 0, Max.: 255 | 0 | - |

RS

# DIAGNOSTIC TROUBLE CODE CHART

| DTC No. | Detection Item | Trouble Area | SRS Warning Light | See page |
|---|---|---|---|---|
| B0100/13 | Short in Driver Side Squib Circuit | - Steering pad assembly<br>- Spiral cable sub-assembly<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-40 |
| B0101/14 | Open in Driver Side Squib Circuit | - Steering pad assembly<br>- Spiral cable sub-assembly<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-45 |
| B0102/11 | Short to GND in Driver Side Squib Circuit | - Steering pad assembly<br>- Spiral cable sub-assembly<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-51 |
| B0103/12 | Short to B+ in Driver Side Squib Circuit | - Steering pad assembly<br>- Spiral cable sub-assembly<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-57 |
| B0105/53 | Short in Front Passenger Side Squib Circuit | - Front passenger airbag assembly (P squib)<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-63 |
| B0106/54 | Open in Front Passenger Side Squib Circuit | - Front passenger airbag assembly (P squib)<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-66 |
| B0107/51 | Short to GND in Front Passenger Side Squib Circuit | - Front passenger airbag assembly (P squib)<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-70 |
| B0108/52 | Short to B+ in Front Passenger Side Squib Circuit | - Front passenger airbag assembly (P squib)<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-74 |
| B0110/43 | Short in Side Squib RH Circuit | - Front seat side airbag assembly RH (Side squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-78 |
| B0111/44 | Open in Side Squib RH Circuit | - Front seat side airbag assembly RH (Side squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-82 |
| B0112/41 | Short to GND in Side Squib RH Circuit | - Front seat side airbag assembly RH (Side squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-86 |

| DTC No. | Detection Item | Trouble Area | SRS Warning Light | See page |
|---|---|---|---|---|
| B0113/42 | Short to B+ in Side Squib RH Circuit | - Front seat side airbag assembly RH (Side squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-90 |
| B0115/47 | Short in Side Squib LH Circuit | - Front seat side airbag assembly LH (Side squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-94 |
| B0116/48 | Open in Side Squib LH Circuit | - Front seat side airbag assembly LH (Side squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-98 |
| B0117/45 | Short to GND in Side Squib LH Circuit | - Front seat side airbag assembly LH (Side squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-102 |
| B0118/46 | Short to B+ in Side Squib LH Circuit | - Front seat side airbag assembly LH (Side squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-106 |
| B0121/26 | Seat Belt Buckle Switch RH Circuit Malfunction | - Front seat inner belt assembly RH (Seat belt buckle switch RH)<br>- Center airbag sensor assembly<br>- Floor wire | ON | RS-110 |
| B0126/27 | Seat Belt Buckle Switch LH Circuit Malfunction | - Front seat inner belt assembly LH (Seat belt buckle switch LH)<br>- Center airbag sensor assembly<br>- Floor wire | ON | RS-115 |
| B0130/63 | Short in Front Pretensioner Squib RH Circuit | - Front seat outer belt assembly RH (P/T squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-120 |
| B0131/64 | Open in Front Pretensioner Squib RH Circuit | - Front seat outer belt assembly RH (P/T squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-124 |
| B0132/61 | Short to GND in Front Pretensioner Squib RH Circuit | - Front seat outer belt assembly RH (P/T squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-128 |

| DTC No. | Detection Item | Trouble Area | SRS Warning Light | See page |
|---|---|---|---|---|
| B0133/62 | Short to B+ in Front Pretensioner Squib RH Circuit | - Front seat outer belt assembly RH (P/T squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-132 |
| B0135/73 | Short in Front Pretensioner Squib LH Circuit | - Front seat outer belt assembly LH (P/T squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-136 |
| B0136/74 | Open in Front Pretensioner Squib LH Circuit | - Front seat outer belt assembly LH (P/T squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-140 |
| B0137/71 | Short to GND in Front Pretensioner Squib LH Circuit | - Front seat outer belt assembly LH (P/T squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-144 |
| B0138/72 | Short to B+ in Front Pretensioner Squib LH Circuit | - Front seat outer belt assembly LH (P/T squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-148 |
| B1100/31 | Center Airbag Sensor Assembly Malfunction | - Center airbag sensor assembly<br>- Electrical connection check mechanism* | ON | RS-151 |
| B1140/32 | Side Airbag Sensor Assembly RH Circuit Malfunction | - Side airbag sensor assembly RH<br>- Center airbag sensor assembly<br>- Rear airbag sensor RH<br>- Floor wire | Blinks | RS-154 |
| B1141/33 | Side Airbag Sensor Assembly LH Malfunction | - Side airbag sensor assembly LH<br>- Center airbag sensor assembly<br>- Rear airbag sensor LH<br>- Floor wire | Blinks | RS-162 |
| B1153/25 | Seat Position Airbag Sensor Circuit Malfunction | - Seat position airbag sensor<br>- Center airbag sensor assembly<br>- Floor wire<br>- Front seat inner belt assembly LH | ON | RS-170 |
| B1154/38 | Rear Airbag Sensor RH Circuit Malfunction | - Rear airbag sensor RH<br>- Side airbag sensor assembly RH<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-180 |
| B1155/39 | Rear Airbag Sensor LH Circuit Malfunction | - Rear airbag sensor RH<br>- Side airbag sensor assembly RH<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-184 |

| DTC No. | Detection Item | Trouble Area | SRS Warning Light | See page |
|---|---|---|---|---|
| B1156/15 | Front Airbag Sensor RH Malfunction | - Front airbag sensor RH<br>- Center airbag sensor assembly<br>- Instrument panel wire<br>- Engine room wire | ON | RS-188 |
| B1157/15 | Front Airbag Sensor RH Malfunction | - Front airbag sensor RH<br>- Center airbag sensor assembly<br>- Instrument panel wire<br>- Engine room wire | ON | RS-188 |
| B1158/16 | Front Airbag Sensor LH Malfunction | - Front airbag sensor LH<br>- Center airbag sensor assembly<br>- Instrument panel wire<br>- Engine room wire | ON | RS-197 |
| B1159/16 | Front Airbag Sensor LH Malfunction | - Front airbag sensor LH<br>- Center airbag sensor assembly<br>- Instrument panel wire<br>- Engine room wire | ON | RS-197 |
| B1160/83 | Short in Curtain Shield Squib RH Circuit | - Curtain shield airbag assembly RH (Curtain shield squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-206 |
| B1161/84 | Open in Curtain Shield Squib RH Circuit | - Curtain shield airbag assembly RH (Curtain shield squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-210 |
| B1162/81 | Short to GND in Curtain Shield Squib RH Circuit | - Curtain shield airbag assembly RH (Curtain shield squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-214 |
| B1163/82 | Short to B+ in Curtain Shield Squib RH Circuit | - Curtain shield airbag assembly RH (Curtain shield squib RH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-217 |
| B1165/87 | Short in Curtain Shield Squib LH Circuit | - Curtain shield airbag assembly LH (Curtain shield squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-221 |
| B1166/88 | Open in Curtain Shield Squib LH Circuit | - Curtain shield airbag assembly LH (Curtain shield squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-225 |
| B1167/85 | Short to GND in Curtain Shield Squib LH Circuit | - Curtain shield airbag assembly LH (Curtain shield squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-228 |

| DTC No. | Detection Item | Trouble Area | SRS Warning Light | See page |
|---|---|---|---|---|
| B1168/86 | Short to B+ in Curtain Shield Squib LH Circuit | - Curtain shield airbag assembly LH (Curtain shield squib LH)<br>- Center airbag sensor assembly<br>- Floor wire | Blinks | RS-232 |
| B1180/17 | Short in Driver Side Squib 2nd Step Circuit | - Steering pad assembly (D squib, 2nd step)<br>- Spiral cable sub-assembly<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-236 |
| B1181/18 | Open in Driver Side Squib 2nd Step Circuit | - Steering pad assembly (D squib, 2nd step)<br>- Spiral cable sub-assembly<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-241 |
| B1182/19 | Short to GND in Driver Side Squib 2nd Step Circuit | - Steering pad assembly (D squib, 2nd step)<br>- Spiral cable sub-assembly<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-247 |
| B1183/22 | Short to B+ in Driver Side Squib 2nd Step Circuit | - Steering pad assembly (D squib, 2nd step)<br>- Spiral cable sub-assembly<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-253 |
| B1185/57 | Short in Front Passenger Side Squib 2nd Step Circuit | - Front passenger airbag assembly (P squib, 2nd step)<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-259 |
| B1186/58 | Open in Front Passenger Side Squib 2nd Step Circuit | - Front passenger airbag assembly (P squib, 2nd step)<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-263 |
| B1187/55 | Short to GND in Front Passenger Side Squib 2nd Step Circuit | - Front passenger airbag assembly (P squib, 2nd step)<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-267 |
| B1188/56 | Short to B+ in Front Passenger Side Squib 2nd Step Circuit | - Front passenger airbag assembly (P squib, 2nd step)<br>- Center airbag sensor assembly<br>- Instrument panel wire | ON | RS-271 |

HINT:

- *: w/ Side Airbag

- When the SRS warning light remains on and the DTC output is the normal system code, a voltage source drop is likely to occur. This malfunction is not stored in the memory of the center airbag sensor assembly. If the power source voltage returns to normal, the SRS warning light will automatically go off.
- When 2 or more codes are indicated, the code with the lower number appears first.
- If the displayed code is not shown in the chart, the center airbag sensor assembly may be malfunctioning.
- In the case of any malfunction concerning an open circuit, short to ground, or short to B+ due to a squib, other malfunction codes may not be detected. In this case, repair the malfunction currently indicated and then perform the malfunction diagnosis again.

| DTC | B1161/84 | Open in Curtain Shield Squib RH Circuit |
|---|---|---|

## DESCRIPTION

The curtain shield squib RH circuit consists of the center airbag sensor and the curtain shield airbag RH. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

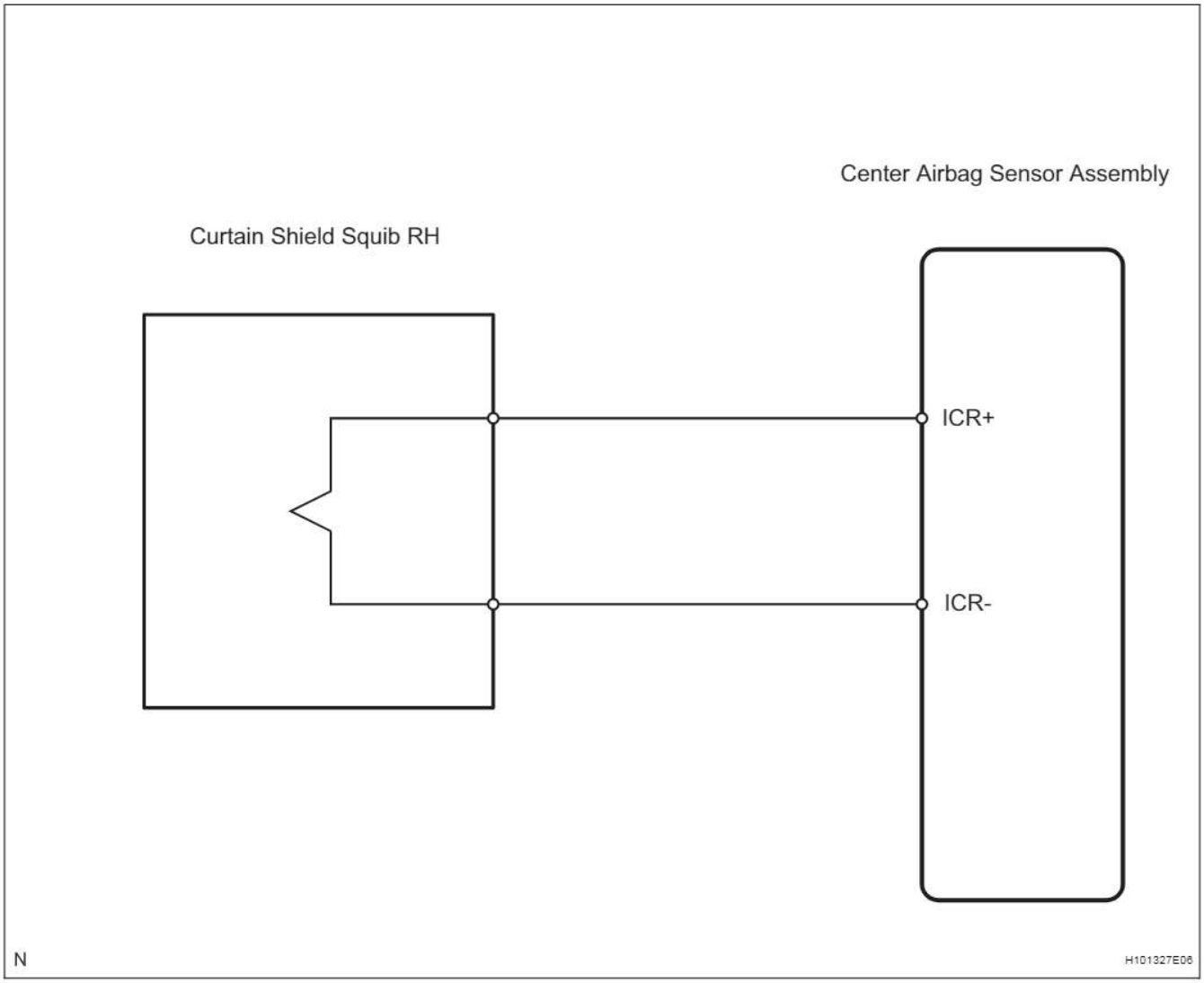
DTC B1161/84 is recorded when an open is detected in the curtain shield squib RH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1161/84 | • Open circuit in ICR+ wire harness or ICR- wire harness of curtain shield squib RH<br>• Curtain shield squib RH malfunction<br>• Center airbag sensor malfunction | • Curtain shield airbag RH (curtain shield squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

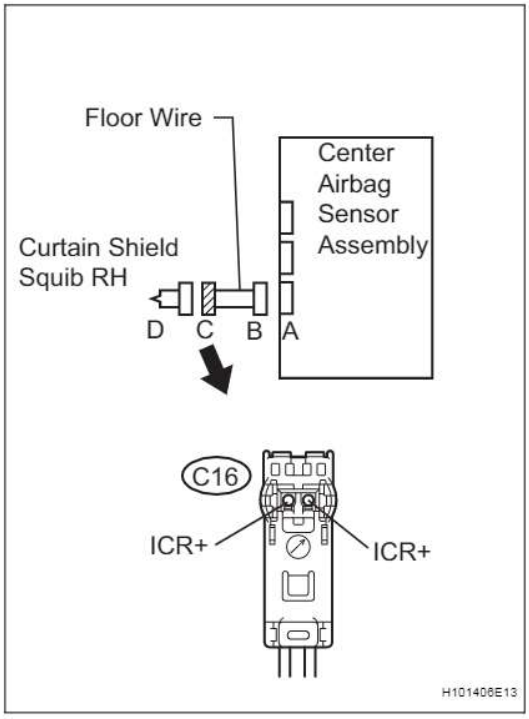
DTC B1161/84 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the curtain shield airbag RH.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

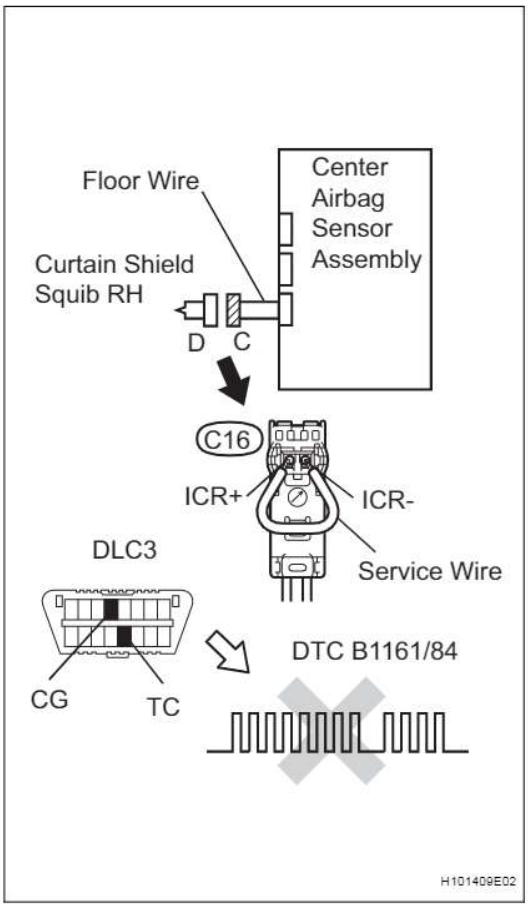
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| C16-1 (ICR+) - C16-2 (ICR-) | Below 1 Ω |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|



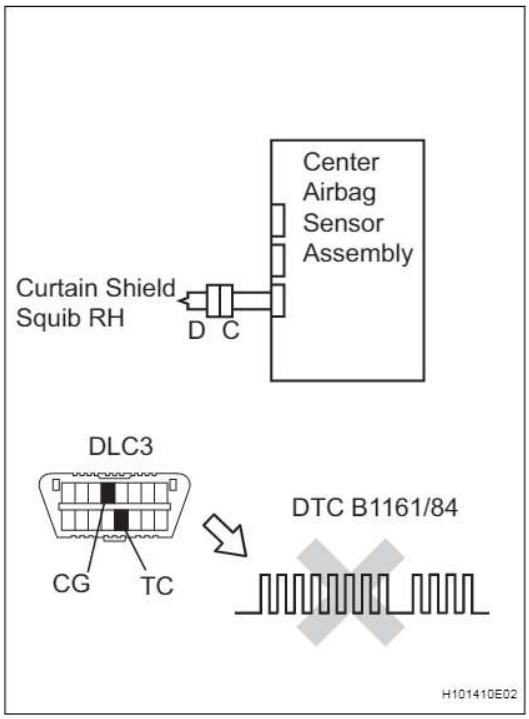

(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals ICR+ and ICR- of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B1161/84 is not output.**
HINT:
Codes other than code B1161/84 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the curtain shield airbag RH (curtain shield squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1161/84 is not output.**

HINT:

Codes other than code B1161/84 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH**

OK

**USE SIMULATION METHOD TO CHECK**

| DTC | B1162/81 | Short to GND in Curtain Shield Squib RH Circuit |
|---|---|---|

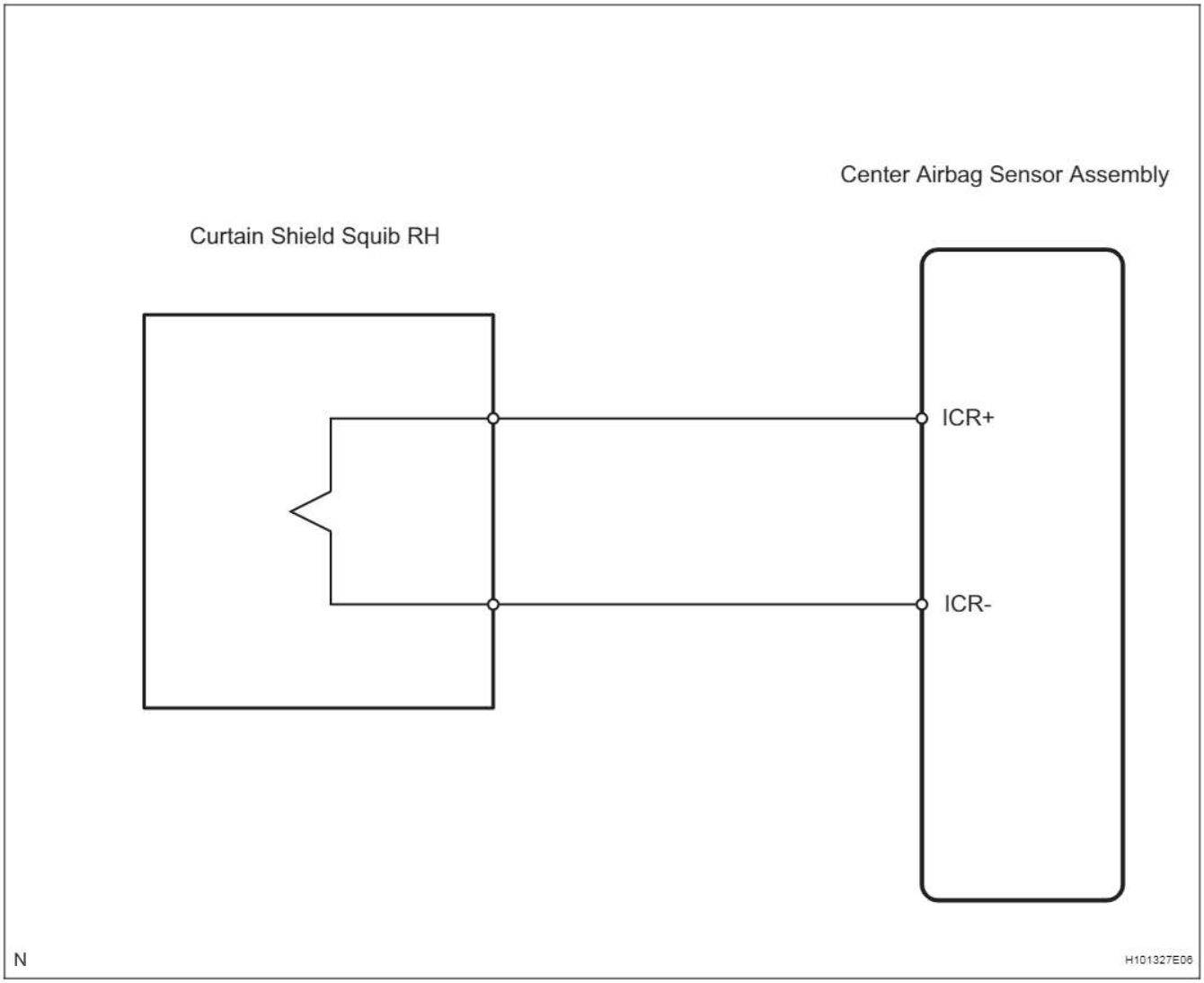
## DESCRIPTION

RS

The curtain shield squib RH circuit consists of the center airbag sensor and the curtain shield airbag RH. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1162/81 is recorded when a ground short is detected in the curtain shield squib RH circuit.

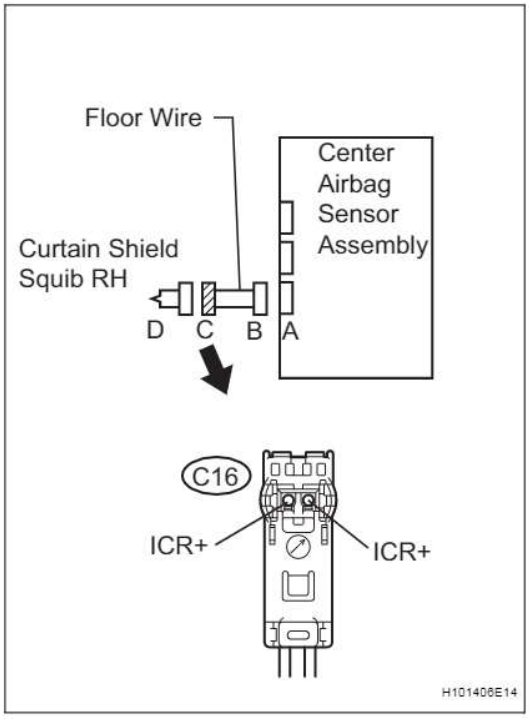
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1162/81 | • Short in curtain shield squib RH circuit (to ground)<br>• Curtain shield squib RH malfunction<br>• Center airbag sensor malfunction | • Curtain shield airbag assembly RH (curtain shield squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the curtain shield airbag RH.
(d) Measure the resistance according to the value(s) in the table below.

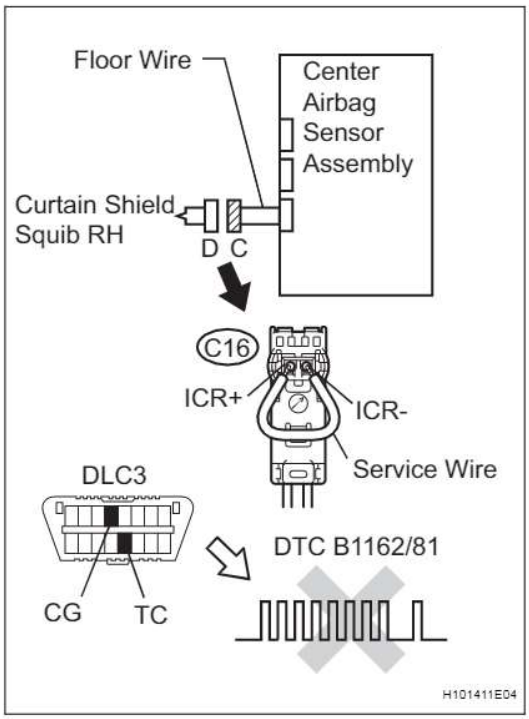
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| C16-1 (ICR+) - Body ground | 1 MΩ or higher |
| C16-2 (ICR-) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

### 2 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals ICR+ and ICR- of connector "C".

**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).

**OK:**

**DTC B1162/81 is not output.**

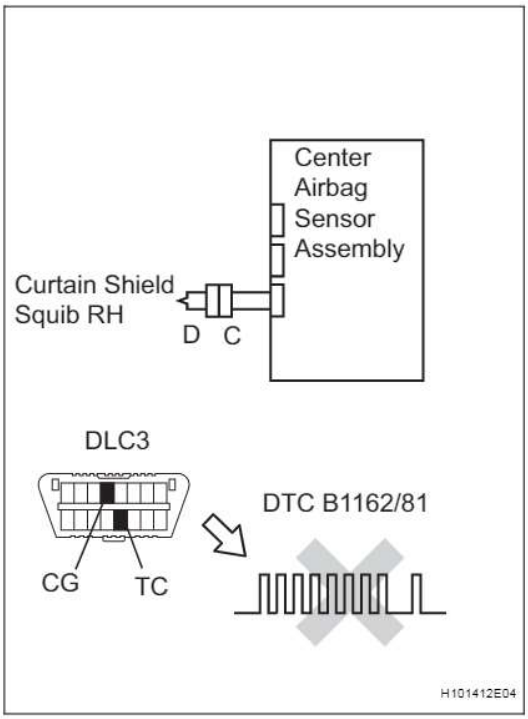
HINT:
Codes other than code B1162/81 may be output at this time, but they are not relevant to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

RS

**3 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH)**




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the curtain shield airbag RH (curtain shield squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).
**OK:**
**DTC B1162/81 is not output.**
HINT:
Codes other than code B1162/81 may be output at this time, but they are not relevant to this check.

NG → REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH

OK

**4 USE SIMULATION METHOD TO CHECK**

NG → Go to step 1

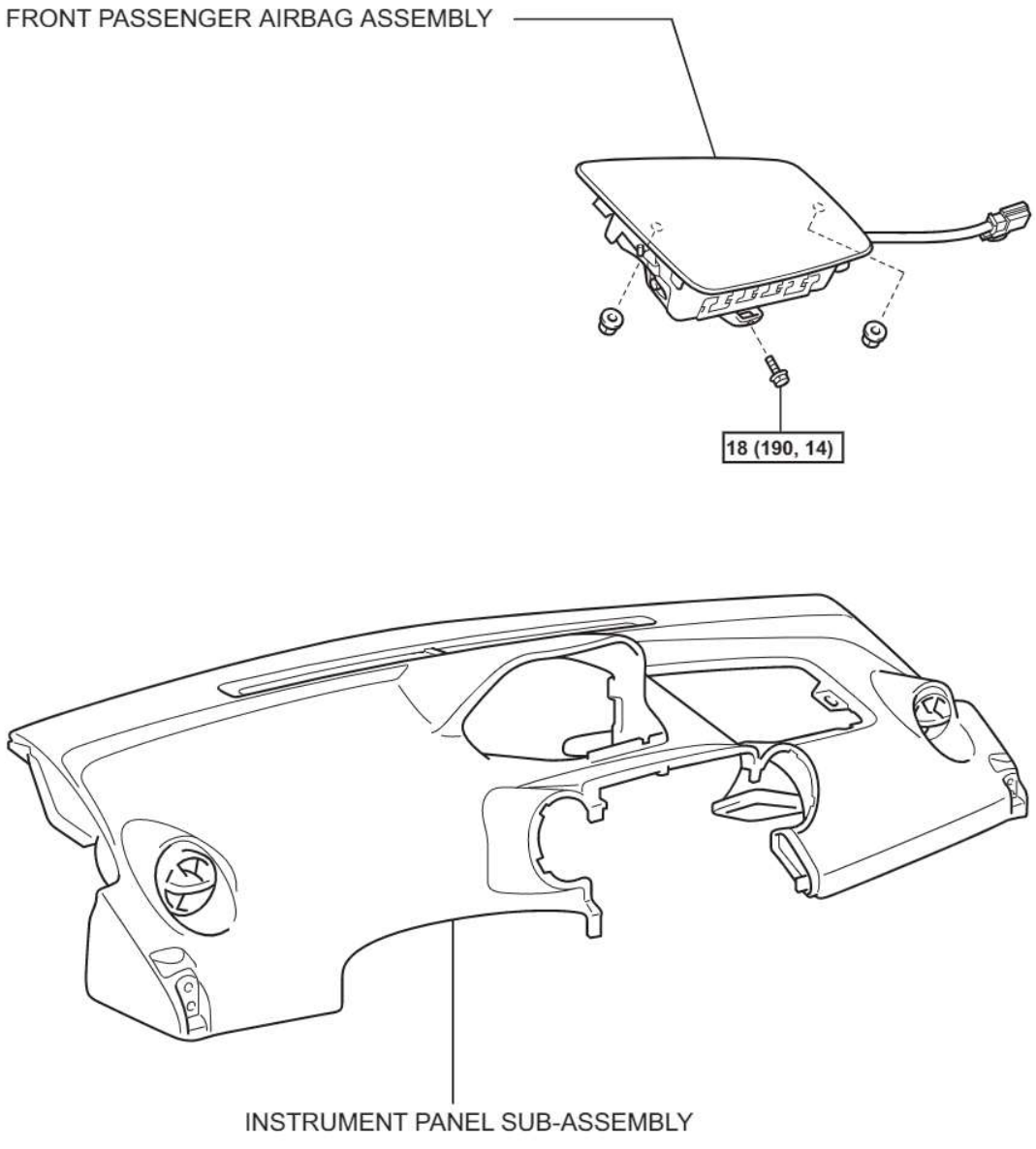
OK

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

# FRONT PASSENGER AIRBAG ASSEMBLY

## COMPONENTS

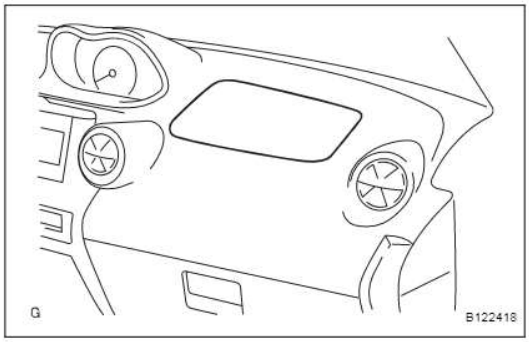
RS




N*m (kgf*cm, ft.*lbf) : Specified torque

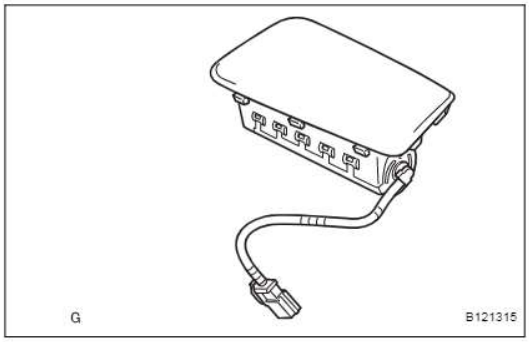
T

C119029E03



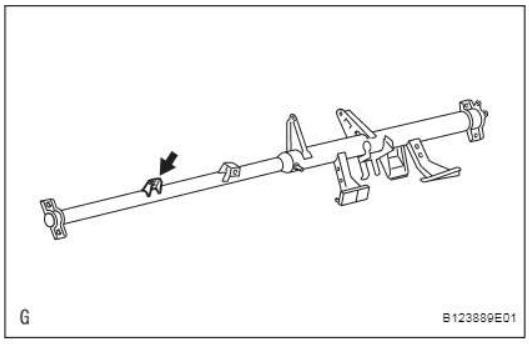

# ON-VEHICLE INSPECTION

1. **CHECK FRONT PASSENGER AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) With the front passenger airbag installed on the vehicle, perform a visual check:
   Check for cuts, cracks or discoloration on the front passenger airbag surface and in the grooved portion.
   If any of the defects mentioned above are present, replace the front passenger airbag with a new one.
   **CAUTION:**
   **For removal and installation of the front passenger airbag, be sure to follow the correct procedures.**




2. **CHECK FRONT PASSENGER AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) With the front passenger airbag removed from the vehicle, perform a visual check:
   - Check for cuts, cracks or discoloration on the front passenger airbag.
   - Check for cracks or other damage on the connectors.
   - Check for deformation or cracks on the instrument panel and instrument panel reinforcement.

   If any of the defects mentioned above are present, replace the front passenger airbag with a new one.
   **CAUTION:**
   **For removal and installation of the front passenger airbag, be sure to follow the correct procedures.**



| DTC | B1163/82 | Short to B+ in Curtain Shield Squib RH Circuit |
|---|---|---|

## DESCRIPTION

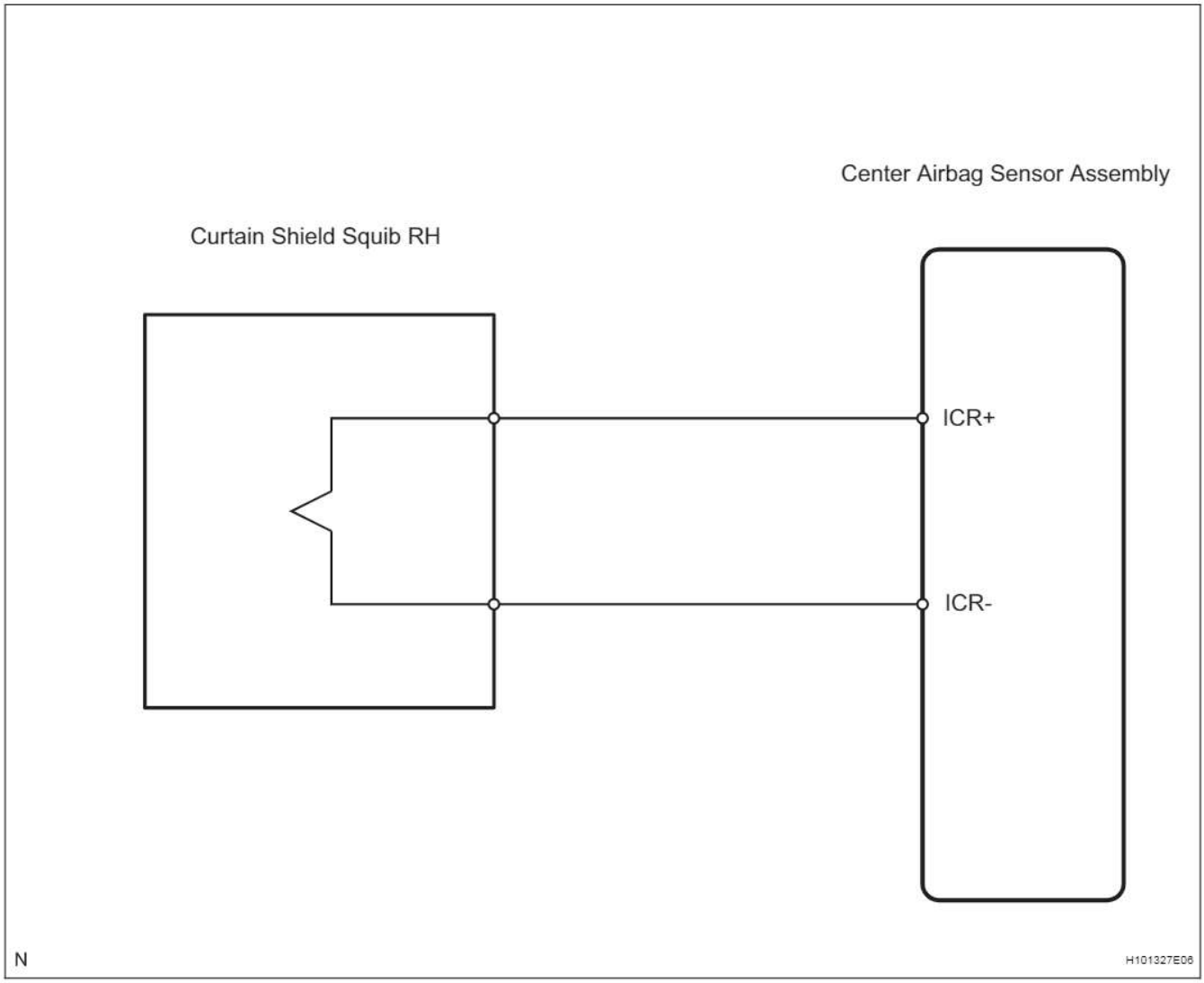
The curtain shield squib RH circuit consists of the center airbag sensor and the curtain shield airbag RH. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1163/82 is recorded when a B+ short is detected in the curtain shield squib RH circuit.



| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1163/82 | • Short in curtain shield squib RH circuit (to B+)<br>• Curtain shield squib RH malfunction<br>• Center airbag sensor malfunction | • Curtain shield airbag assembly RH (curtain shield squib RH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:
DTC B1163/82 is indicated only for the vehicle equipped with the side airbag.

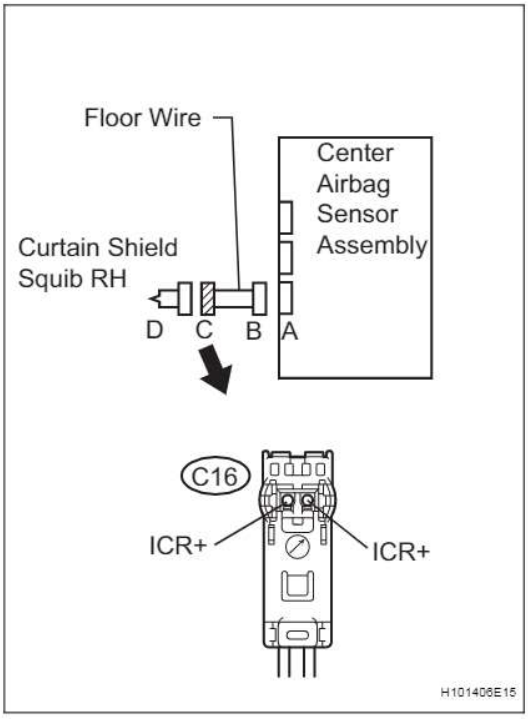
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB RH CIRCUIT) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the curtain shield airbag RH.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

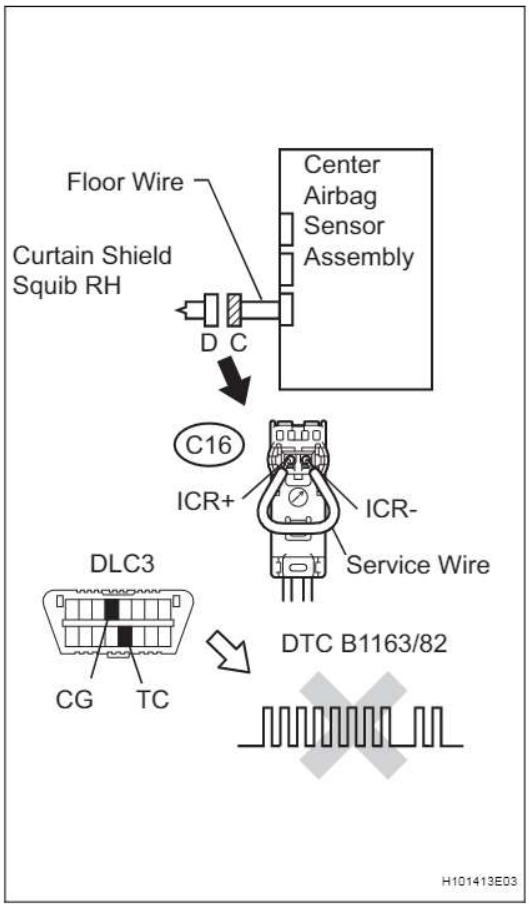
**Standard voltage**

| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| C16-1 (ICR+) - Body ground | Ignition switch ON | Below 1 V |
| C16-2 (ICR-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using a service wire, connect terminals ICR+ and ICR- of connector "C".

**NOTICE:**

- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1163/82 is not output.**

HINT:

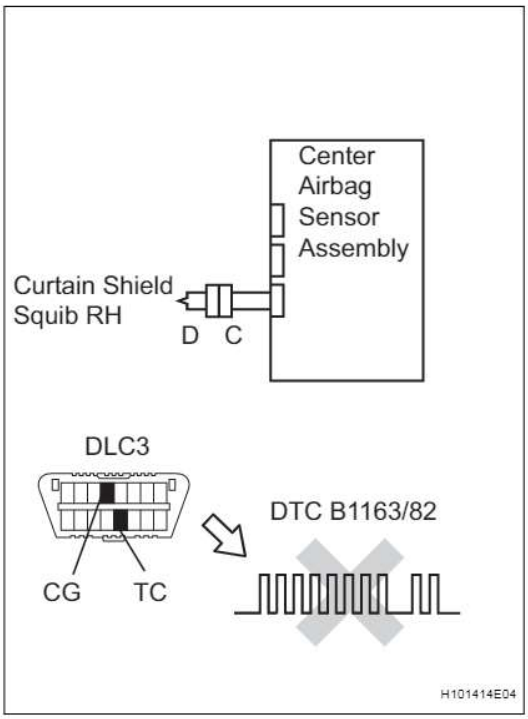
Codes other than code B1163/82 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (CURTAIN SHIELD SQUIB RH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the curtain shield airbag RH (curtain shield squib RH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1163/82 is not output.**

HINT:

Codes other than code B1163/82 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY RH**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B1165/87 | Short in Curtain Shield Squib LH Circuit |
|---|---|---|

## DESCRIPTION

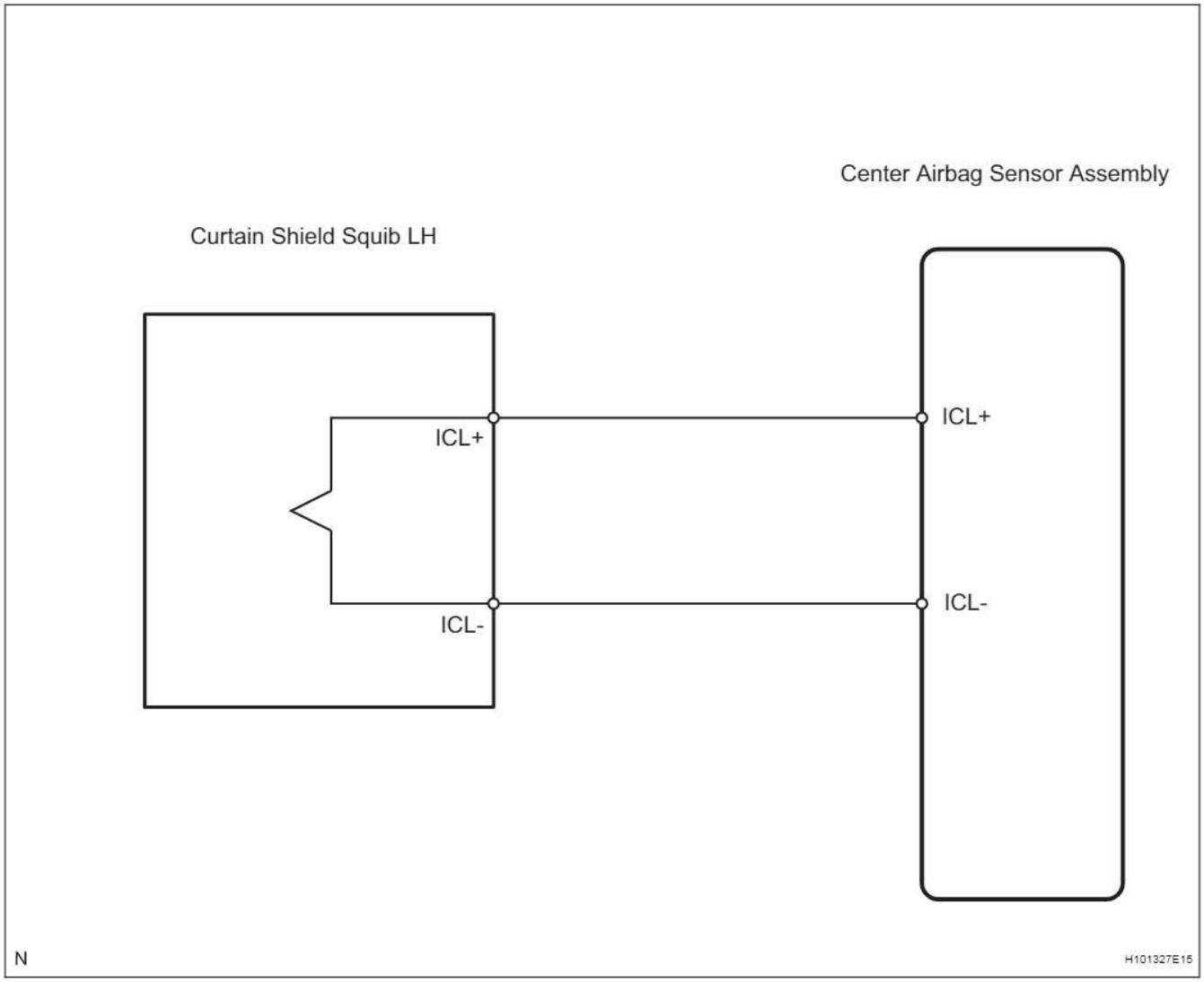
The curtain shield squib LH circuit consists of the center airbag sensor and the curtain shield airbag LH. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1165/87 is recorded when a short is detected in the curtain shield squib LH circuit.



| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1165/87 | • Short circuit between ICL+ wire harness and ICL- wire harness of curtain shield squib LH<br>• Curtain shield squib LH malfunction<br>• Center airbag sensor malfunction | • Curtain shield airbag assembly LH (curtain shield squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:
DTC B1165/87 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK CONNECTOR |
|---|---|

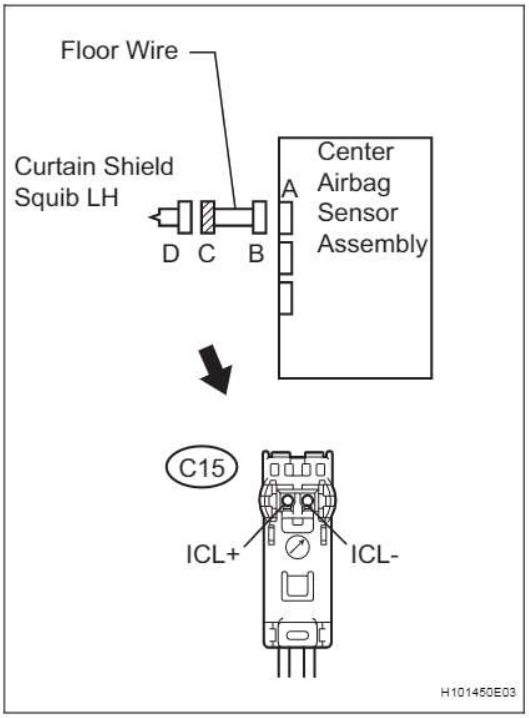
RS

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connector from the curtain shield airbag LH.
(d) Check that the floor wire connector (on the curtain shield airbag LH side) is not damaged.
**OK:**
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

| 2 | CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB LH CIRCUIT) |
|---|---|



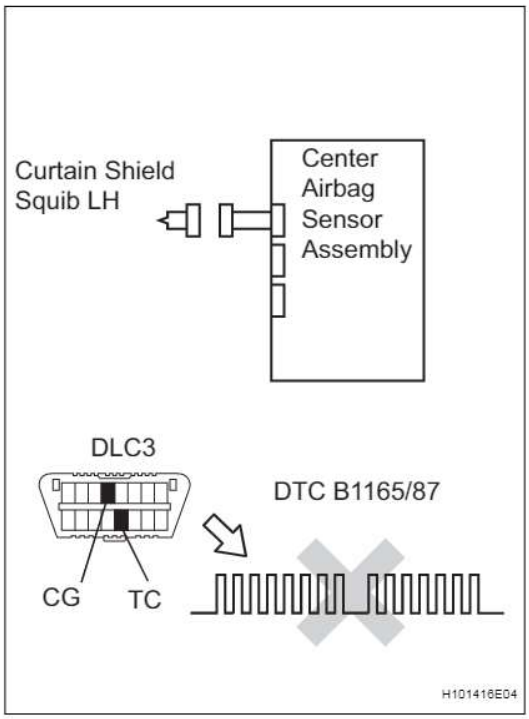

(a) Disconnect the connector from the center airbag sensor.
(b) Release the activation prevention mechanism built into connector "B" (see page RS-18).
(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| C15-1 (ICL+) - C15-2 (ICL-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

## 3 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B1165/87 is not output.**

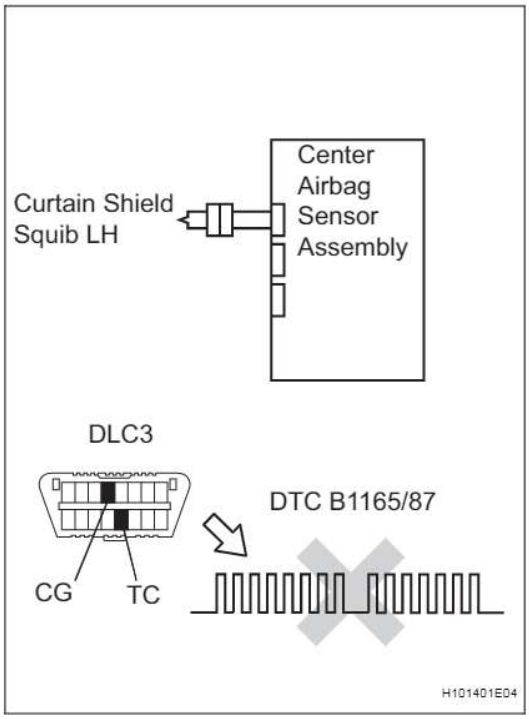
HINT:

Codes other than code B1165/87 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

## 4 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (CURTAIN SHIELD SQUIB LH)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the curtain shield airbag LH (curtain shield squib LH) connector.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B1165/87 is not output.**

HINT:

Codes other than code B1165/87 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH**

OK

USE SIMULATION METHOD TO CHECK

RS

| DTC | B1166/88 | Open in Curtain Shield Squib LH Circuit |
|---|---|---|

## DESCRIPTION

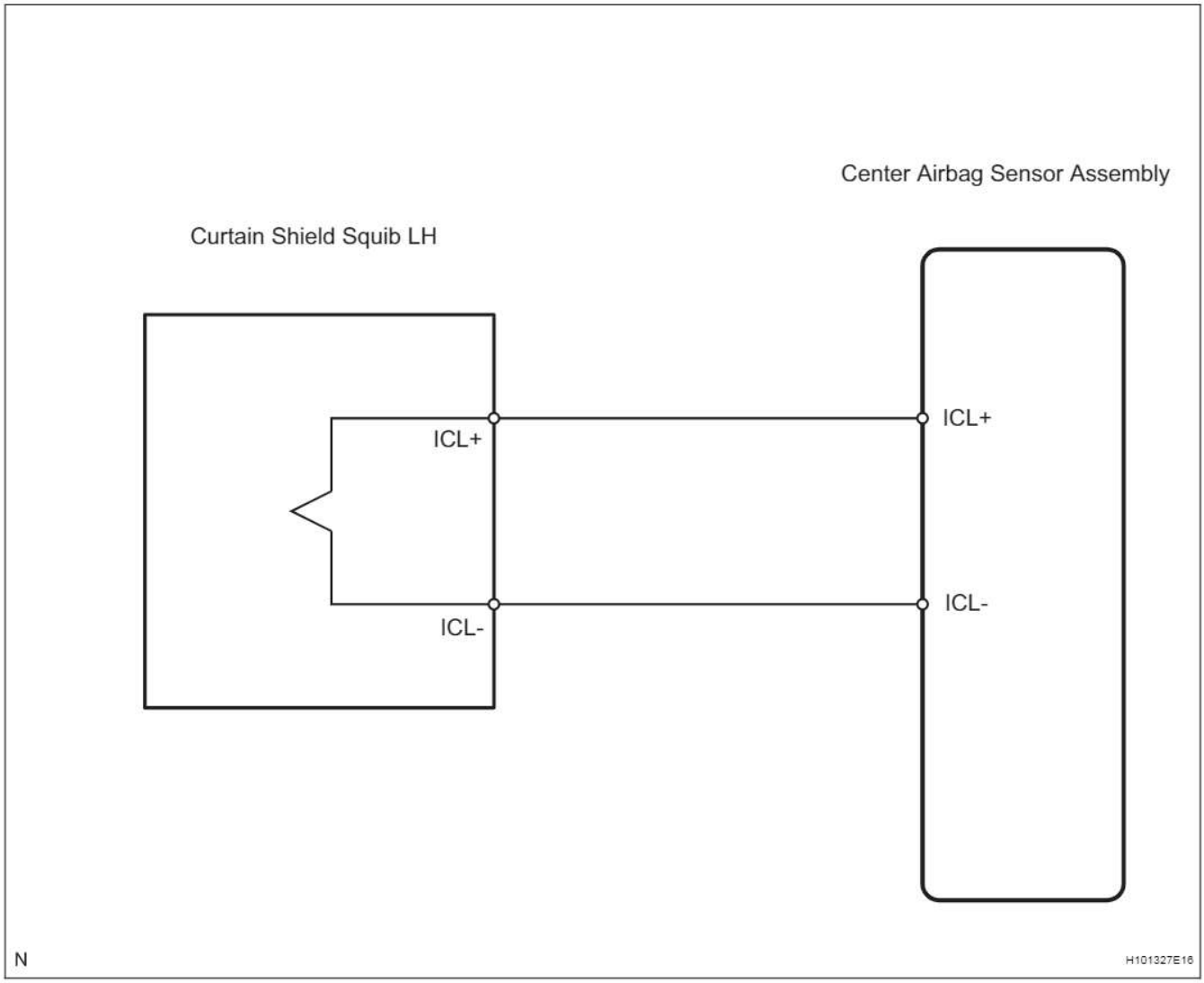
The curtain shield squib LH circuit consists of the center airbag sensor and the curtain shield airbag LH. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1166/88 is recorded when an open is detected in the curtain shield squib LH circuit.



| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1166/88 | • Open circuit in ICL+ wire harness or ICL- wire harness of curtain shield squib LH<br>• Curtain shield squib LH malfunction<br>• Center airbag sensor malfunction | • Curtain shield airbag assembly LH (curtain shield squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

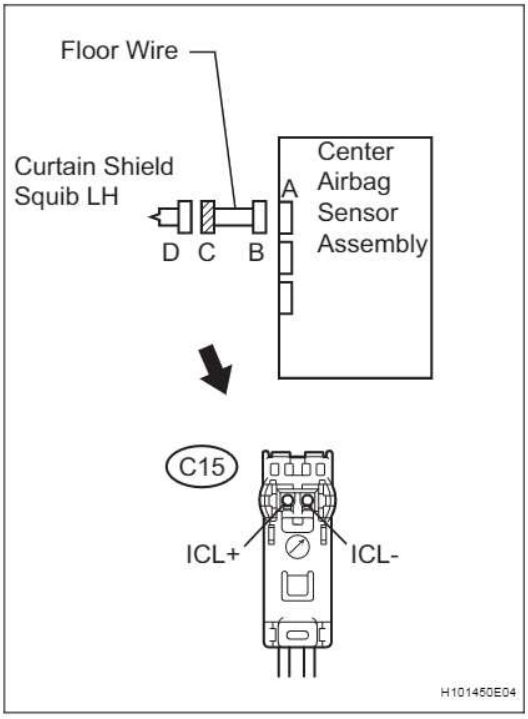
HINT:
DTC B1166/88 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB LH CIRCUIT)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the curtain shield airbag LH.
(d) Measure the resistance according to the value(s) in the table below.

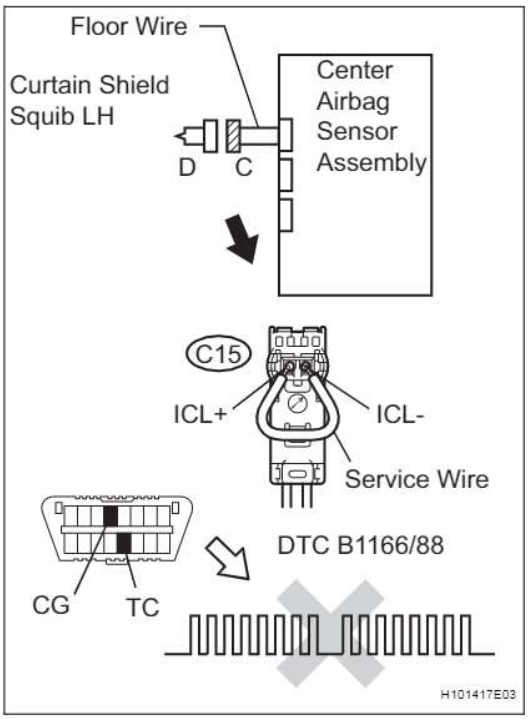
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| C15-1 (ICL+) - C15-2 (ICL-) | Below 1 Ω |

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

### 2 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals ICL+ and ICL- of connector "C".

**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).

**OK:**

**DTC B1166/88 is not output.**

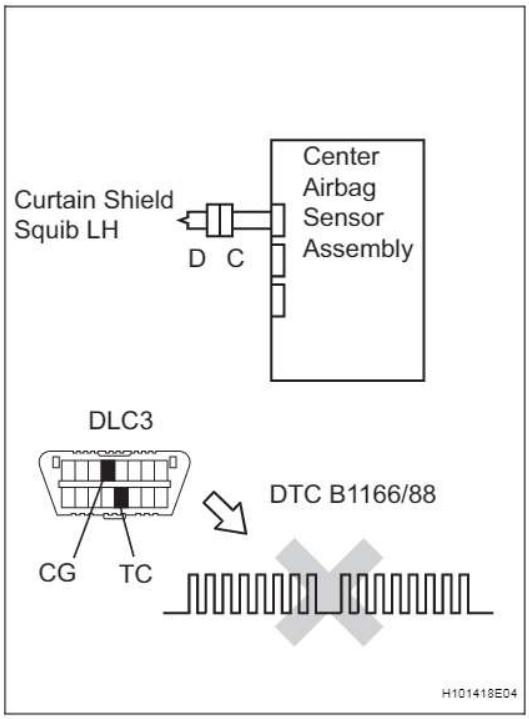
HINT:

Codes other than code B1166/88 may be output at this time, but they are not relevant to this check.

NG → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

**3 CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (CURTAIN SHIELD SQUIB LH)**




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the curtain shield airbag LH (curtain shield squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).
**OK:**
**DTC B1166/88 is not output.**
HINT:
Codes other than code B1166/88 may be output at this time, but they are not relevant to this check.

NG → REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH

OK

USE SIMULATION METHOD TO CHECK

| DTC | B1167/85 | Short to GND in Curtain Shield Squib LH Circuit |
|---|---|---|

## DESCRIPTION

The curtain shield squib LH circuit consists of the center airbag sensor and the curtain shield airbag LH. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

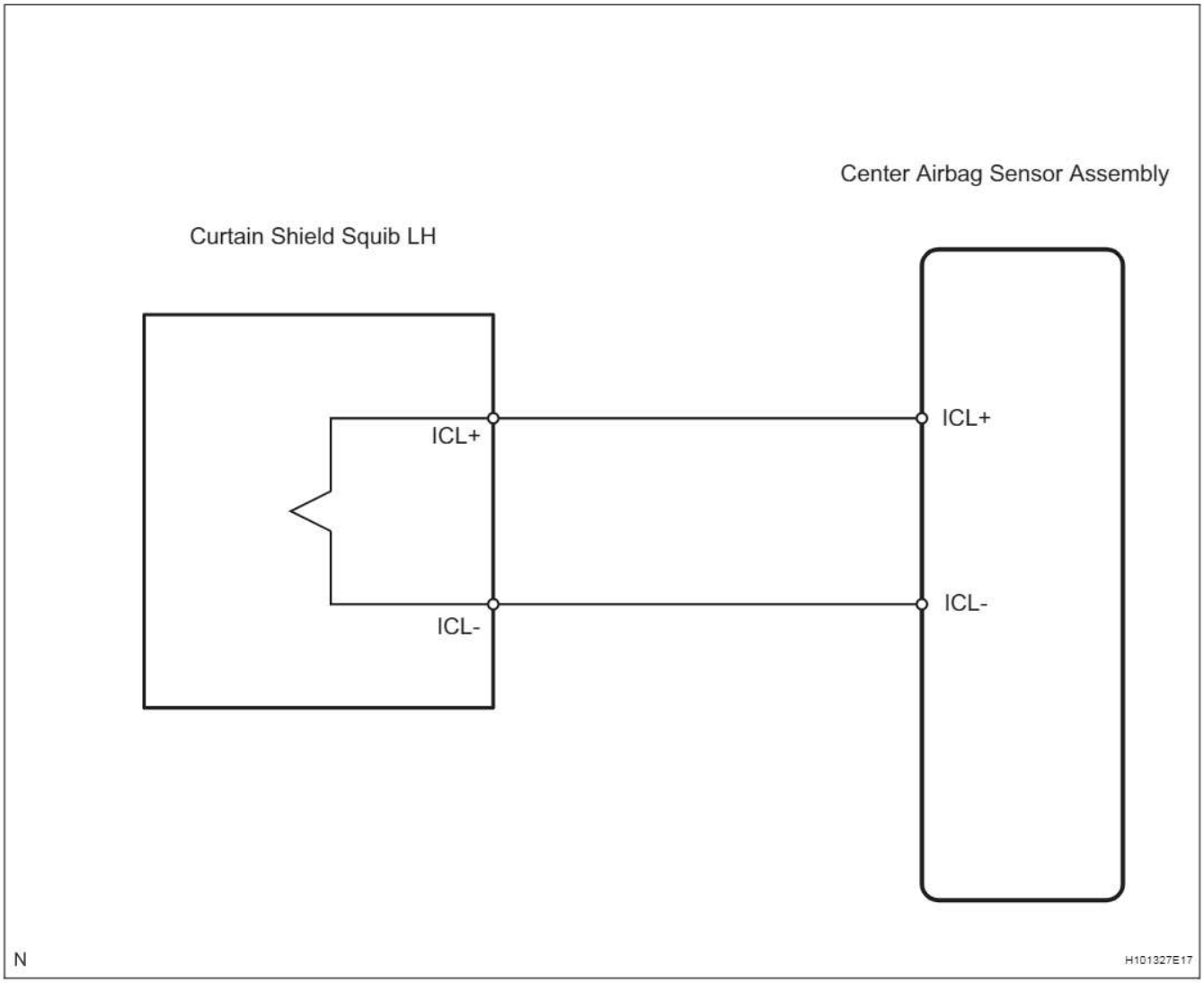
DTC B1167/85 is recorded when a ground short is detected in the curtain shield squib LH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1167/85 | • Short in curtain shield squib LH circuit (to ground)<br>• Curtain shield squib LH malfunction<br>• Center airbag sensor malfunction | • Curtain shield airbag assembly LH (curtain shield squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

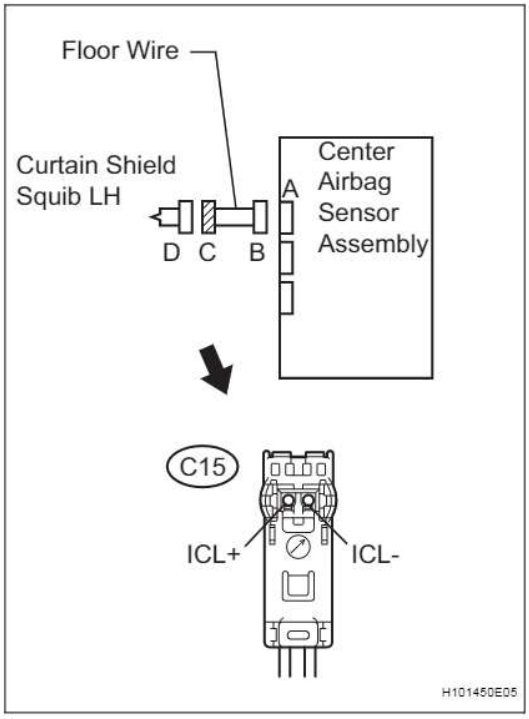
DTC B1167/85 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB LH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the curtain shield airbag LH.
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| C15-1 (ICL+) - Body ground | 1 MΩ or higher |
| C15-2 (ICL-) - Body ground | 1 MΩ or higher |

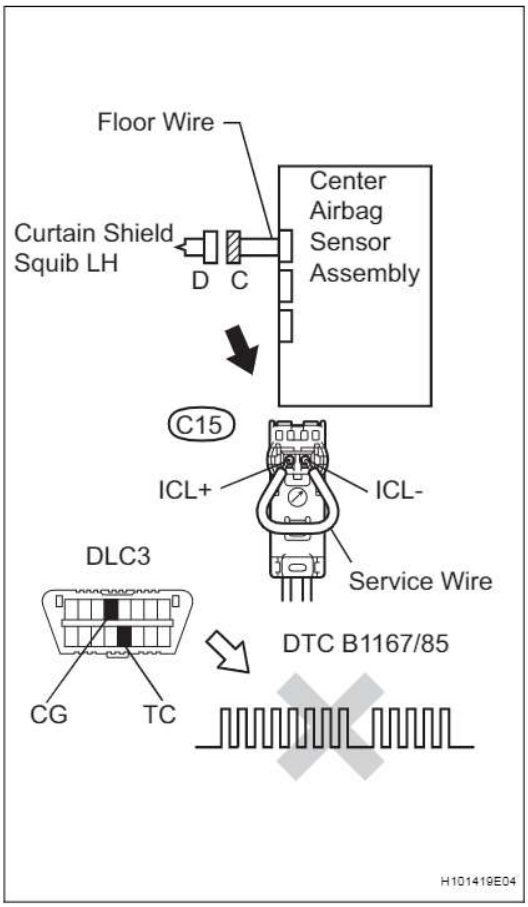
NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|



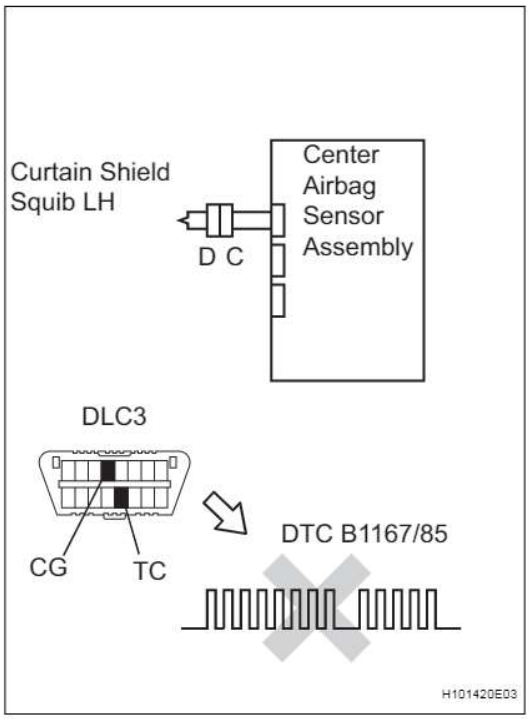

(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals ICL+ and ICL- of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B1167/85 is not output.**
HINT:
Codes other than code B1167/85 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK CURTAIN SHIELD SQUIB LH (CURTAIN SHIELD SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the curtain shield airbag LH (curtain shield squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1167/85 is not output.**

HINT:

Codes other than code B1167/85 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH**

OK ↓

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK ↓

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B1168/86 | Short to B+ in Curtain Shield Squib LH Circuit |
|---|---|---|

## DESCRIPTION

The curtain shield squib LH circuit consists of the center airbag sensor and the curtain shield airbag LH. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

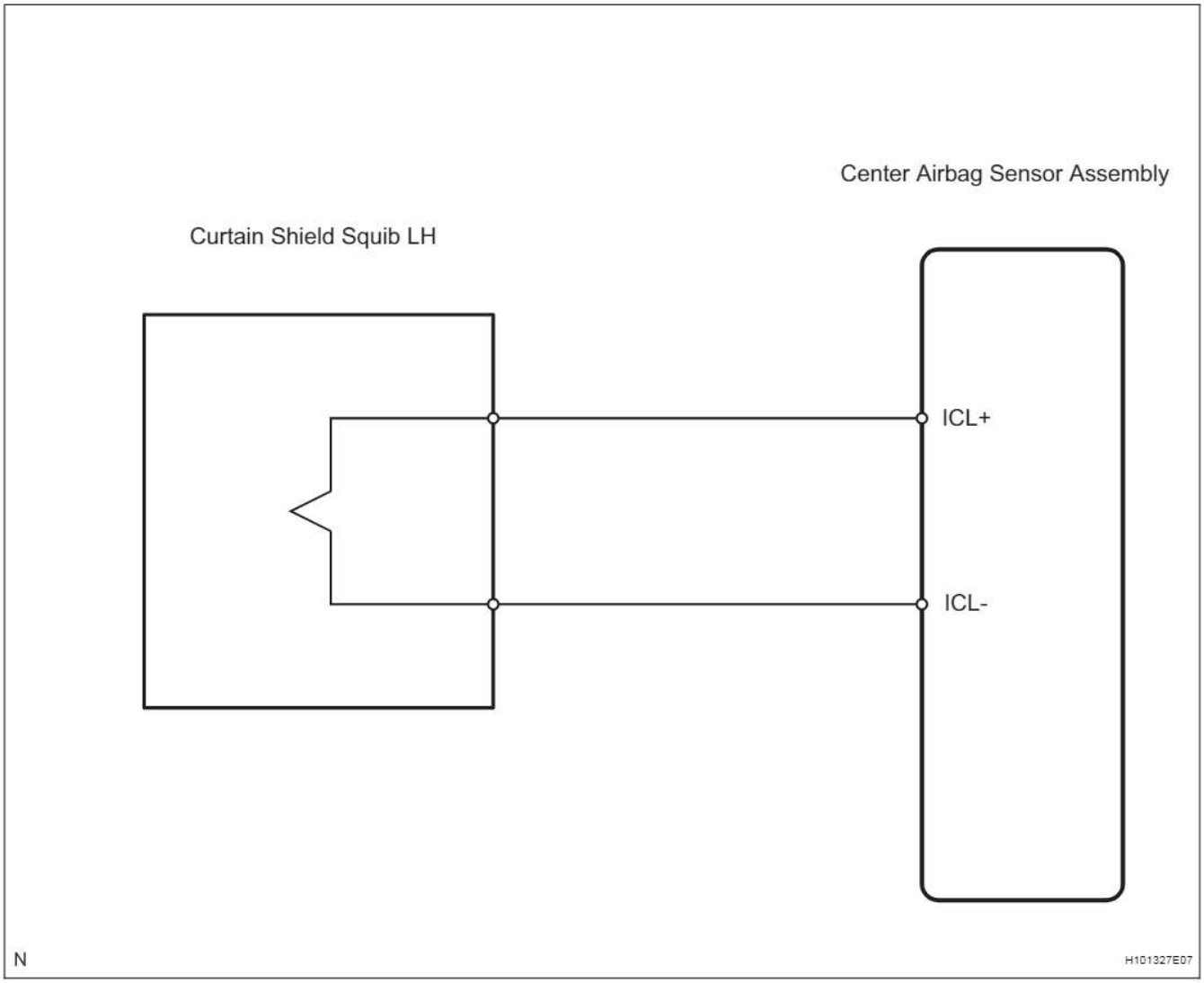
DTC B1168/86 is recorded when a B+ short is detected in the curtain shield squib LH circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1168/86 | • Short in curtain shield squib LH circuit (to B+)<br>• Curtain shield squib LH malfunction<br>• Center airbag sensor malfunction | • Curtain shield airbag assembly LH (curtain shield squib LH)<br>• Center airbag sensor assembly<br>• Floor wire |

HINT:

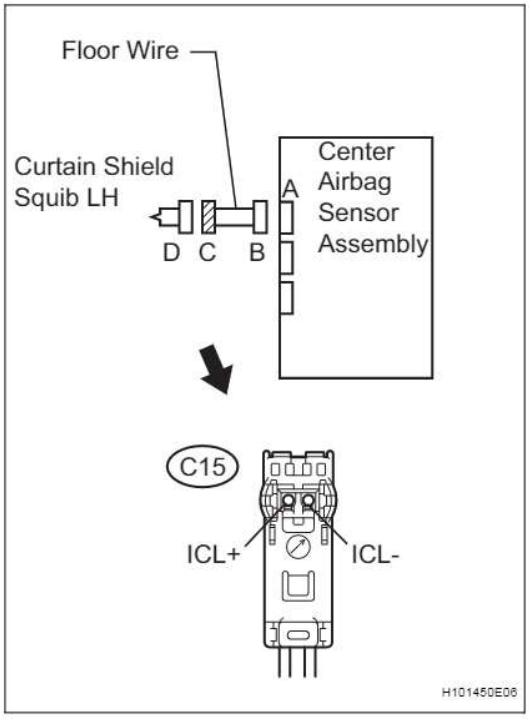
DTC B1168/86 is indicated only for the vehicle equipped with the side airbag.

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK FLOOR WIRE (CURTAIN SHIELD SQUIB LH CIRCUIT) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the curtain shield airbag LH.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

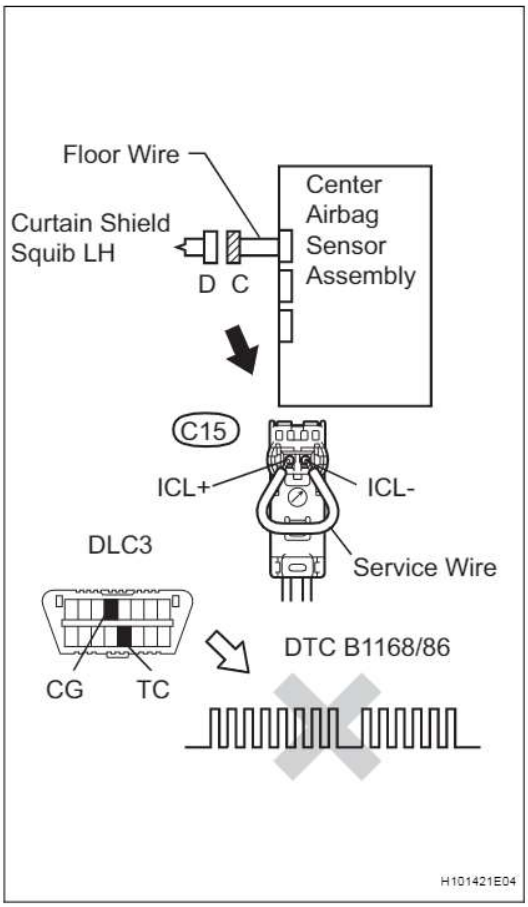
| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| C15-1 (ICL+) - Body ground | Ignition switch ON | Below 1 V |
| C15-2 (ICL-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|



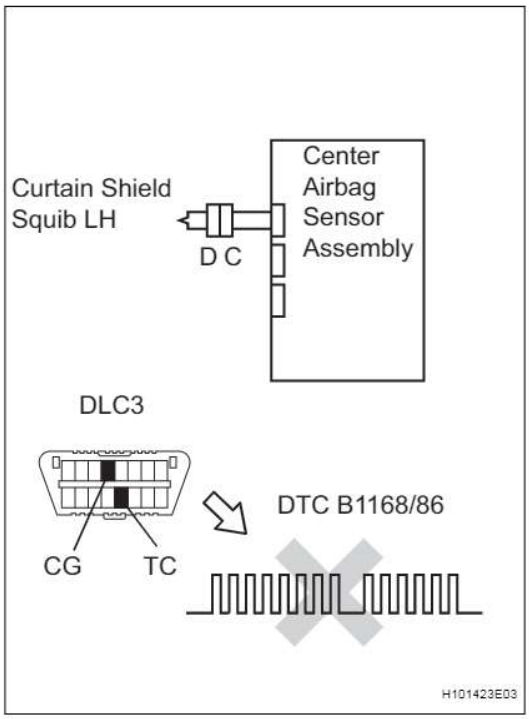

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using a service wire, connect terminals ICL+ and ICL- of connector "C".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).
**OK:**
**DTC B1168/86 is not output.**
HINT:
Codes other than code B1168/86 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (CURTAIN SHIELD SQUIB LH) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "C".
(d) Connect the curtain shield airbag LH (curtain shield squib LH) connector.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1168/86 is not output.**

HINT:

Codes other than code B1168/86 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

| DTC | B1180/17 | Short in Driver Side Squib 2nd Step Circuit |
|---|---|---|

## DESCRIPTION

The driver side squib (2nd step) circuit consists of the center airbag senor, the spiral cable and the steering pad.

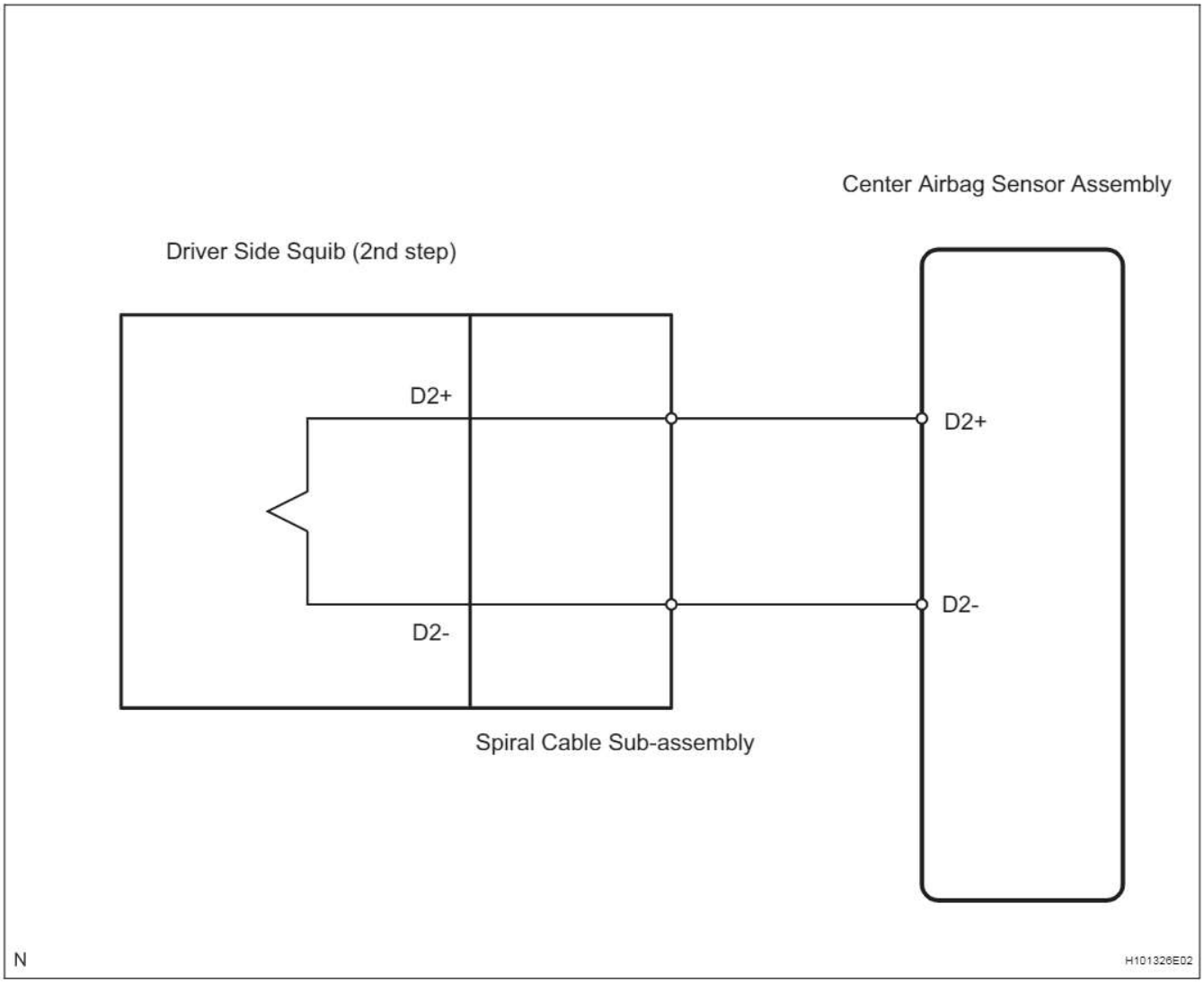
RS

The circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1180/17 is recorded when a short is detected in the driver side squib (2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1180/17 | • Short in driver side squib (2nd step) circuit<br>• Driver side squib (2nd step) malfunction<br>• Spiral cable malfunction<br>• Center airbag sensor malfunction | • Steering pad assembly (driver side squib (2nd step))<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK CONNECTOR |
|---|---|

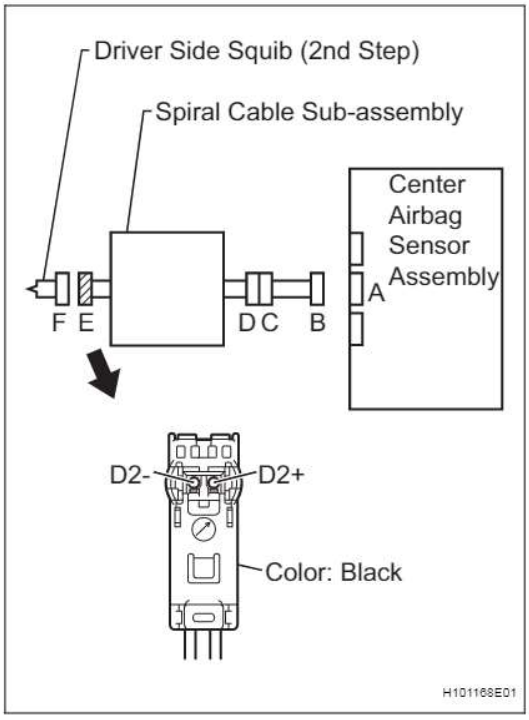
(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Check that the spiral cable connector (on the horn side) is not damaged.

**OK:**
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

NG → **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

| 2 | CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR - STEERING PAD) |
|---|---|




(a) Disconnect the connector from the center airbag sensor.
(b) Release the activation prevention mechanism built into connector "B" (see page RS-18).
(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

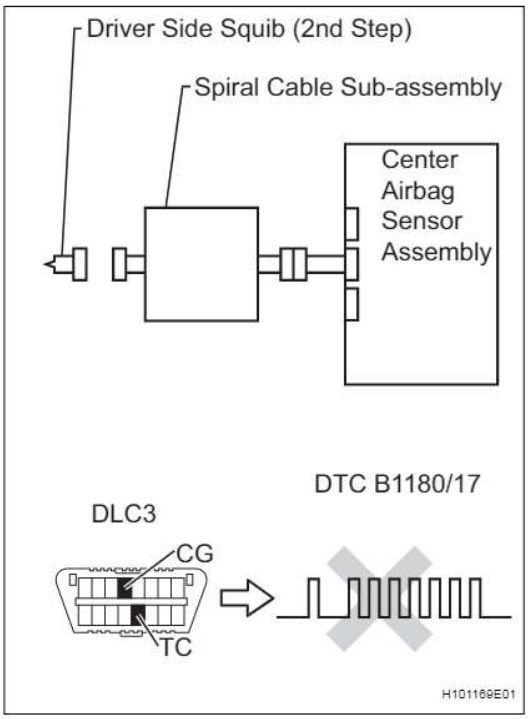
| Tester connection (Connector "E") | Specified Condition |
|---|---|
| D2+ - D2- | 1 MΩ or higher |

NG → **Go to step 5**

OK

RS

| 3 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag senor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B1180/17 is not output.**

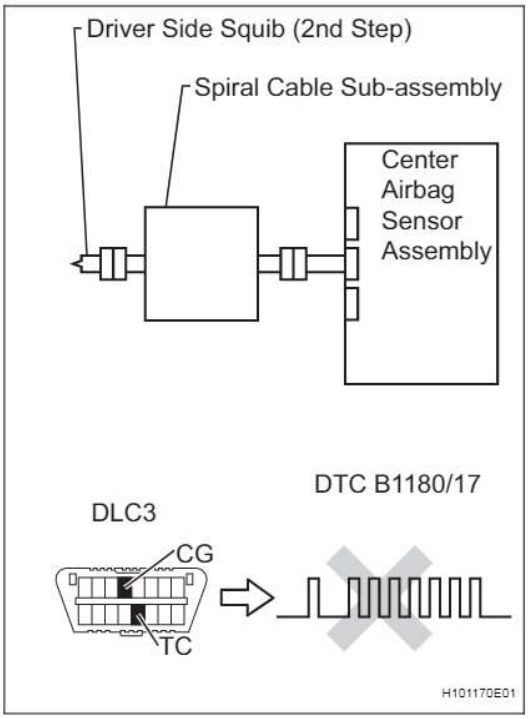
HINT:

Codes other than code B1180/17 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 4 | CHECK STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB, 2ND STEP) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connectors to the steering pad.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B1180/17 is not output.**

HINT:

Codes other than code B1180/17 may be output at this time, but they are not relevant to this check.

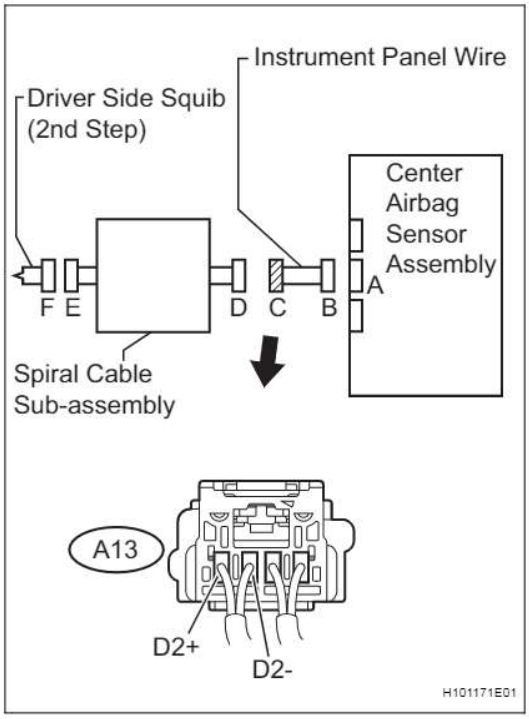
NG → **REPLACE STEERING PAD ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

RS

| 5 | CHECK INSTRUMENT PANEL WIRE |
|---|---|




(a) Disconnect the instrument panel wire connector from the spiral cable.
HINT:
The activation prevention mechanism of connector "B" has already been released.

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

**Standard resistance**

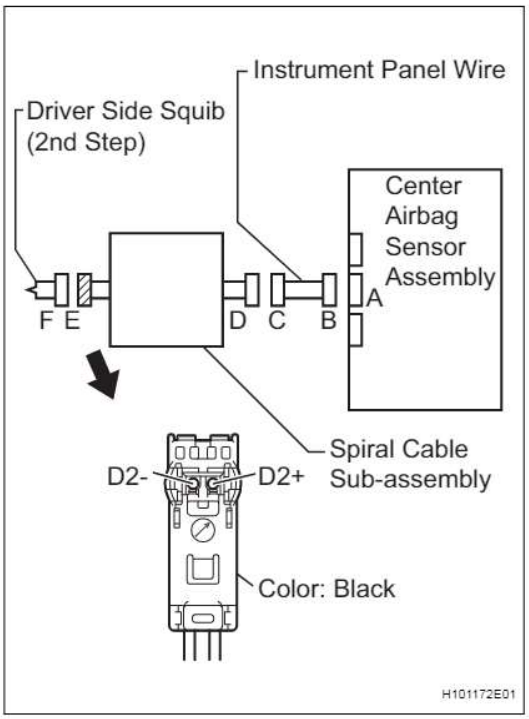
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A13-4 (D2+) - A13-3 (D2-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

RS

| 6 | CHECK SPIRAL CABLE SUB-ASSEMBLY |
|---|---|




(a) Release the activation prevention mechanism built into connector "D" (see page RS-18).

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

**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D2+ - D2- | 1 MΩ or higher |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

| USE SIMULATION METHOD TO CHECK |
|---|

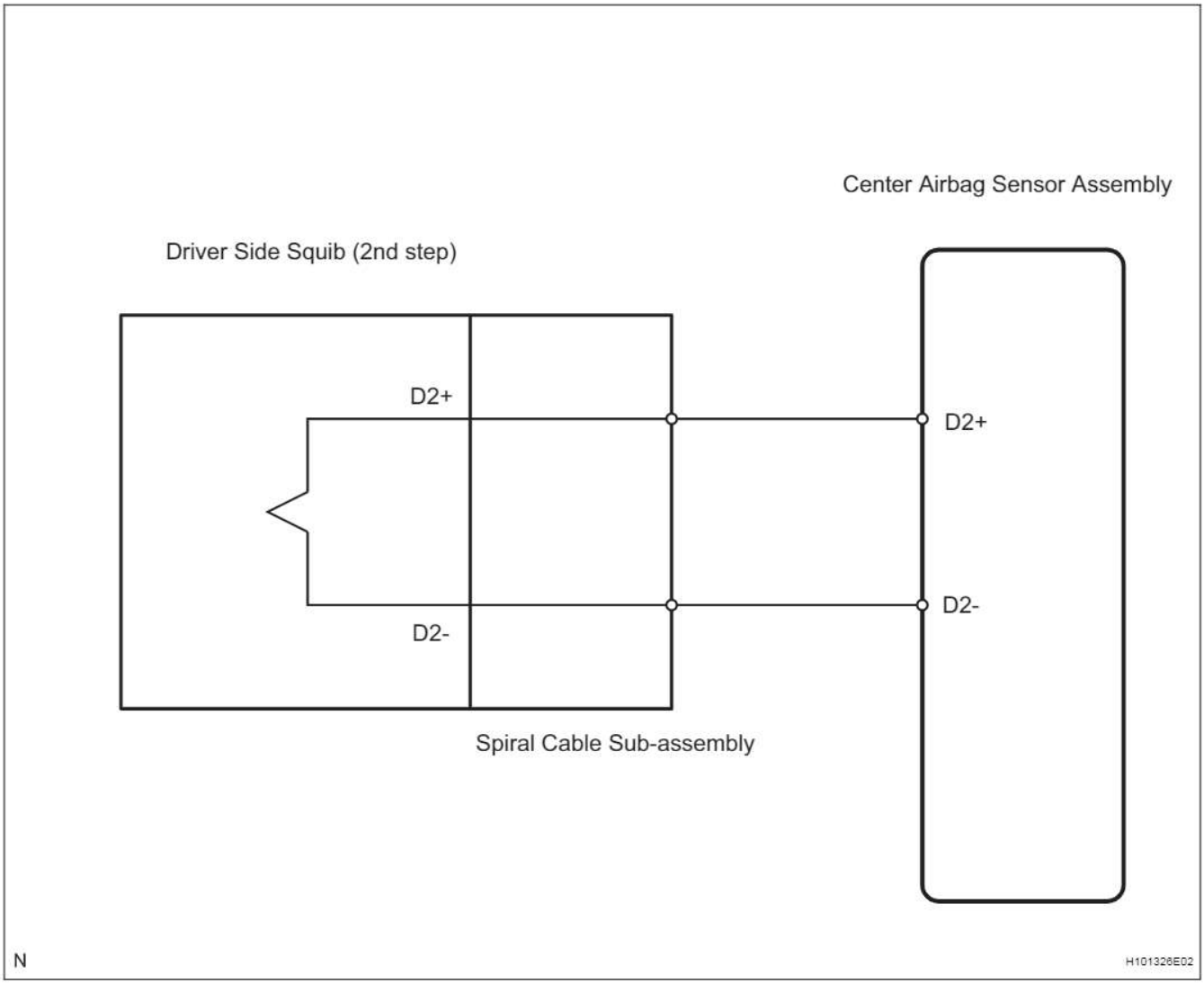
| DTC | B1181/18 | Open in Driver Side Squib 2nd Step Circuit |
|---|---|---|

## DESCRIPTION

The driver side squib (2nd step) circuit consists of the center airbag sensor, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1181/18 is recorded when an open is detected in the driver side squib (2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1181/18 | • Open in driver side squib (2nd step) circuit<br>• Driver side squib (2nd step) malfunction<br>• Spiral cable malfunction<br>• Center airbag sensor malfunction | • Steering pad assembly (driver side squib (2nd step))<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument wire |

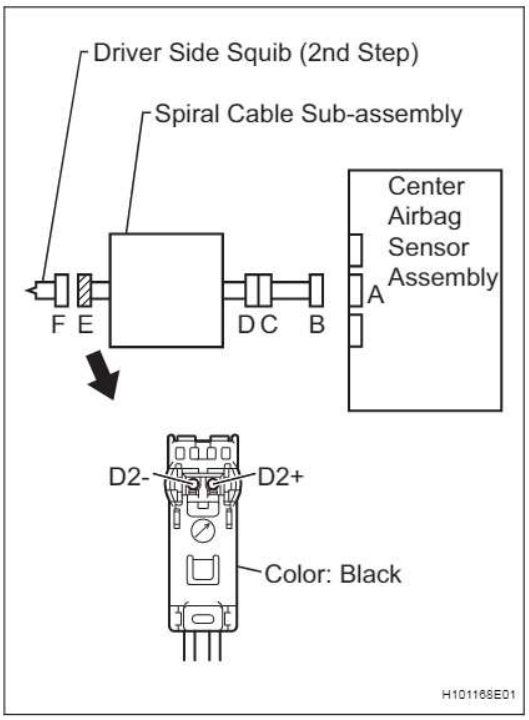
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR ASSEMBLY - STEERING PAD ASSEMBLY) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the steering pad.
(d) Measure the resistance according to the value(s) in the table below.

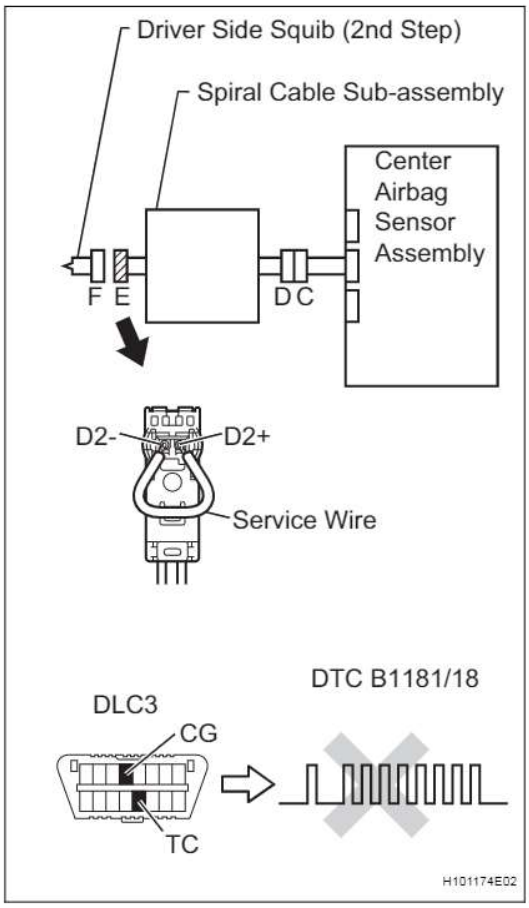
**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D2+ - D2- | Below 1 Ω |

NG → **Go to step 4**

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals D2+ and D2- of connector "E".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting,**

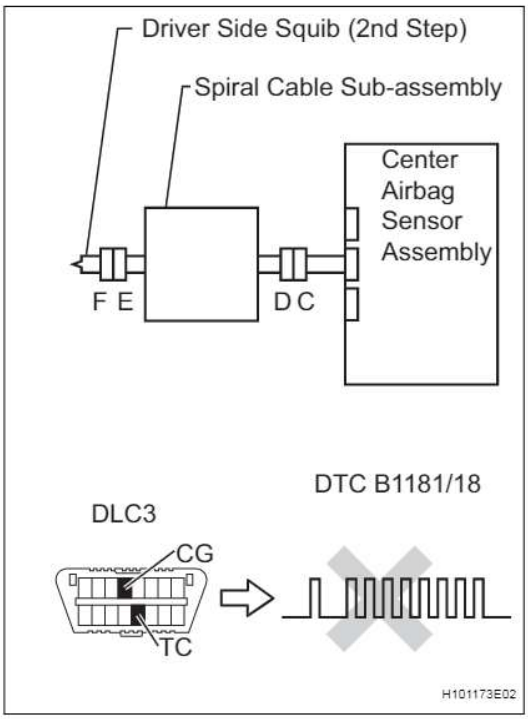
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B1181/18 is not output.**
HINT:
Codes other than code B1181/18 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB, 2ND STEP) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "E".
(d) Connect the connectors to the steering pad.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1181/18 is not output.**

HINT:

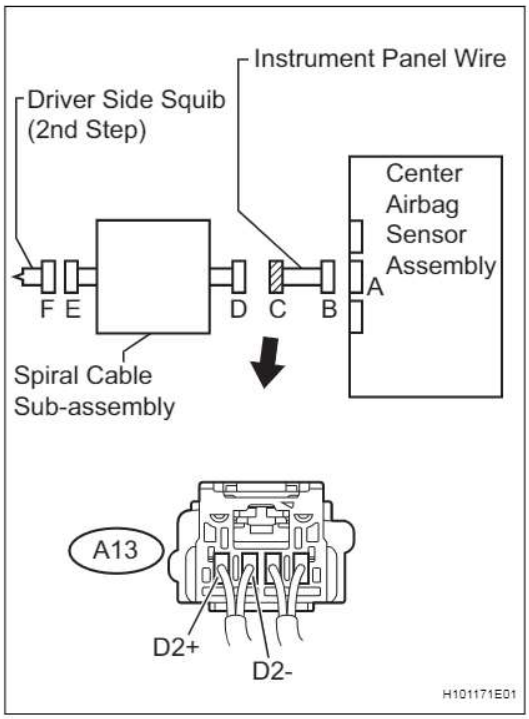
Codes other than code B1181/18 may be output at this time, but they are not relevant to this check.

NG → **REPLACE STEERING PAD ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

## 4 CHECK INSTRUMENT PANEL WIRE




(a) Disconnect the instrument panel wire connector from the spiral cable.

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

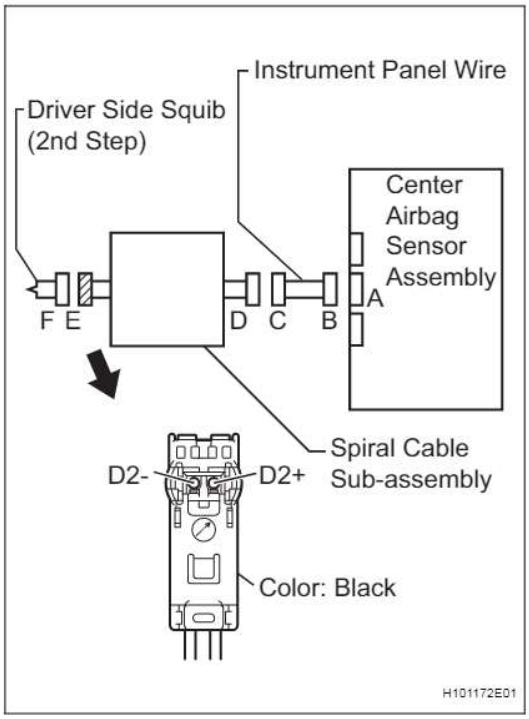
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A13-4 (D2+) - A13-3 (D2-) | Below 1 Ω |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

## 5 CHECK SPIRAL CABLE SUB-ASSEMBLY




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

**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A13-4 (D2+) - A13-3 (D2-) | Below 1 Ω |

NG → **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

RS

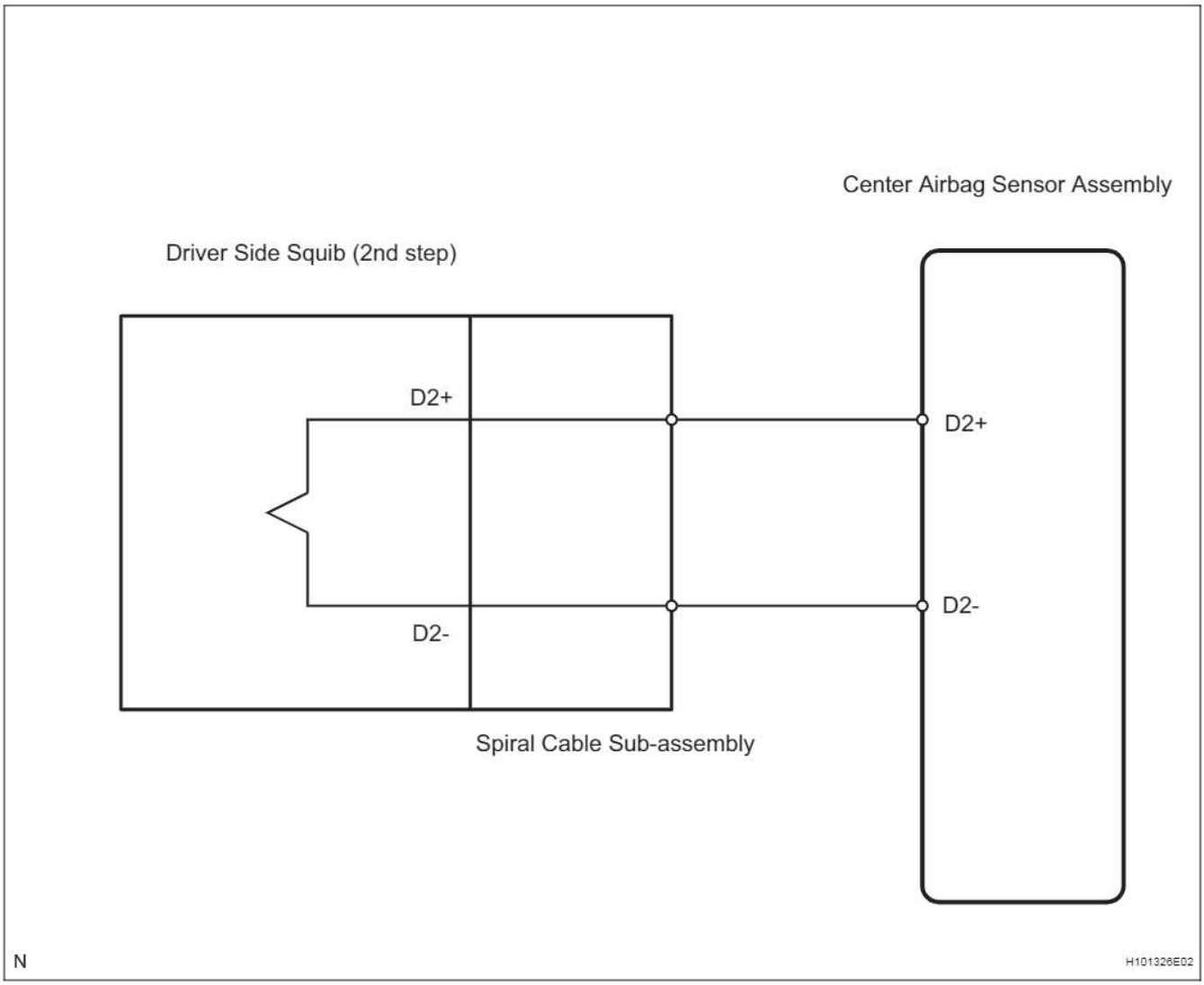
| DTC | B1182/19 | Short to GND in Driver Side Squib 2nd Step Circuit |
|---|---|---|

## DESCRIPTION

The driver side squib (2nd step) circuit consists of the center airbag sensor, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1182/19 is recorded when a ground short is detected in the driver side squib (2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1182/19 | • Short in driver side squib (2nd step) circuit (to ground)<br>• Driver side squib (2nd step) malfunction<br>• Spiral cable malfunction<br>• Center airbag sensor malfunction | • Steering pad assembly (driver side squib (2nd step))<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |

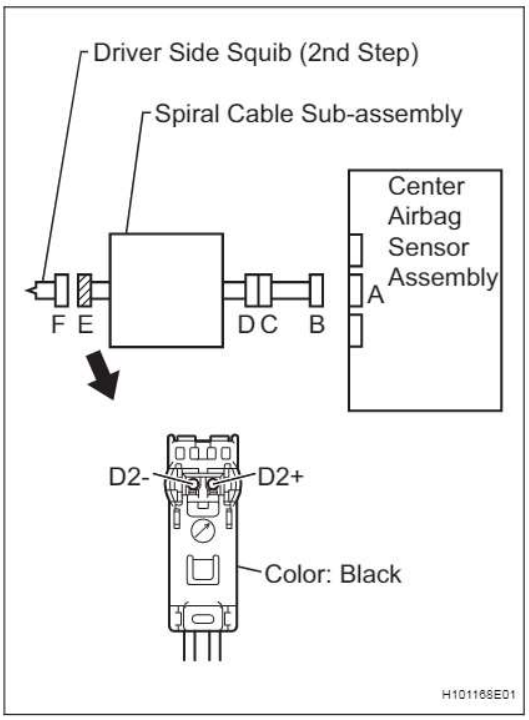
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR - STEERING PAD ASSEMBLY) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the steering pad.
(d) Measure the resistance according to the value(s) in the table below.

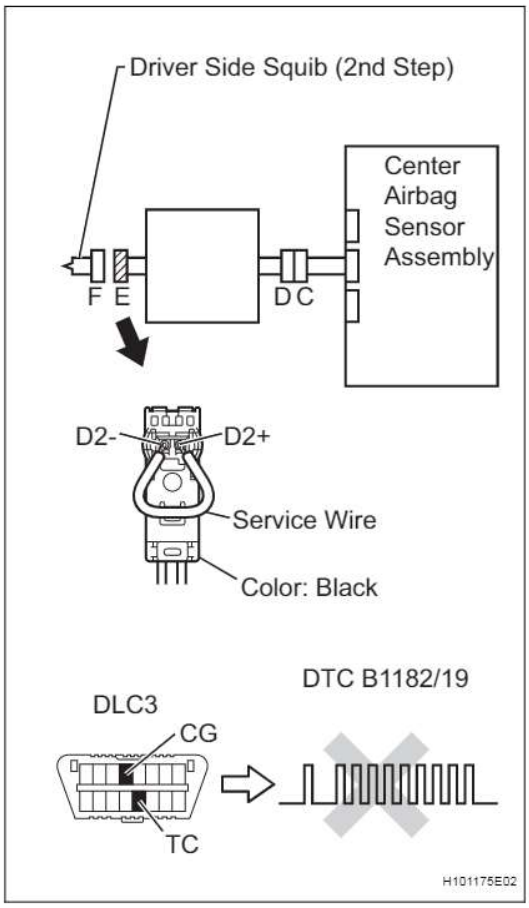
**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D2+ - Body ground | 1 MΩ or higher |
| D2- - Body ground | 1 MΩ or higher |

NG → Go to step 5

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect terminals D2+ and D2- of connector "E".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

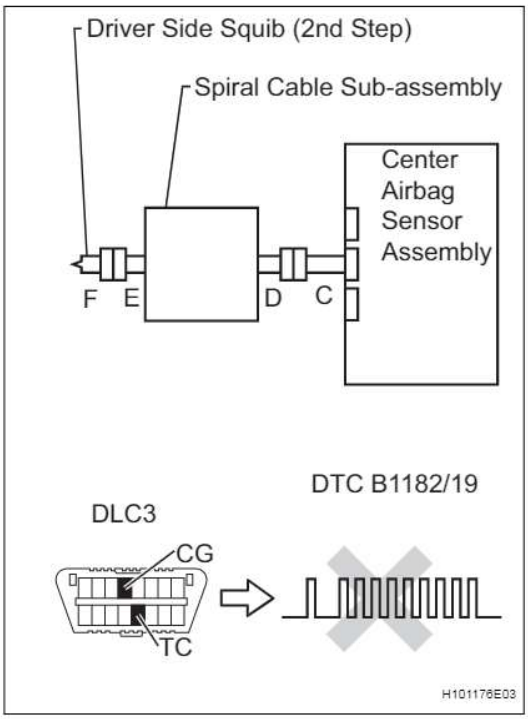
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B1182/19 is not output.**
HINT:
Codes other than code B1182/19 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB, 2ND STEP) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "E".
(d) Connect the connector to the steering pad.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1182/19 is not output.**

HINT:

Codes other than code B1182/19 may be output at this time, but they are not relevant to this check.

NG → **REPLACE STEERING PAD ASSEMBLY**

OK

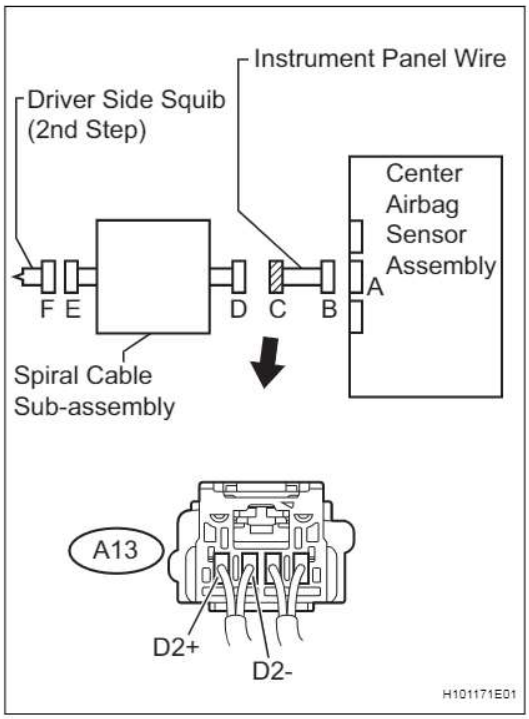
| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

## 5 CHECK INSTRUMENT PANEL WIRE




(a) Disconnect the instrument panel wire connector from the spiral cable.

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

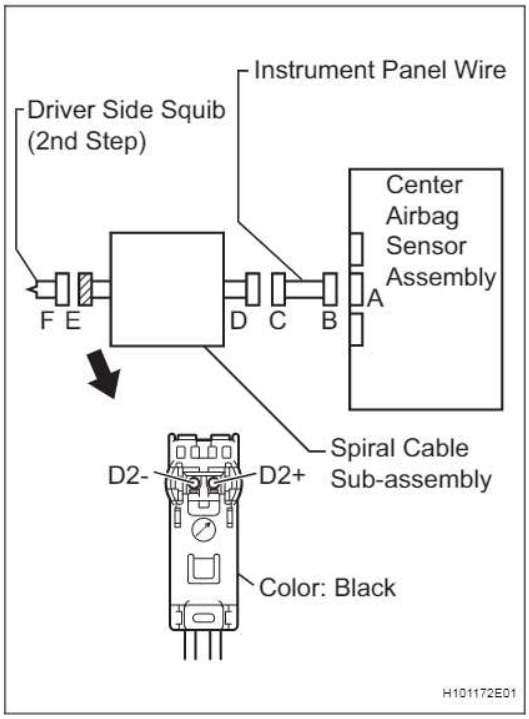
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A13-4 (D2+) - Body ground | 1 MΩ or higher |
| A13-3 (D-) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

## 6 CHECK SPIRAL CABLE SUB-ASSEMBLY




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

**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D2+ - Body ground | 1 MΩ or higher |
| D- - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

| | |
|---|---|
| 7 | USE SIMULATION METHOD TO CHECK |

NG → Go to step 1

RS

OK ↓

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

| DTC | B0100/13 | Short in Driver Side Squib Circuit |
|---|---|---|

## DESCRIPTION

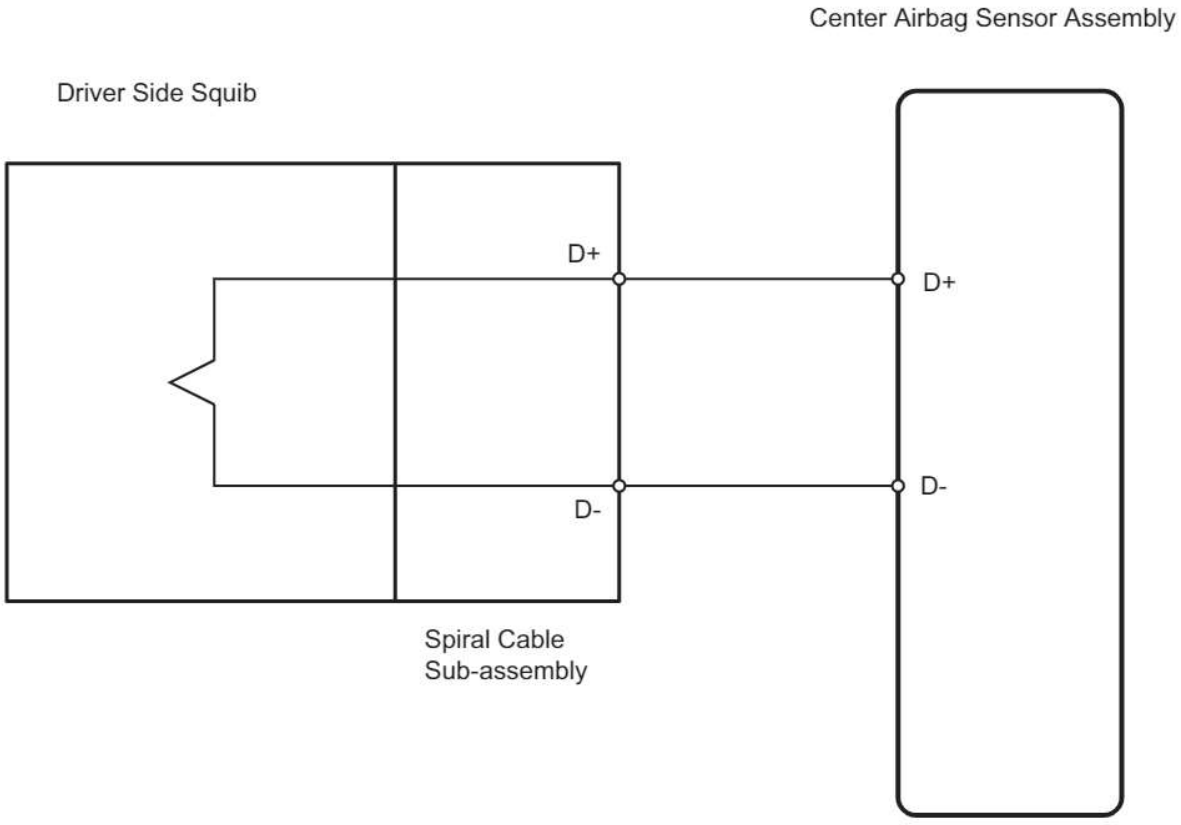
The driver side squib circuit consists of the center airbag sensor, the spiral cable and the steering pad. The circuit instructs the SRS to deploy when deployment conditions are met.

RS

DTC B0100/13 is recorded when a short circuit is detected in the driver side squib circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0100/13 | • Short in driver side squib circuit<br>• Driver side squib malfunction<br>• Spiral cable malfunction<br>• Center airbag sensor malfunction | • Steering pad (driver side squib)<br>• Spiral cable assembly<br>• Center airbag sensor sub-assembly<br>• Instrument panel wire |

## WIRING DIAGRAM




## INSPECTION PROCEDURE

| 1 | CHECK CONNECTOR |
|---|---|

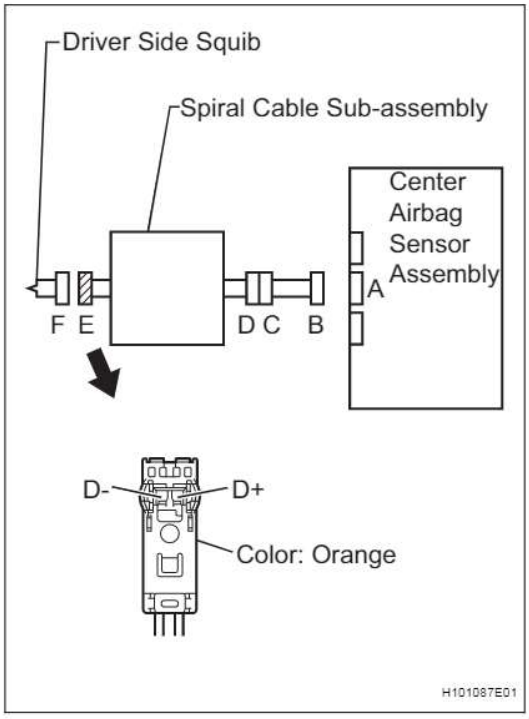
(a) Turn the ignition switch to LOCK.

(b) Disconnect the negative (-) battery terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Check that the spiral cable connectors (on the steering pad side) are not damaged.
**OK:**
**The lock button is not disengaged, or the claw of the lock is not deformed or damaged.**

NG → **REPLACE SPIRAL CABLE SUB-ASSEMBLY**

OK

**2 CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR - STEERING PAD)**




(a) Disconnect the connector from the center airbag sensor.
(b) Release the activation prevention mechanism built into the connector "B" (see page RS-18).
(c) Measure the resistance according to the value(s) in the table below.
**Standard resistance**

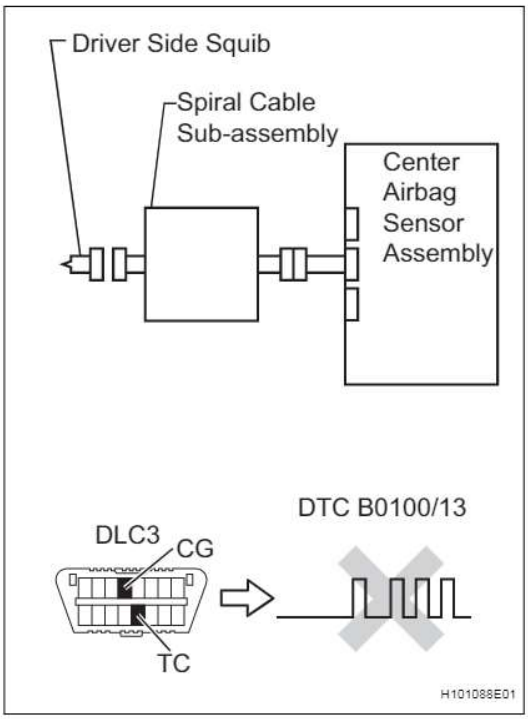
| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D+ - D- | 1 MΩ or higher |

NG → **Go to step 5**

OK

RS

## 3 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B0100/13 is not output.**

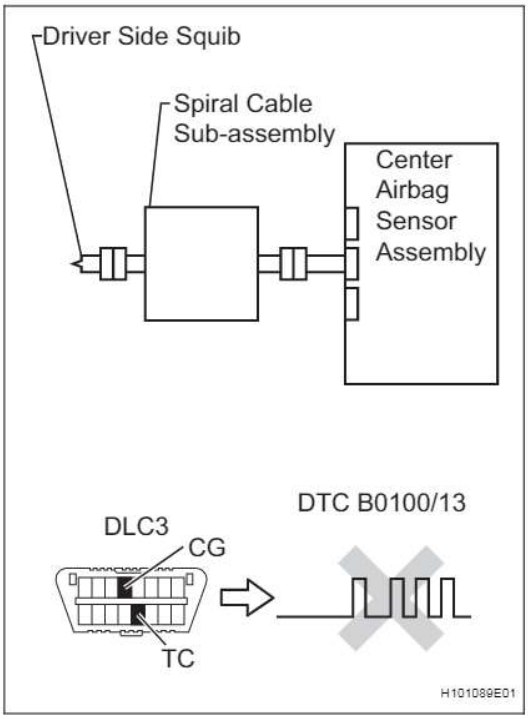
HINT:

Codes other than code B0100/13 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

## 4 CHECK STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connectors to the steering pad assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B0100/13 is not output.**

HINT:

Codes other than code B0100/13 may be output at this time, but they are not relevant to this check.

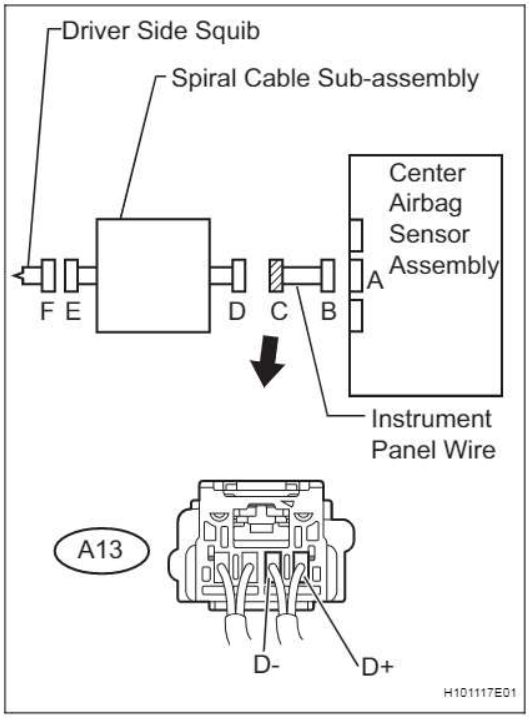
NG → **REPLACE STEERING PAD ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

RS

| 5 | CHECK INSTRUMENT PANEL WIRE |
|---|---|




(a) Disconnect the instrument panel wire connector from the spiral cable.
HINT:
The activation prevention mechanism of connector "B" has already been released.

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

**Standard resistance**

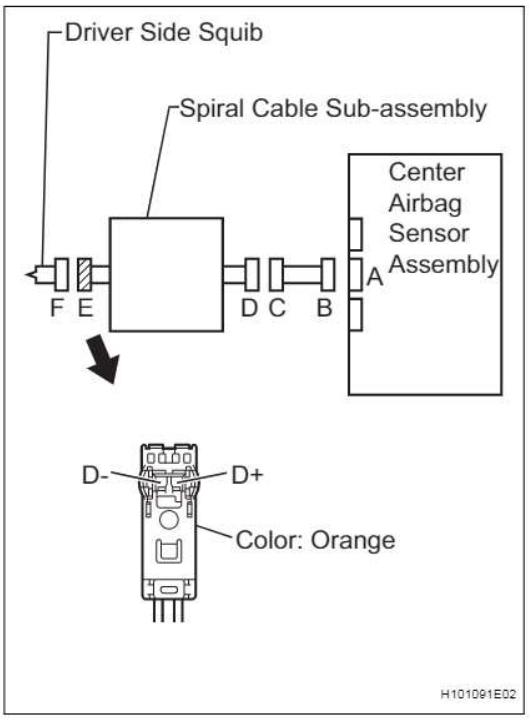
| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A13-1 (D+) - A13-2 (D-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

RS

| 6 | CHECK SPIRAL CABLE SUB-ASSEMBLY |
|---|---|




(a) Release the activation prevention mechanism built into connector "D" (see page RS-18).

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

**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D+ - D- | 1 MΩ or Higher |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

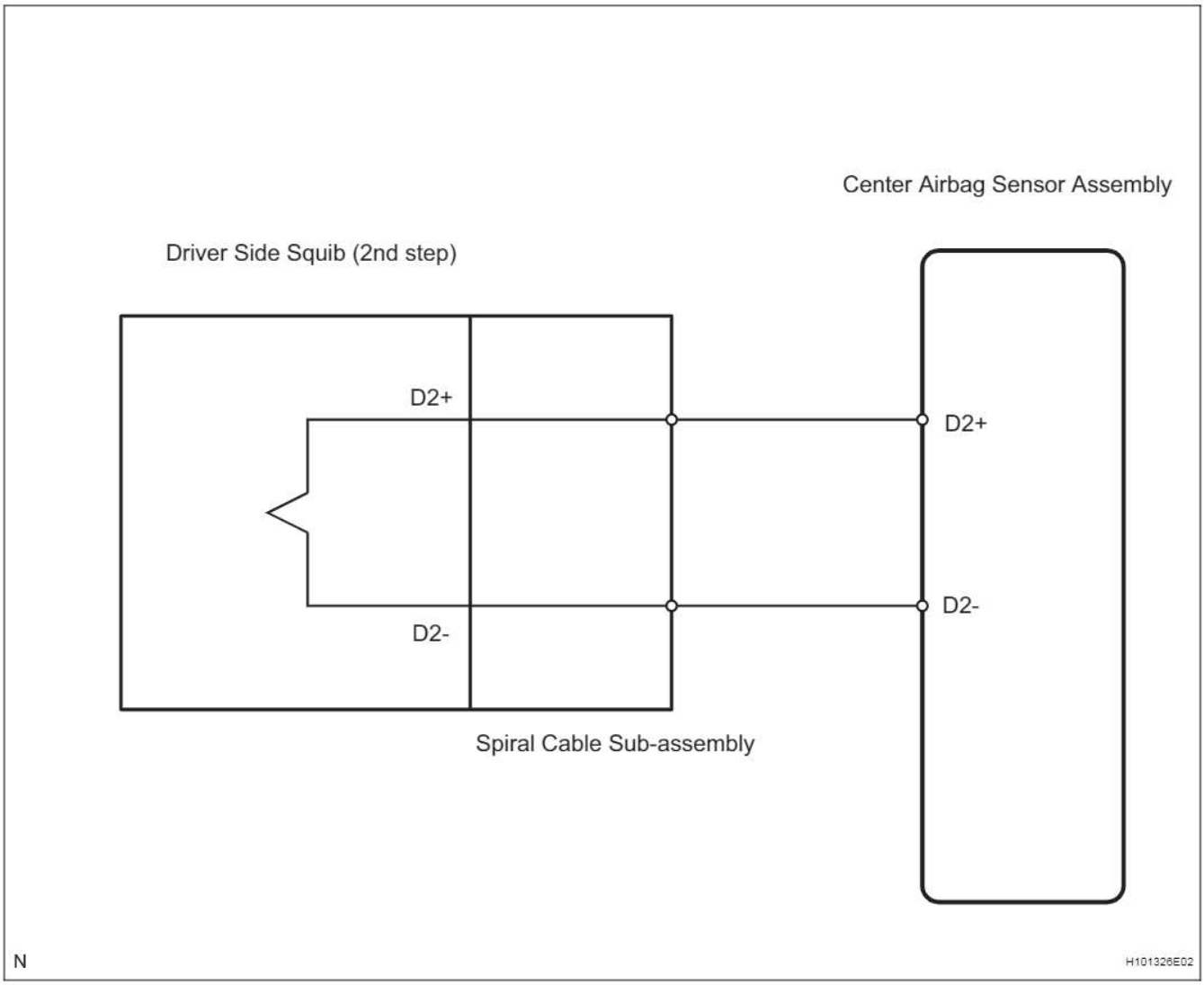
| DTC | B1183/22 | Short to B+ in Driver Side Squib 2nd Step Circuit |
|---|---|---|

## DESCRIPTION

The driver side squib (2nd step) circuit consists of the center airbag sensor, the spiral cable and the steering pad.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1183/22 is recorded when a B+ short is detected in the driver side squib (2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1183/22 | • Short in driver side squib (2nd step) circuit (to B+)<br>• Driver side squib (2nd step) malfunction<br>• Spiral cable malfunction<br>• Center airbag sensor malfunction | • Steering pad assembly (driver side squib (2nd step))<br>• Spiral cable assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |

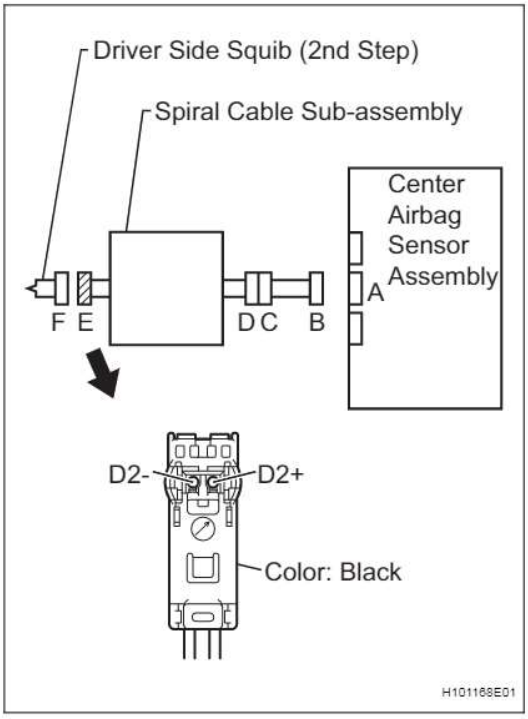
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR - STEERING PAD) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the steering pad.
(d) Connect the negative (-) terminal cable to the battery and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

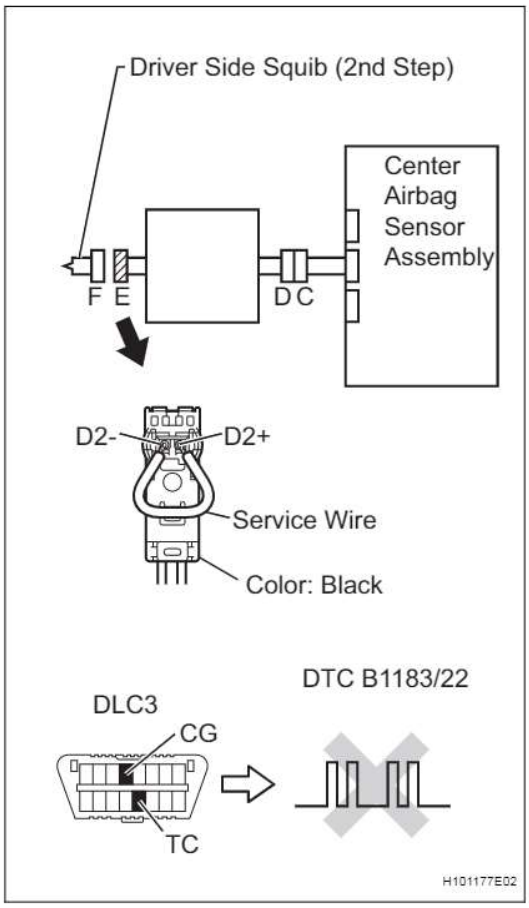
**Standard voltage**

| Tester Connection (Connector "E") | Condition | Specified Condition |
|---|---|---|
| D2+ - Body ground | Ignition switch ON | Below 1 V |
| D2- - Body ground | Ignition switch ON | Below 1 V |

NG → Go to step 5

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using a service wire, connect terminals D2+ and D2- of connector "E".
**NOTICE:**
- **Twist the end of the service wire in order to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting,**

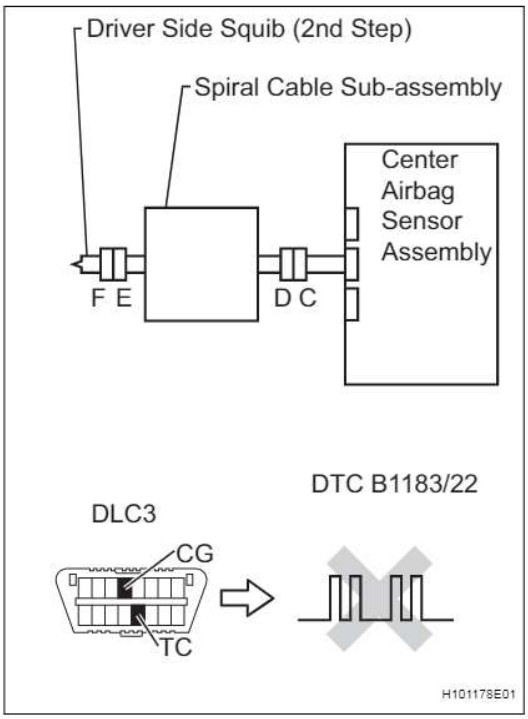
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).
**OK:**
**DTC B1183/22 is not output.**
HINT:
Codes other than code B1183/22 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB, 2ND STEP) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "E".
(d) Connect the connectors to the steering pad.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1183/22 is not output.**

HINT:

Codes other than code B1183/22 may be output at this time, but they are not relevant to this check.

NG → **REPLACE STEERING PAD ASSEMBLY**

OK

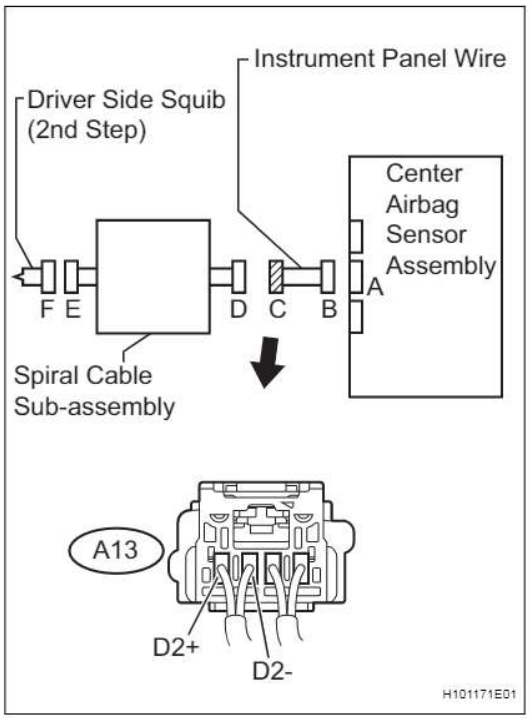
| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

## 5 CHECK INSTRUMENT PANEL WIRE




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the instrument panel wire connector from the spiral cable sub-assembly.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

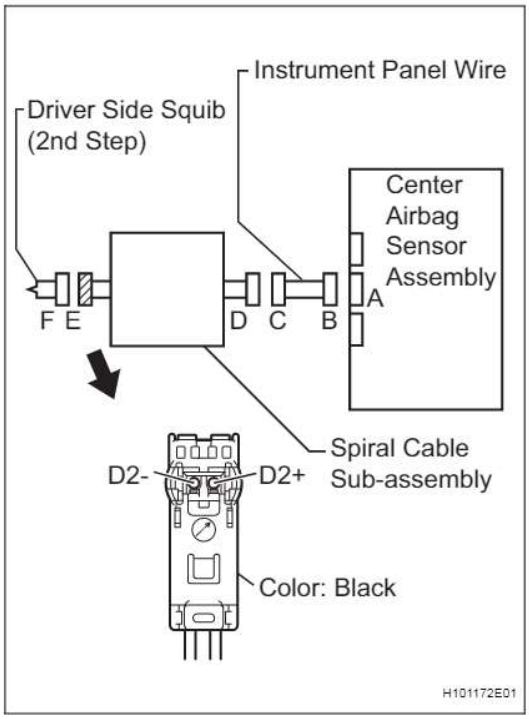
**Standard voltage**

| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| A13-4 (D2+) - Body ground | Ignition switch ON | Below 1 V |
| A13-3 (D2-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 6 CHECK SPIRAL CABLE SUB-ASSEMBLY




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

**Standard voltage**

| Tester Connection (Connector "E") | Condition | Specified Condition |
|---|---|---|
| D2+ - Body ground | Ignition switch ON | Below 1 V |
| D2- - Body ground | Ignition switch ON | Below 1 V |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

| 7 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → Go to step 1

RS

OK ↓

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

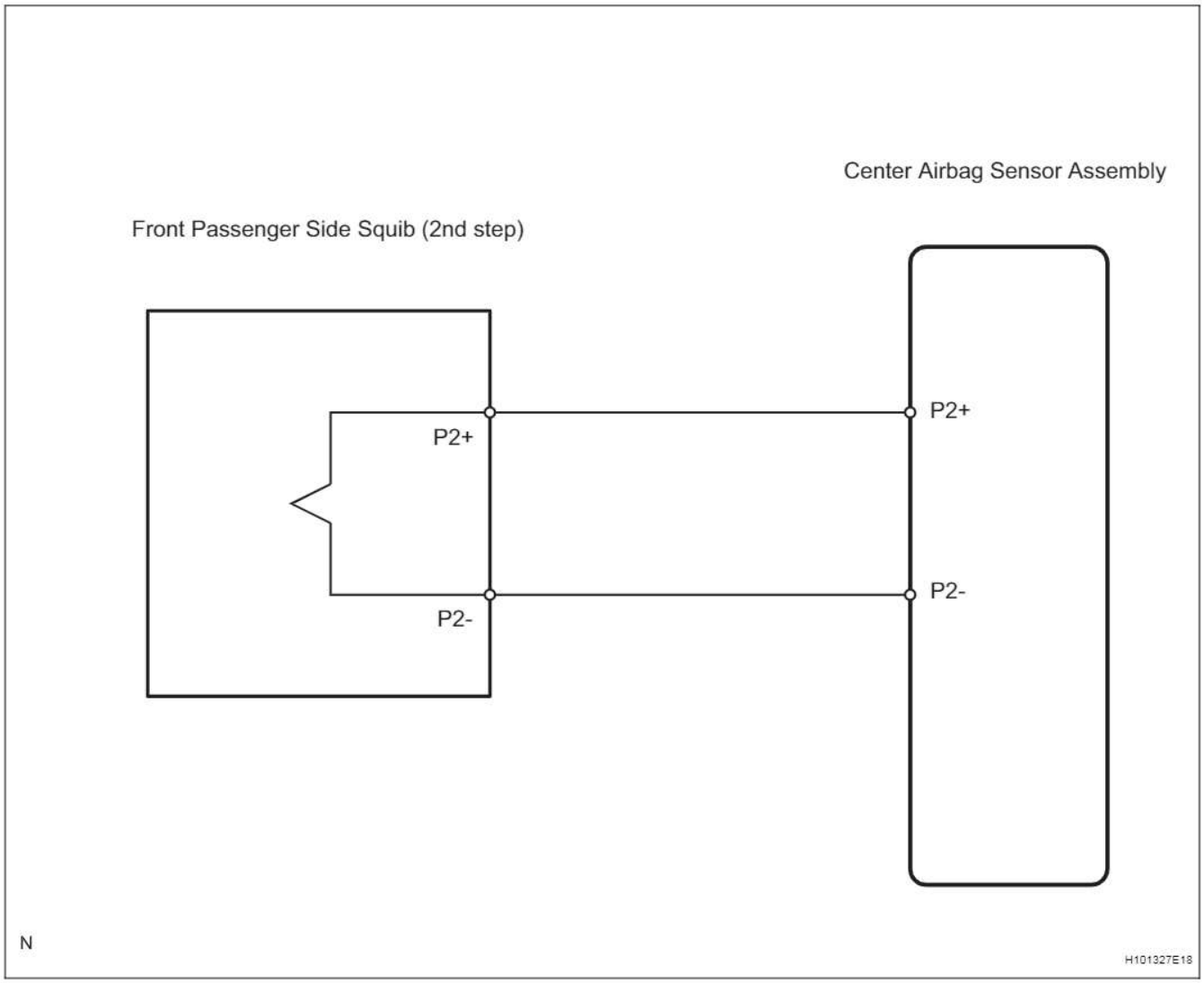
| DTC | B1185/57 | Short in Front Passenger Side Squib 2nd Step Circuit |
|---|---|---|

## DESCRIPTION

The front passenger side squib (2nd step) circuit consists of the center airbag sensor and the front passenger airbag.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1185/57 is recorded when a short is detected in the front passenger side squib (2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1185/57 | • Short in front passenger side squib (2nd step) circuit<br>• Front passenger side squib (2nd step) malfunction<br>• Center airbag sensor malfunction | • Front passenger airbag assembly (front passenger side squib (2nd step))<br>• Center airbag sensor assembly<br>• Instrument panel wire |

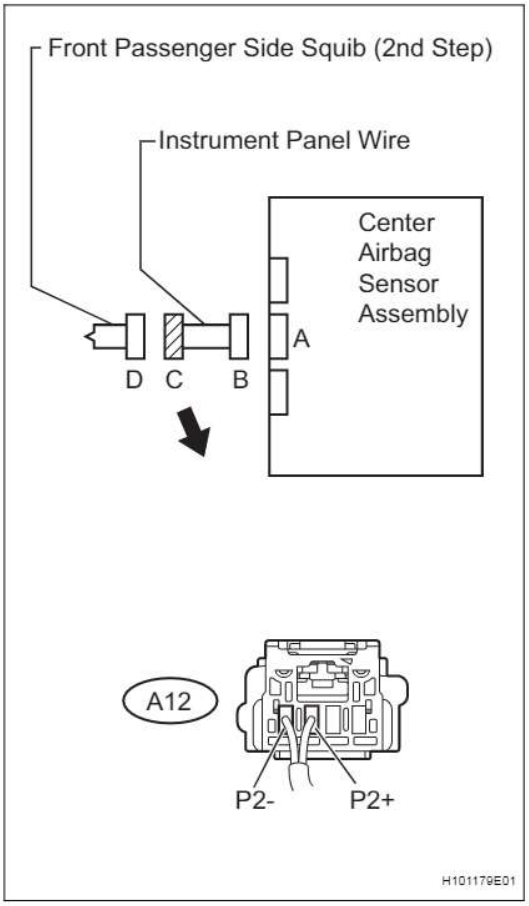
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK INSTRUMENT PANEL WIRE |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable form the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front passenger airbag.
(d) Release the activation prevention mechanism built into connector "B" (see page RS-18).
(e) Measure the resistance according to the value(s) in the table below.

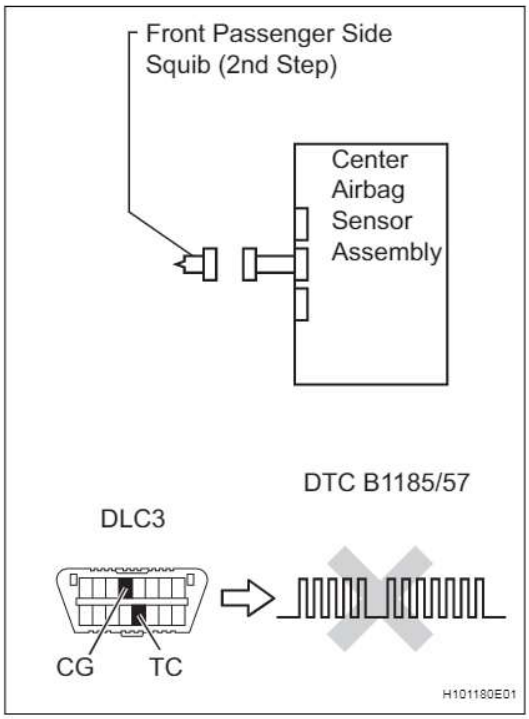
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A12-3 (P2+) - A12-4 (P2-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B1185/57 is not output.**

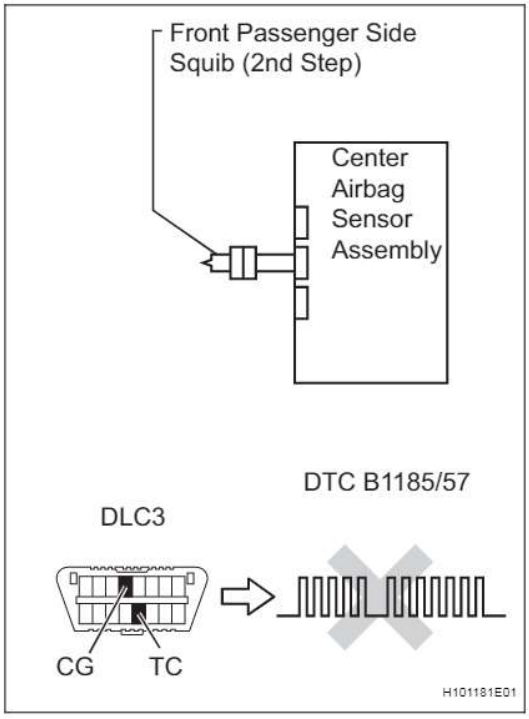
HINT:

Codes other than code B1185/57 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB, (2ND STEP)) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the front passenger airbag.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B1185/57 is not output.**

HINT:

Codes other than code B1185/57 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

OK

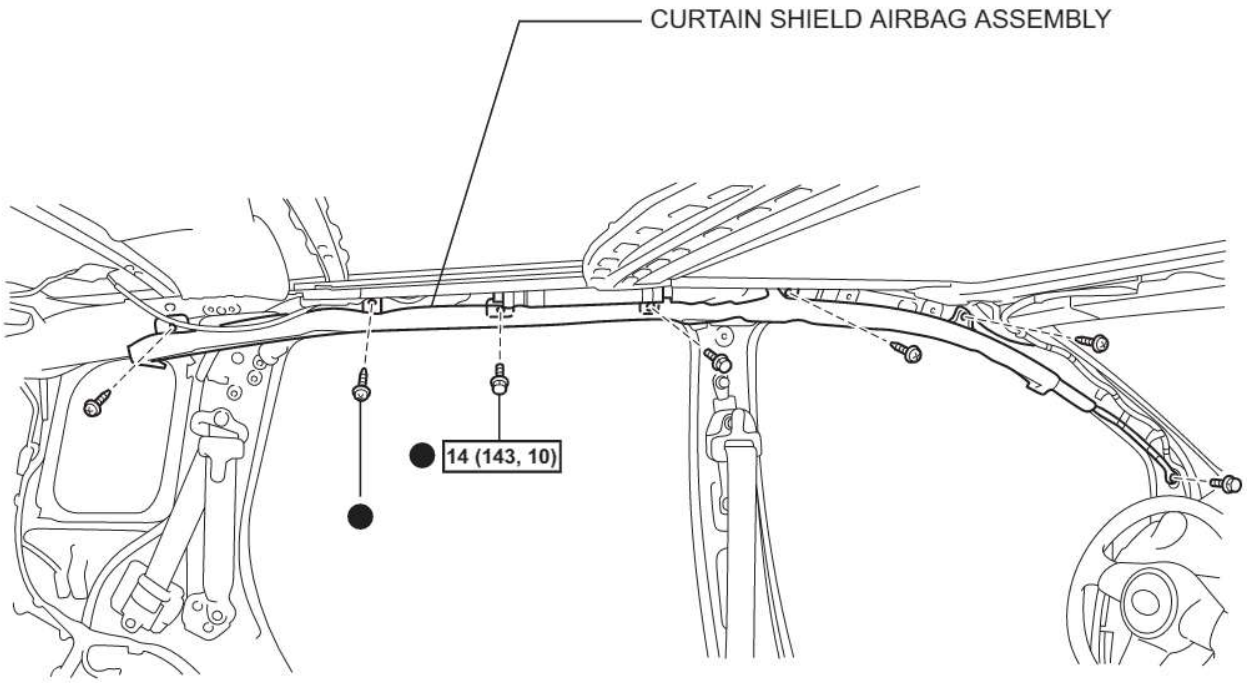
USE SIMULATION METHOD TO CHECK

RS

# CURTAIN SHIELD AIRBAG ASSEMBLY

## COMPONENTS

RS




N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part

T

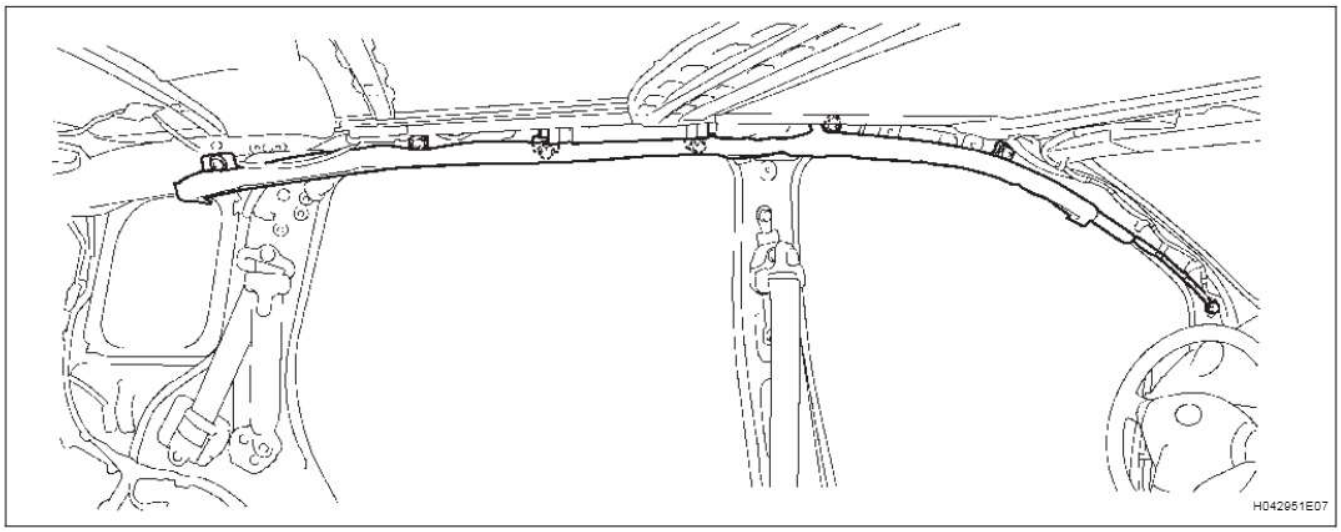
C119030E02

# ON-VEHICLE INSPECTION

**1. CHECK CURTAIN SHIELD AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)**

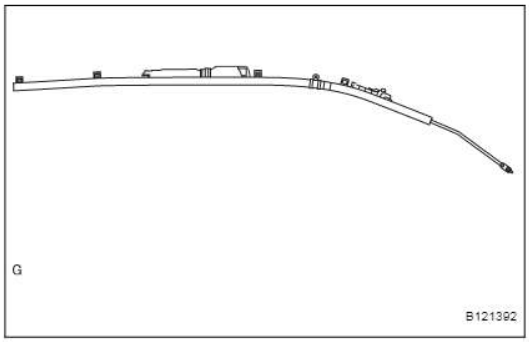
(a) Perform a diagnostic system check (see page RS-33).

(b) With the curtain shield airbag installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front pillar garnish or roof headlining with a new one:




Cuts, minute cracks or marked discoloration on the front pillar garnish or roof headlining around the curtain shield airbag.

**CAUTION:**
**For removal and installation procedures of the curtain shield airbag assembly, be sure to follow the correct procedures.**




**2. CHECK CURTAIN SHIELD AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**

(a) Perform a diagnostic system check (see page RS-33).

(b) With the curtain shield airbag removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the curtain shield airbag with a new one:

- Cuts, minute cracks or marked discoloration on the curtain shield airbag.
- Cracks or other damage to the connectors.

**CAUTION:**
**For removal and installation procedures of the curtain shield airbag assembly, be sure to follow the correct procedures.**

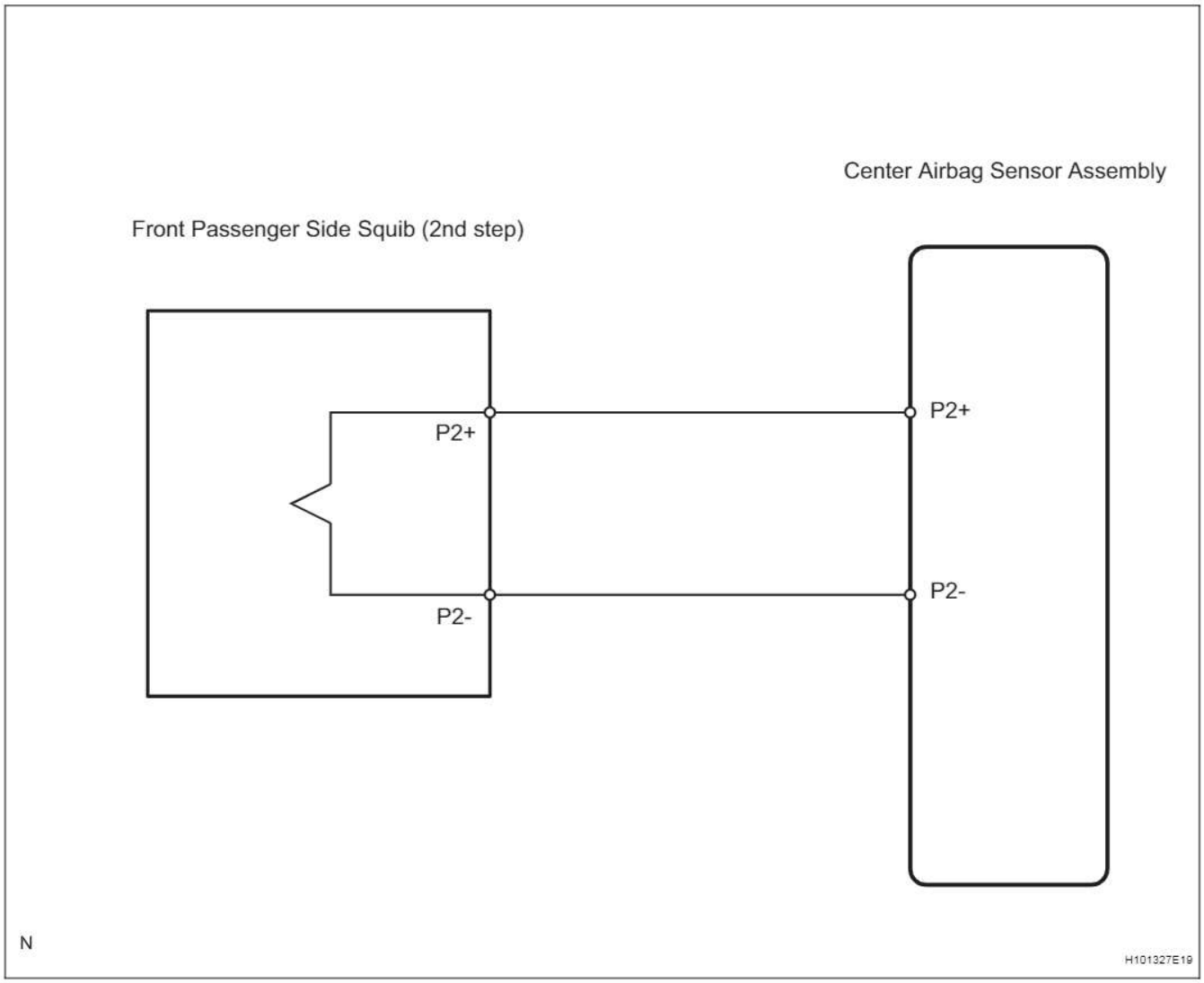
| DTC | B1186/58 | Open in Front Passenger Side Squib 2nd Step Circuit |
|---|---|---|

## DESCRIPTION

The front passenger side squib (2nd step) circuit consists of the center airbag sensor and the front passenger airbag.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1186/58 is recorded when an open is detected in the front passenger side squib (2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1186/58 | • Open circuit in P2+ wire harness or P2- wire harness of P squib (2nd step)<br>• Front passenger side squib (2nd step) malfunction<br>• Center airbag sensor malfunction | • Front passenger airbag assembly (front passenger side squib (2nd step))<br>• Center airbag sensor assembly<br>• Instrument panel wire |

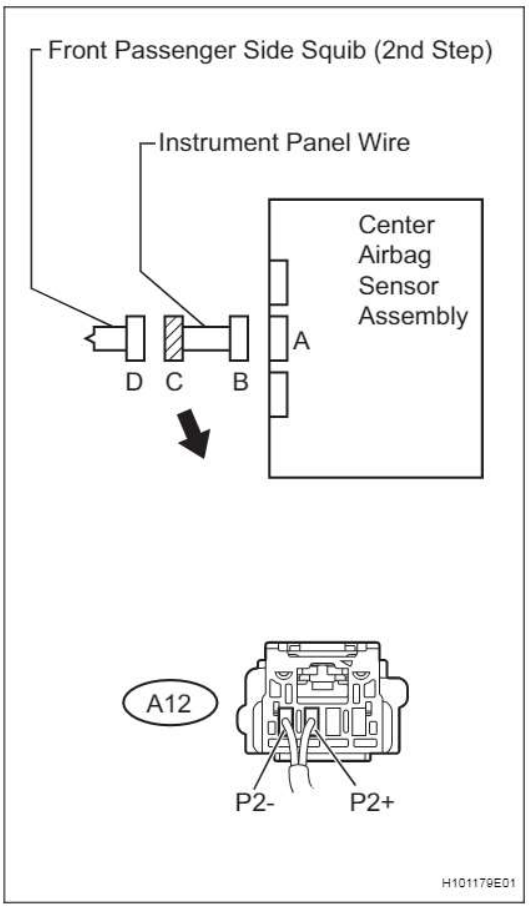
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT (2ND STEP)) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the instrument panel passenger airbag.
(d) Measure the resistance according to the value(s) in the table below.

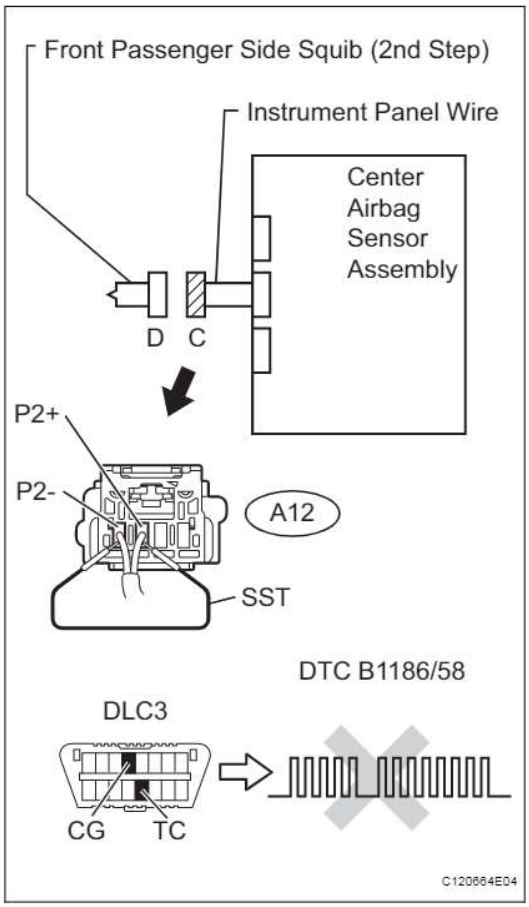
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A12-3 (P2+) - A12-4 (P2-) | Below 1 Ω |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the airbag sensor.
(b) Using SST, connect terminals P2+ and P2- of connector "C".

**SST 09843-18040**

**NOTICE:**
**Do not forcibly insert SST into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).

**OK:**
**DTC B1186/58 is not output.**

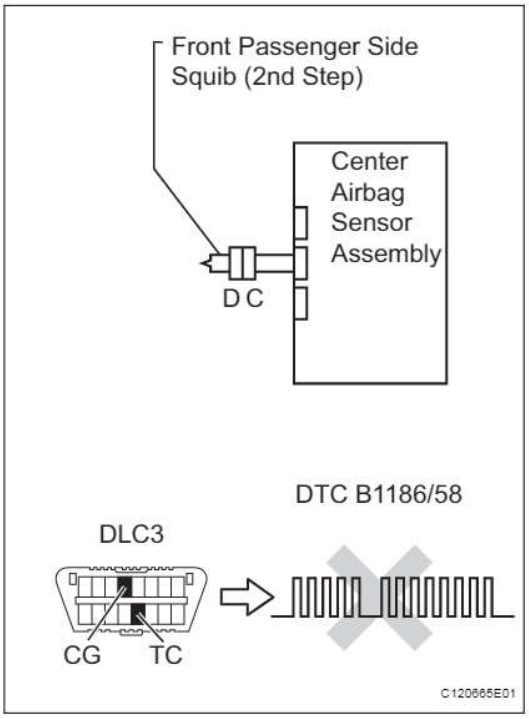
HINT:
Codes other than code B1186/58 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB, 2ND STEP) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the SST from the connector "C".
(d) Connect the connector to the front passenger airbag.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1186/58 is not output.**

HINT:

Codes other than code B1186/58 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

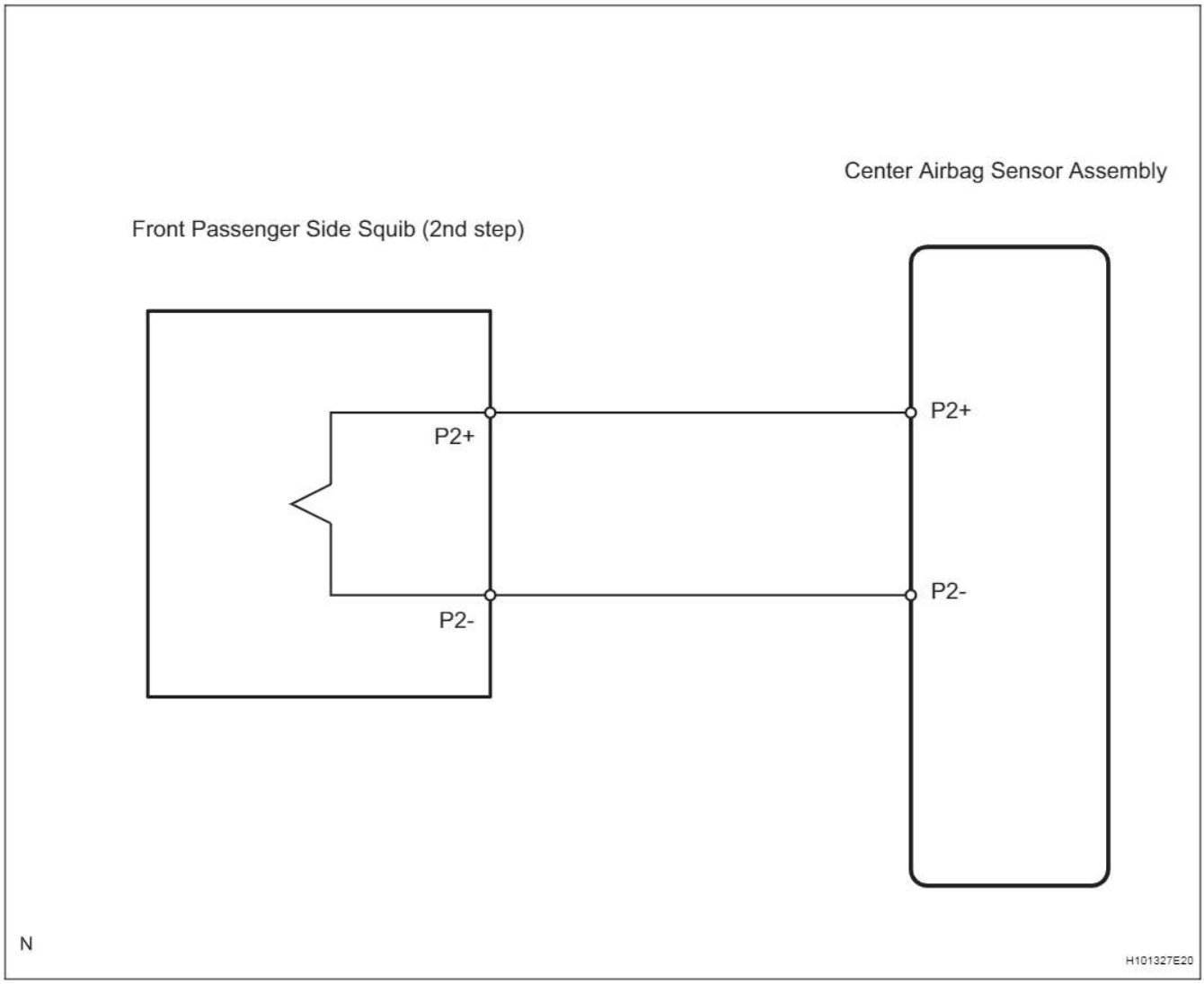
| DTC | B1187/55 | Short to GND in Front Passenger Side Squib 2nd Step Circuit |
|---|---|---|

## DESCRIPTION

The front passenger side squib (2nd step) circuit consists of the center airbag sensor and the front passenger airbag.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B1187/55 is recorded when a ground short is detected in the front passenger side squib (2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1187/55 | • Short in front passenger side squib (2nd step) circuit (to ground)<br>• Front passenger side squib (2nd step) malfunction<br>• Center airbag sensor malfunction | • Front passenger airbag assembly (front passenger side squib (2nd step))<br>• Center airbag sensor assembly<br>• Instrument panel wire |

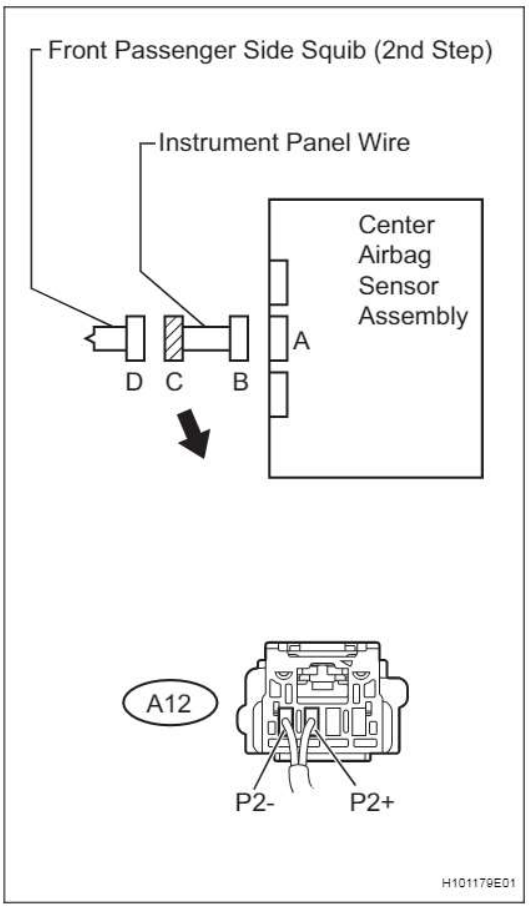
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT (2ND STEP)) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front passenger airbag.
(d) Measure the resistance according to the value(s) in the table below.

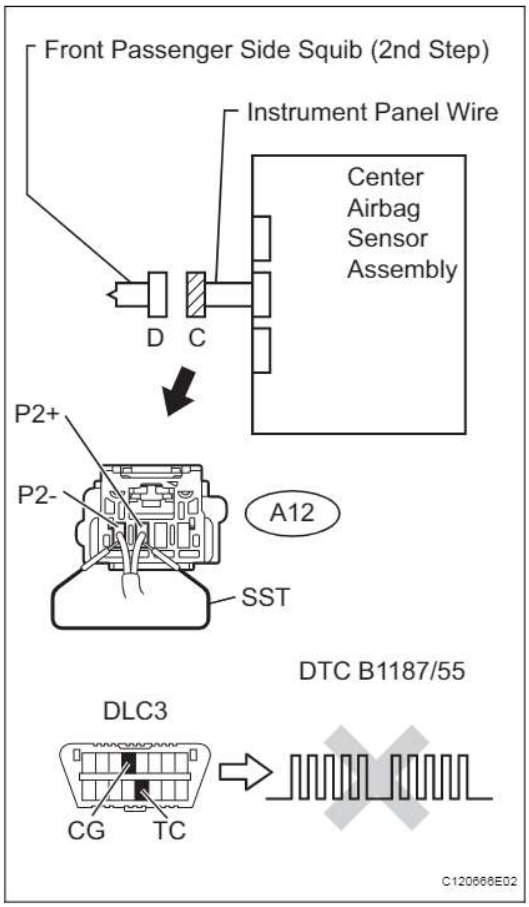
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A12-3 (P2+) - Body ground | 1 MΩ or higher |
| A12-4 (P2-) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Using SST, connect terminals P2+ and P2- of connector "C".

**SST 09843-18040**

**NOTICE:**

**Do not forcibly insert SST into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).

**OK:**

**DTC B1187/55 is not output.**

HINT:

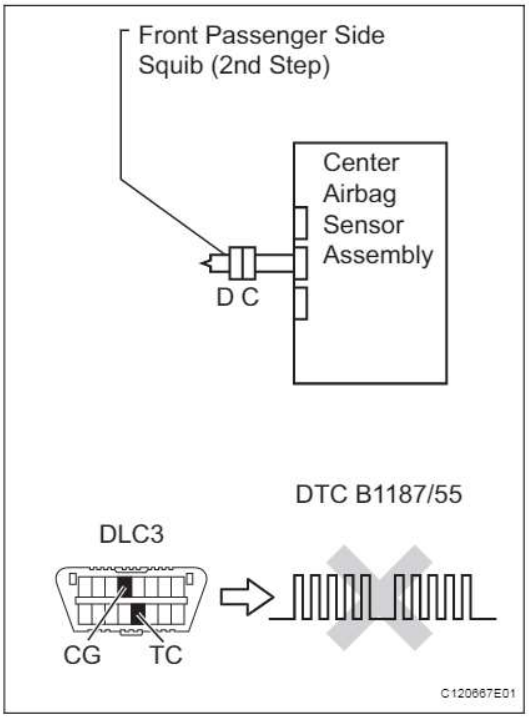
Codes other than code B1187/55 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB, 2ND STEP) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the SST from the connector "C".
(d) Connect the connector to the front passenger airbag.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1187/55 is not output.**

HINT:

Codes other than code B1187/55 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

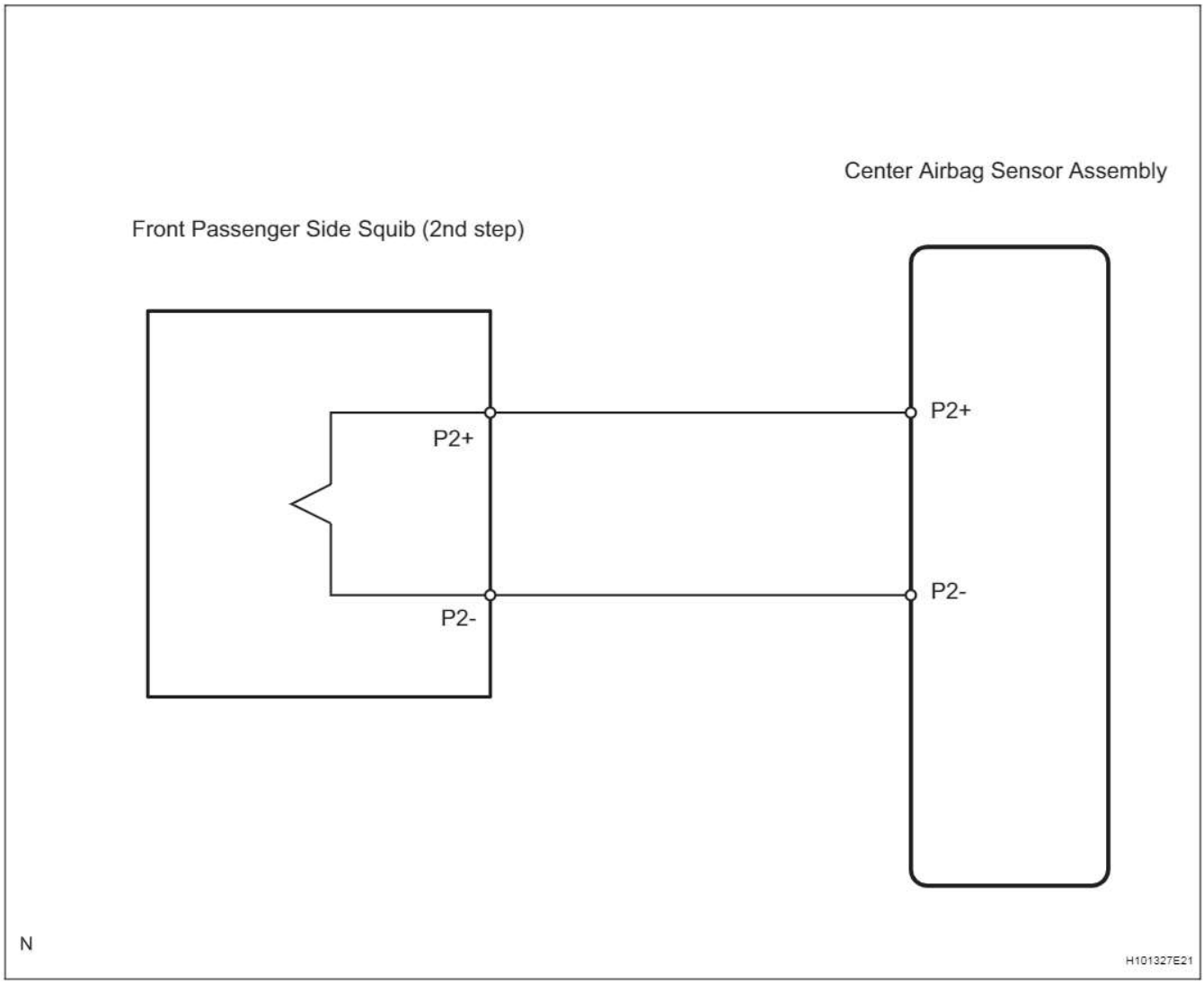
| DTC | B1188/56 | Short to B+ in Front Passenger Side Squib 2nd Step Circuit |
|---|---|---|

## DESCRIPTION

The front passenger side squib (2nd step) circuit consists of the center airbag sensor and the front passenger airbag.
The circuit instructs the SRS to deploy when the airbag deployment conditions are met.
DTC B1188/56 is recorded when a B+ short is detected in the front passenger side squib (2nd step) circuit.

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B1188/56 | • Short in front passenger side squib (2nd step) circuit (to B+)<br>• Front passenger side squib (2nd step) malfunction<br>• Center airbag sensor malfunction | • Front passenger airbag assembly (front passenger side squib (2nd step))<br>• Center airbag sensor assembly<br>• Instrument panel wire |

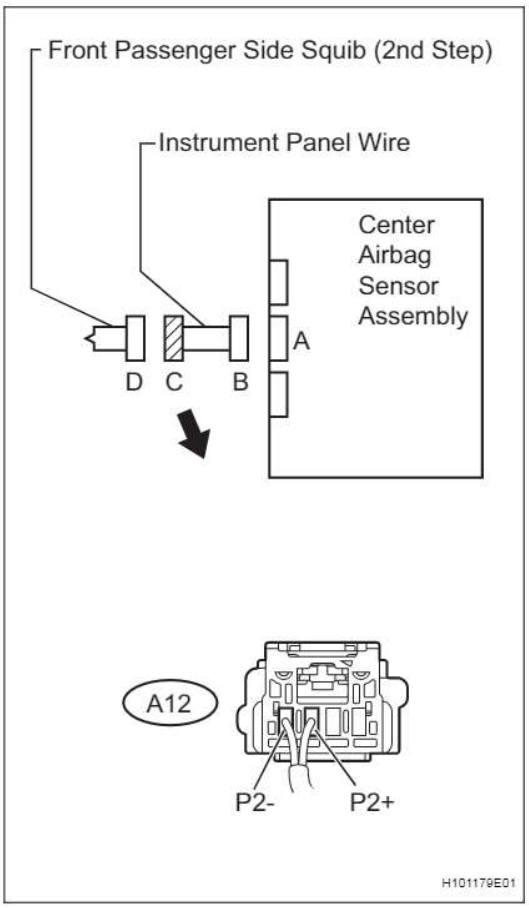
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT (2ND STEP)) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and the front passenger airbag.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

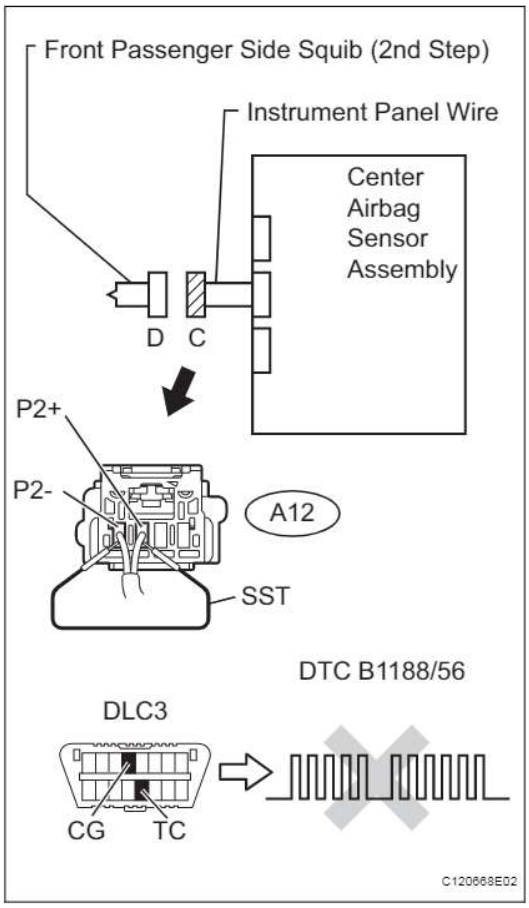
**Standard voltage**

| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| A12-3 (P2+) - Body ground | Ignition switch ON | Below 1 V |
| A12-4 (P2-) - Body ground | Ignition switch ON | Below 1 V |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using SST, connect terminals P2+ and P2- of connector "C".

**SST 09843-18040**

**NOTICE:**

**Do not forcibly insert SST into the terminals of the connector when connecting.**

(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1188/56 is not output.**

HINT:

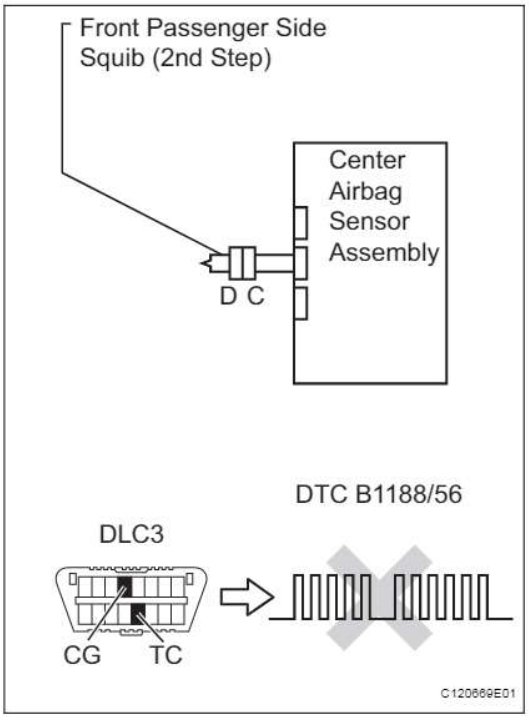
Codes other than code B1188/56 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB, 2ND STEP) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the SST from the connector "C".
(d) Connect the connector to the front passenger airbag.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B1188/56 is not output.**

HINT:

Codes other than code B1188/56 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

OK

| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

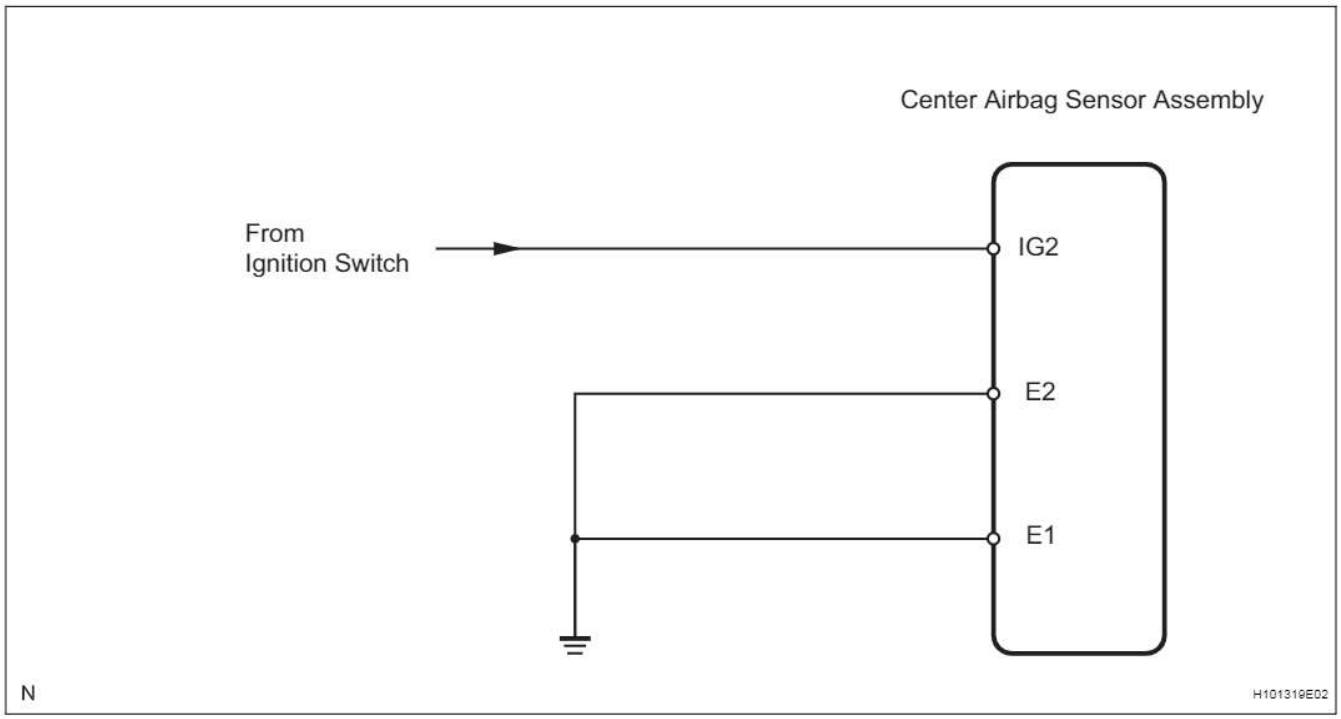
# Source Voltage Drop

## DESCRIPTION

The SRS is equipped with a voltage-increase circuit (DC-DC converter) in the center airbag sensor in case the source voltage drops.
When the battery voltage drops, the voltage-increase circuit (DC-DC converter) functions to increase the voltage of the SRS to normal voltage.
A malfunction in this circuit is displayed differently from other codes. In this circuit, no DTCs are recorded.
With a normal system code present, the source voltage drop is indicated when the SRS warning light comes on.
A malfunction in this circuit is not recorded in the center airbag sensor.
The SRS warning light automatically goes off when the source voltage returns to normal.

| DTC No. | Diagnosis |
|---|---|
| (Normal) | Source voltage drop |

## WIRING DIAGRAM




## INSPECTION PROCEDURE

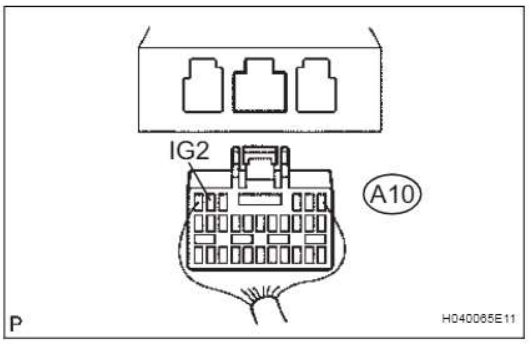
| 1 | PREPARE FOR INSPECTION |
|---|---|

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor (see page RS-325).

NEXT

RS

**2 CHECK SOURCE VOLTAGE**




(a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Measure the voltage according to the value(s) in the table below.

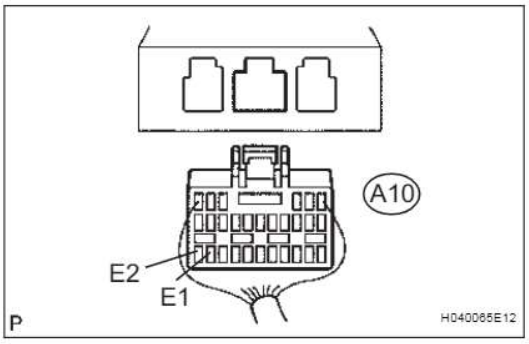
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| A10-5 (IG2) - Body ground | Ignition switch ON | 11 to 14 V |

NG → **REPAIR OR REPLACE WIRE HARNESS (BATTERY - CENTER AIRBAG SENSOR), CHARGING SYSTEM AND BATTERY)**

OK

**3 CHECK WIRE HARNESS (E1 (E2) - BODY GROUND)**




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A10-27 (E1) - Body ground | Below 1 Ω |
| A10-28 (E2) - Body ground | Below 1 Ω |

NG → **REPAIR OR REPLACE WIRE HARNESS (CENTER AIRBAG SENSOR - BODY GROUND)**

OK

**4 CHECK SRS WARNING LIGHT**

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the center airbag sensor connectors.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position, and wait for at least 6 seconds.
(f) Operate all components of the electrical system (defogger, wiper, headlight, heater blower, etc.) and check that SRS warning light does not come on.

**OK:**

**SRS warning light does not come on.**

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

END

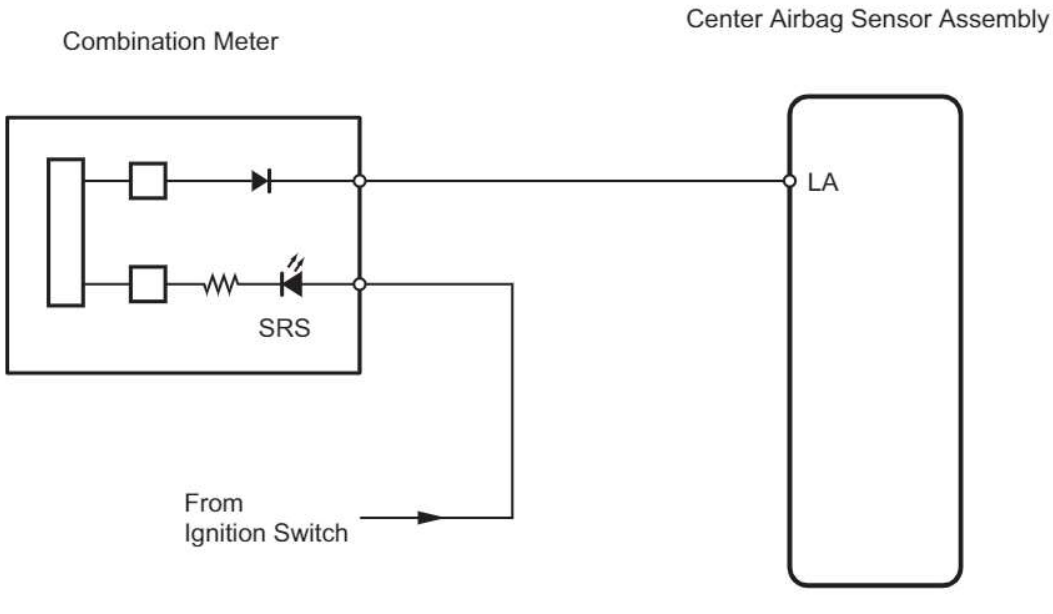
# SRS Warning Light Remains ON

## DESCRIPTION

RS

The SRS warning light is located on the combination meter.
When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the ignition switch is turned from the LOCK position to ON position, and then turns off automatically.
If there is a malfunction in the SRS, the SRS warning light lights up to inform the driver of the abnormality.
When terminal TC and CG of the DLC3 are connected, the DTC is indicated by blinking the SRS warning light.

## WIRING DIAGRAM




## INSPECTION PROCEDURE

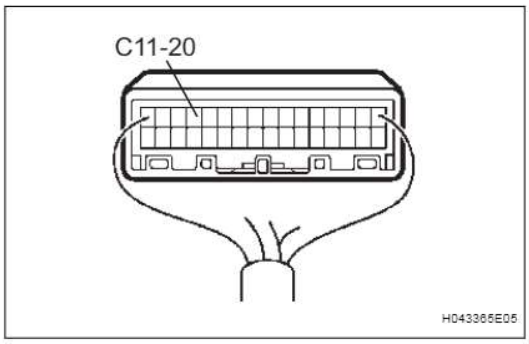
| 1 | CONNECT CONNECTORS |
|---|---|

(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Check that the connectors are properly connected to the center airbag sensor.
**OK:**
**Connectors are connected.**

NG → CONNECT CONNECTORS

OK

## 2 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Disconnect the connector from the combination meter.
(b) Connect the negative (-) terminal cable to the battery.
(c) Measure the voltage according to the value(s) in the table below.

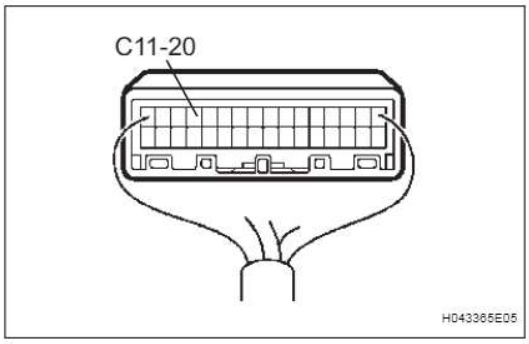
**Standard voltage**

| Tester Connection | Condition | Specified Condition |
|---|---|---|
| C11-20 - Body ground | Ignition switch ON | Above 8 V |

NG → **Go to step 4**

OK

## 3 CHECK INSTRUMENT PANEL WIRE (TO B+) (CENTER AIRBAG SENSOR - COMBINATION METER)




(a) Disconnect the connector from the center airbag sensor
(b) Measure the voltage according to the value(s) in the table below.

**Standard voltage**

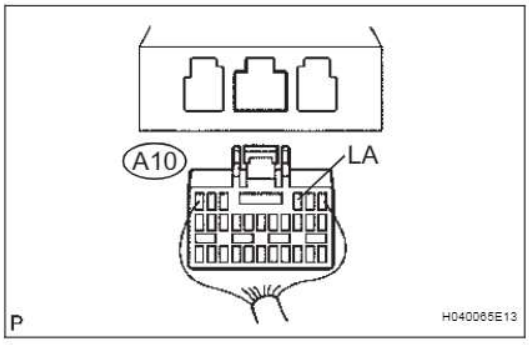
| Tester Connection | Condition | Specified Condition |
|---|---|---|
| C11-20 - Body ground | Ignition switch ON | Below 1 V |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE (CENTER AIRBAG SENSOR - COMBINATION METER)**

OK

**REPLACE COMBINATION METER ASSEMBLY**

## 4 CHECK INSTRUMENT PANEL WIRE (CENTER AIRBAG SENSOR - COMBINATION METER)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the connector from the center airbag sensor
(d) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

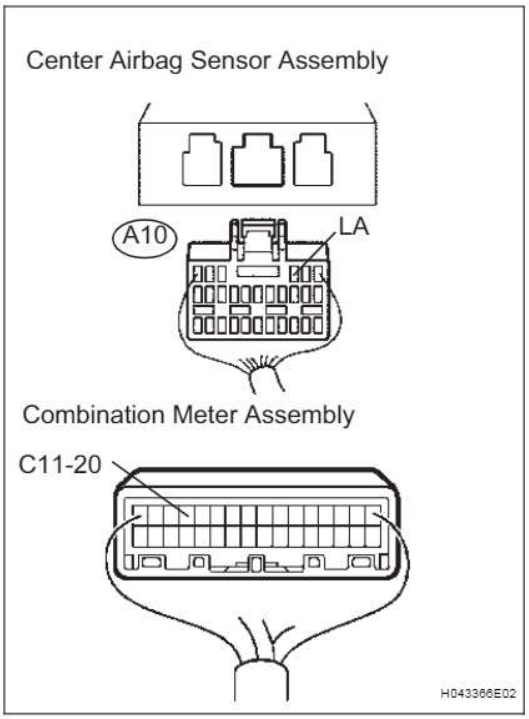
| Tester Connection | Specified Condition |
|---|---|
| A10-3 (LA) - Body ground | 1 MΩ or higher |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

| 5 | CHECK INSTRUMENT PANEL WIRE (CENTER AIRBAG SENSOR - COMBINATION METER) |
|---|---|

RS




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A10-3 (LA) - C11-20 | Below 1 Ω |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE (CENTER AIRBAG SENSOR - COMBINATION METER)

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

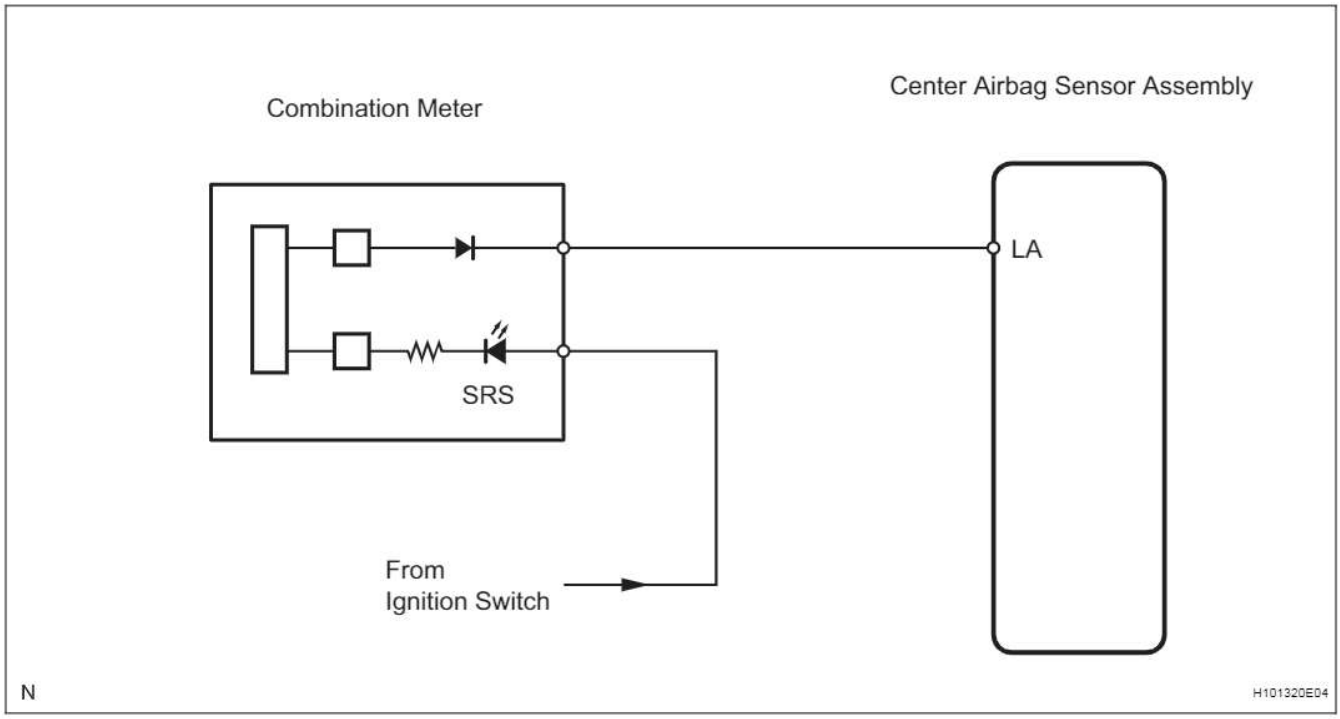
# SRS Warning Light does not Come ON

## DESCRIPTION

The SRS warning light is located on the combination meter.
When the SRS is normal, the SRS warning light comes on for approximately 6 seconds after the ignition switch is turned from the LOCK position to the ON position, and then goes off automatically.
If there is a malfunction in the SRS, the SRS warning light comes on to inform the driver of a problem.
When terminals TC and CG of the DLC3 are connected, the DTC is displayed by blinking the SRS warning light.

RS

## WIRING DIAGRAM




## INSPECTION PROCEDURE

| 1 | CHECK SOURCE VOLTAGE |
|---|---|

(a) Measure the voltage of the battery.

**Standard voltage**

| Tester Connection | Specified Condition |
|---|---|
| Positive terminal - Negative terminal | 11 to 14 V |

NG → REPAIR OR REPLACE CHARGING SYSTEM AND BATTERY

OK

RS

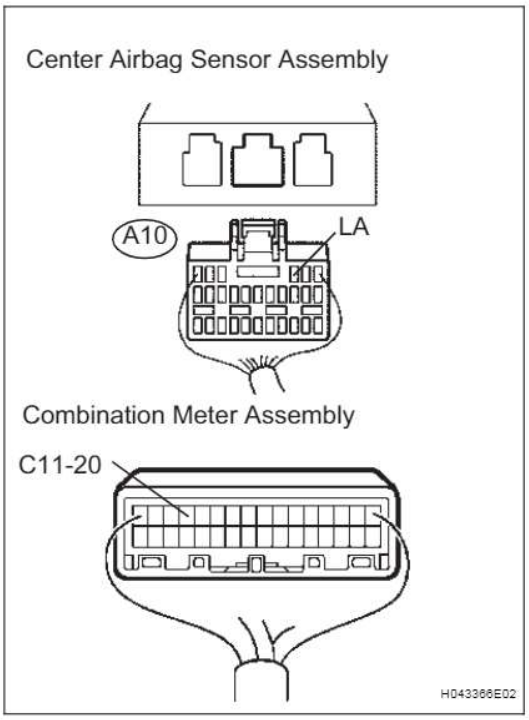
| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|

(a) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(b) Disconnect the connector from the center airbag sensor.
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON.
(e) Check that the SRS warning light on the combination meter comes on.
**OK:**
**SRS warning light comes on.**

OK → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG

| 3 | CHECK WIRE HARNESS (COMBINATION METER - CENTER AIRBAG SENSOR) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the connector from the center airbag sensor.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON.
(f) Check that SRS warning light on the combination meter comes on.
**OK:**
**SRS warning light comes on.**

NG → **REPAIR OR REPLACE COMBINATION METER OR WIRE HARNESS (COMBINATION METER - BATTERY)**

OK

**REPAIR OR REPLACE HARNESS (CENTER AIRBAG SENSOR - COMBINATION METER)**

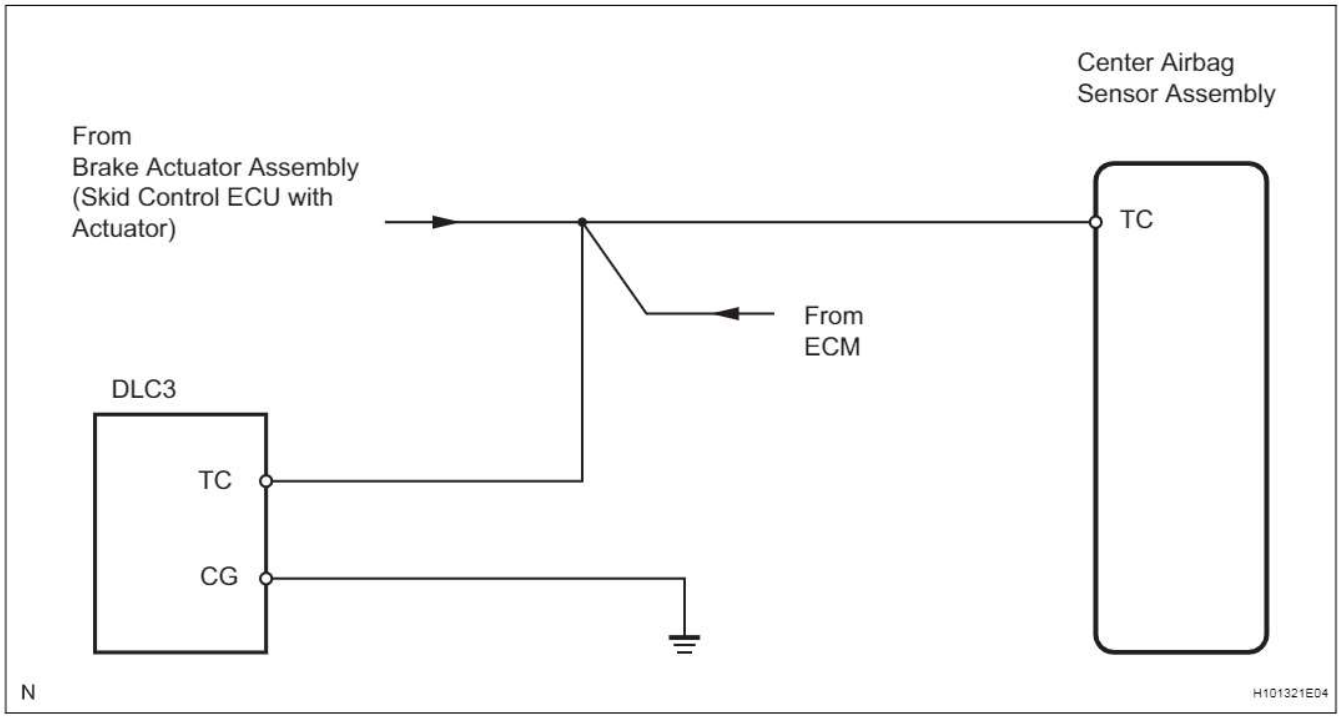
# TC and CG Terminal Circuit

## DESCRIPTION

DTC output mode is set by connecting terminal TC and CG of the DLC3. The DTCs are displayed by blinking the SRS warning light.



## WIRING DIAGRAM

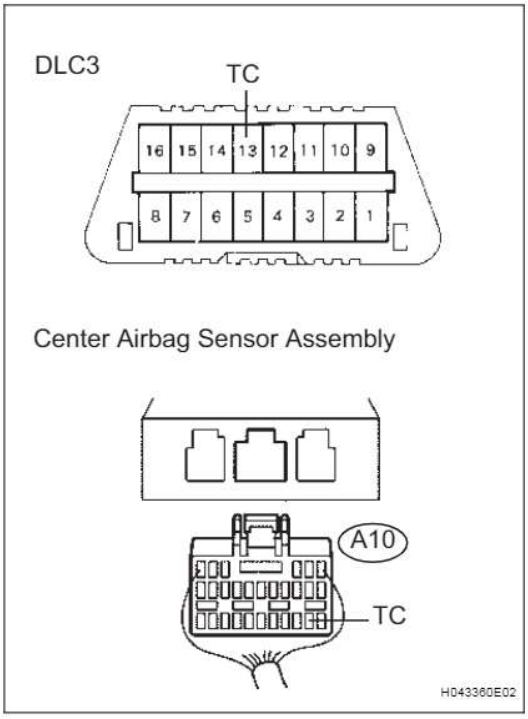



HINT:
When each warning light stays blinking, a ground short in the wiring of terminal TC of the DLC3 or an internal ground short in each ECU is suspected.

RS

## INSPECTION PROCEDURE

### 1 CHECK WIRE HARNESS (DLC3 - CENTER AIRBAG SENSOR)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the center airbag sensor connector.
(c) Measure the resistance according to the value(s) in the table below.

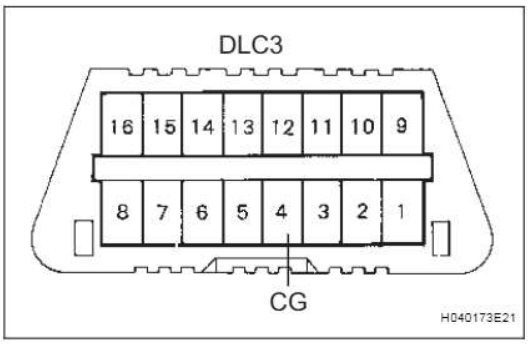
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| DLC3 (TC) - A10-19 (TC) | Below 1 Ω |

NG → **REPAIR OR REPLACE WIRE HARNESS (TC OF DLC3 - TC OF CENTER AIRBAG SENSOR)**

OK

### 2 CHECK WIRE HARNESS (CG OF DLC3 - BODY GROUND)




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

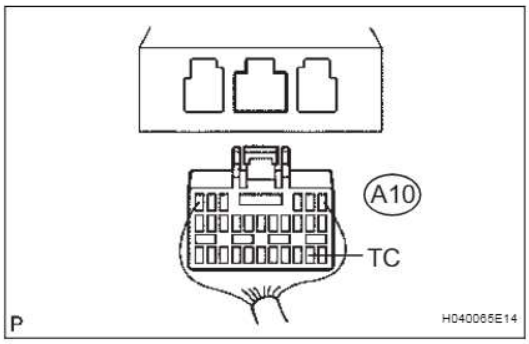
**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| DLC3 (TC) - Body ground | Below 1 Ω |

OK → **REPAIR OR REPLACE WIRE HARNESS (CG OF DLC3 - BODY GROUND)**

NG

| 3 | CHECK WIRE HARNESS (TC OF CENTER AIRBAG SENSOR - BODY GROUND) |
|---|---|




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

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A10-19 (TC) - Body ground | 1 MΩ or higher |

RS

NG → REPAIR OR REPLACE WIRE HARNESS AND EACH ECU

OK

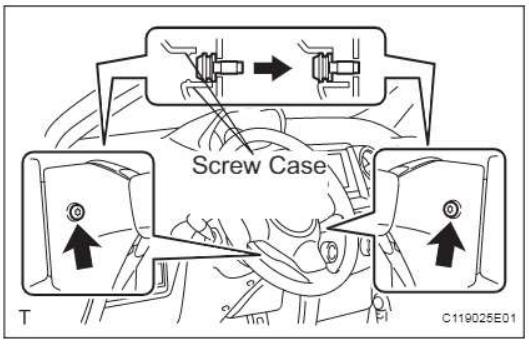
REPLACE CENTER AIRBAG SENSOR ASSEMBLY

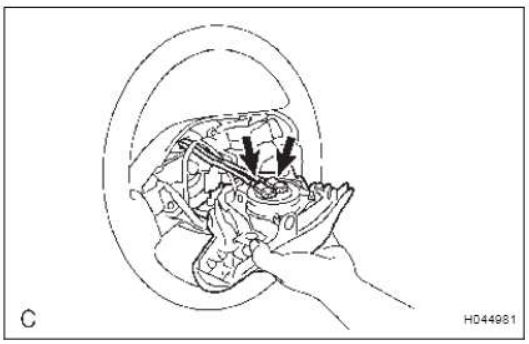
# REMOVAL

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**

2. **REMOVE STEERING PAD ASSEMBLY**
   (a) Straighten the front wheels.
   (b) Using a T30 "torx" socket, loosen the 2 screws until the groove along each screw circumference catches on the screw case.

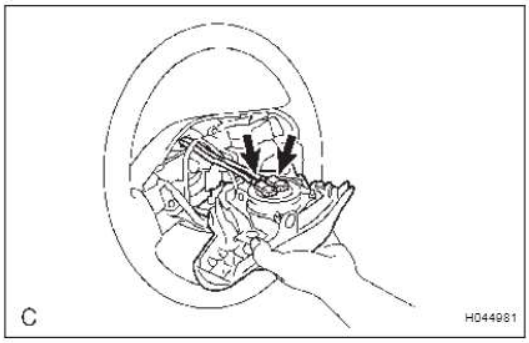



   (c) Pull out the steering pad from the steering wheel and support the steering pad with one hand as shown in the illustration.
   **NOTICE:**
   **When removing the steering pad, do not pull the airbag wire harness.**
   (d) Using a screwdriver, disconnect the 2 airbag connectors.
   **CAUTION:**
   **When handling the airbag connector, do not damage the airbag wire harness.**
   (e) Disconnect the horn connector and remove the steering pad.

# INSTALLATION

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**




1. **INSTALL STEERING PAD ASSEMBLY**
   (a) Support the steering pad with one hand as shown in the illustration.
   (b) Connect the 2 airbag connectors.
   **NOTICE:**
   **When handling the airbag connector, do not damage the airbag wire harness.**
   (c) Connect the horn connector.
   (d) Install the steering pad after confirming that the circumference grooves of the screws are caught on the screw case.
   (e) Using a T30 "torx" socket, install the 2 screws.
   **Torque: 8.8 N*m (90 kgf*cm, 78 in.*lbf)**

2. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

3. **INSPECT STEERING PAD ASSEMBLY**
   (a) Check for cuts, cracks or discoloration on the steering pad outer surface and in the grooved portion.
   (b) Check that the horn sounds.

4. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **CAUTION:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

5. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-28).

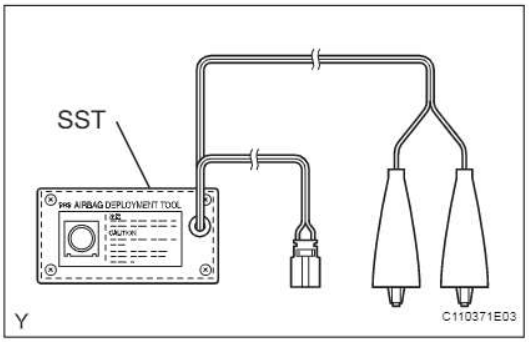
RS

# DISPOSAL

HINT:
When scrapping a vehicle equipped with an SRS or disposing of the steering pad, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

**CAUTION:**

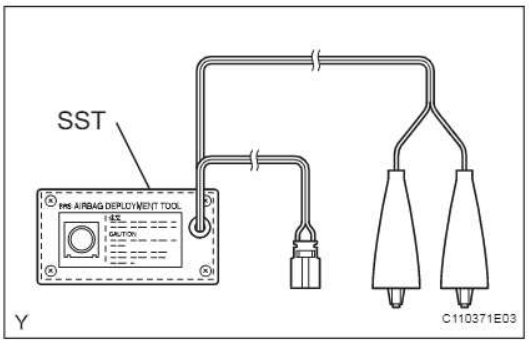
- **Never dispose of a steering pad with an unactivated airbag.**
- **The airbag produces a loud, exploding sound when it activates. Perform the operation where it will not be a nuisance to people nearby.**
- **When activating the airbag, always use the specified SST (SRS airbag deployment tool).**
- **Perform procedures in a place away from electrical interference.**
- **When activating the airbag, stand at least 10 m (33 ft.) away from the steering pad.**
- **The steering pad becomes very hot when the airbag is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a steering pad with a deployed airbag.**
- **Do not apply water to a steering pad with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

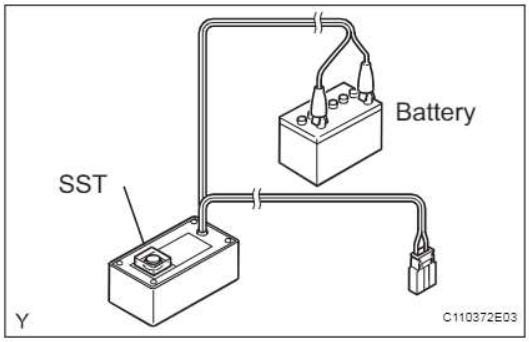



1. **DISPOSE OF STEERING PAD ASSEMBLY TOGETHER WITH VEHICLE**

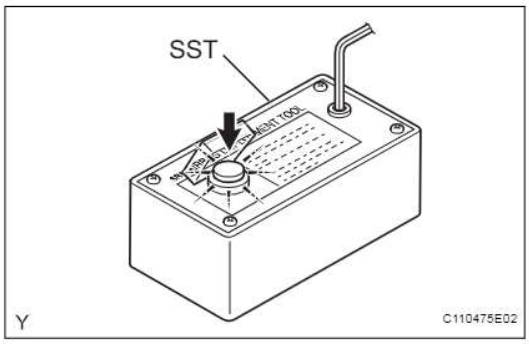
   HINT:
   Prepare a battery as the power source to deploy the airbag.

   (a) Check if SST is functioning properly.
   **SST 09082-00700**





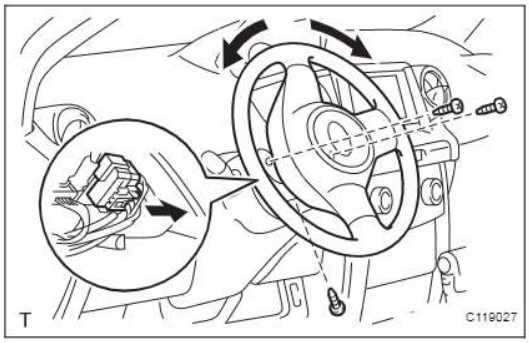

(1) Connect the SST's red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
HINT:
The yellow connector will be used to connect to another SST in a later step.



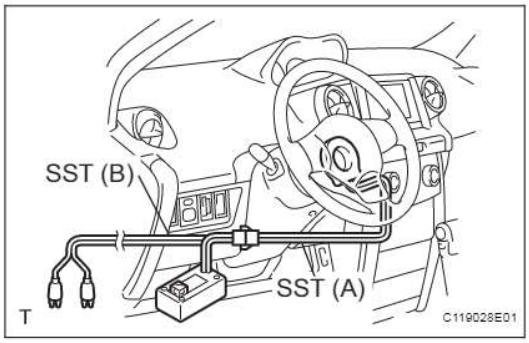

(2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.
**CAUTION:**
**If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.**
(3) Disconnect SST from the battery.

(b) Follow the "Precaution" (see page RS-1).

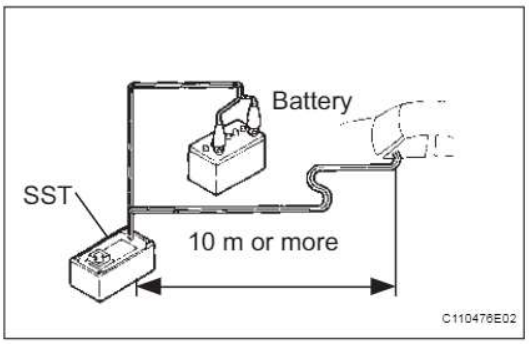
(c) Disconnect the cable from the negative (-) battery terminal.
**CAUTION:**
**Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**




(d) Remove the steering column cover lower.
(1) Turn the steering wheel to the right and left as necessary to remove the 2 screws.
(2) Remove the screw and cover lower.




(e) Install SST.
**CAUTION:**
**Check that there is no free play in the steering wheel and steering pad.**
(1) Disconnect the yellow airbag connector from the spiral cable.
**NOTICE:**
**When handling the airbag connector, do not damage the airbag wire harness.**
(2) Connect SST (A) to SST (B). Then connect SST (B)'s connector to the spiral cable.
**SST 09082-00700, 09082-00780**




**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.**

(3) Move SST at least 10 m (33 ft.) away from the front side window.

(4) Maintain a small opening in the front side window for the SST wire harness. Close the remaining windows of the vehicle. Close all doors.

**NOTICE:**
**Take care not do damage the SST wire harness.**

(5) Connect the SST red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.

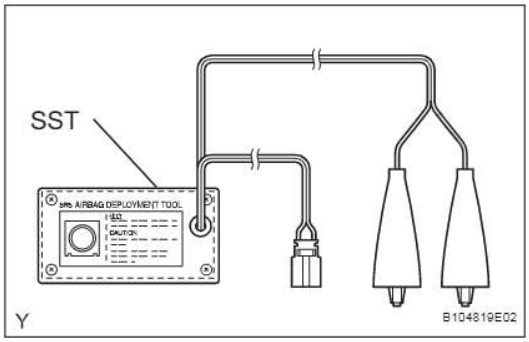
**CAUTION:**
- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The steering pad becomes extremely hot when the airbag is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a steering pad with a deployed airbag.**
- **Do not apply water to a steering pad with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

HINT:
The airbag is deployed as the SST activation switch LED illuminates.

**2. DISPOSE OF ONLY STEERING PAD ASSEMBLY**

**NOTICE:**
- **When disposing of the steering pad, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure detailed below when deploying the airbag.**

HINT:
Prepare a battery as the power source to deploy the airbag.

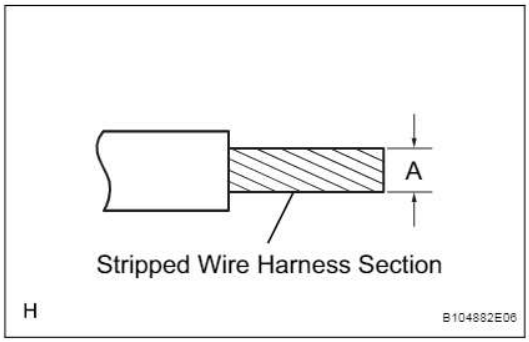



(a) Check if SST is functioning properly (see previous step).

(b) Remove the steering pad (see page RS-287).

**CAUTION:**

- **When removing the steering pad, work must be started at least 90 seconds after the ignition switch is turned OFF and after the cable is disconnected from the negative (-) battery terminal.**
- **When storing the steering pad, keep the airbag deployment side facing upward.**




(c) Using service wire harnesses for the vehicle, tie down the steering pad to a disc wheel (with tire).

**Wire harness:**

**Stripped wire harness section A:**

**1.25 $mm^2$ or more (0.0019 $in.^2$ or more)**

**NOTICE:**

**Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage the disc wheel.**

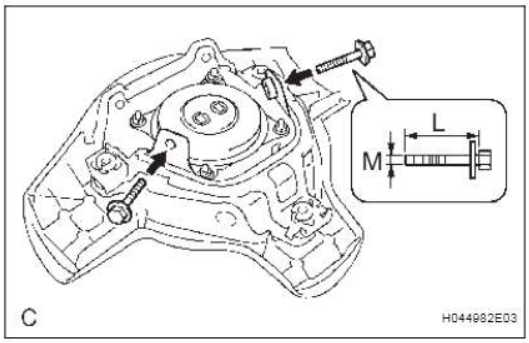
**CAUTION:**

**Do not use wire harnesses that are too thin or any other substitute items to tie down the steering pad. They may snap when the airbag deploys. Always use vehicle wire harnesses that have an area of at least 1.25 $mm^2$ or more (0.0019 $in.^2$).**

HINT:

To calculate the area of the stripped wire harness section:

Area = 3.14 x $Diameter^2/4$




(1) Install the 2 bolts with washers into the 2 bolt holes of the steering pad.

**Bolt:**

**L:**

**35.0 mm (1.378 in.)**

**M:**

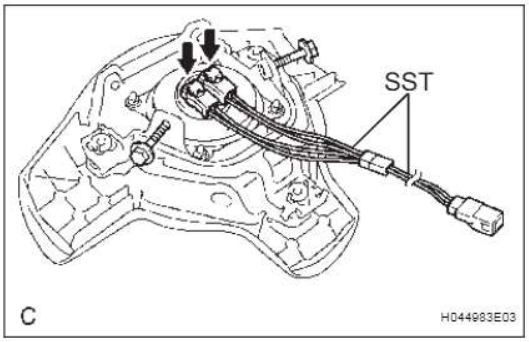
**6.0 mm (0.236 in.)**

**Pitch:**

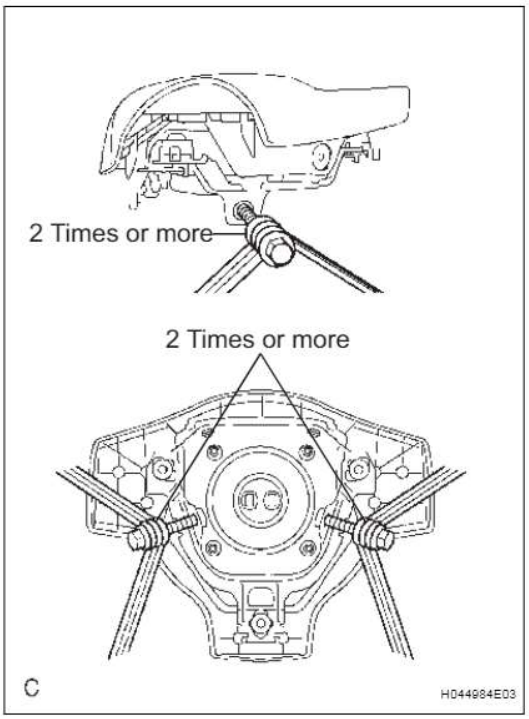
**1.0 mm (0.039 in.)**

**NOTICE:**

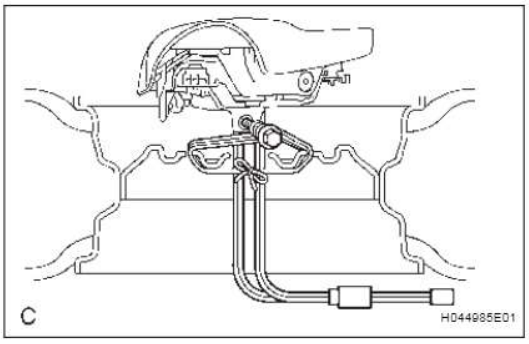
- **Tighten the bolts by hand until they become difficult to turn.**
- **Do not tighten the bolts excessively.**



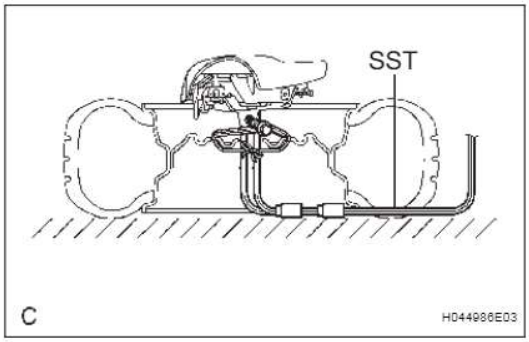

(2) After connecting SST to each other, connect them to the steering pad.
**SST 09082-00802 (09082-10801, 09082-30801)**




(3) Wind 3 wire harnesses at least twice around the bolts installed on the left and right sides of the steering pad.
**CAUTION:**
- **Tightly wind the wire harnesses around the bolts so that there is no slack.**
- **Make sure that the wire harnesses are tight. If there is slack in a wire harness, the steering pad may come loose when the airbag is deployed.**




(4) Face the airbag deployment side of the steering pad upward. Separately tie the left and right sides of the steering pad to a disc wheel through the hub nut holes. Position the SST connector so that it hangs downward through the hub hole in the disc wheel.
**CAUTION:**
- **Make sure that the wire harnesses are tight. If there is slack in a wire harness, the steering pad may come loose when the airbag is deployed.**
- **Always tie down the steering pad with the airbag deployment side facing upward.**

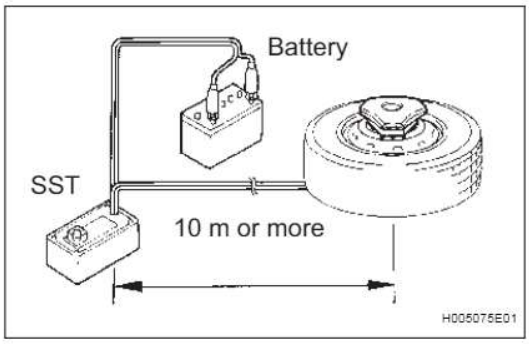


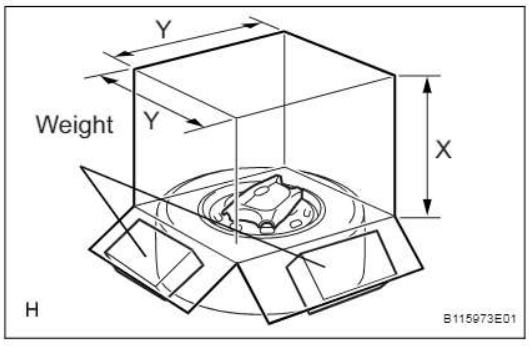

(d) Install SST.

**CAUTION:**
**Place the tire with disc wheel and steering pad on a level surface.**

(1) Connect the connector of SST.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the disc wheel.**

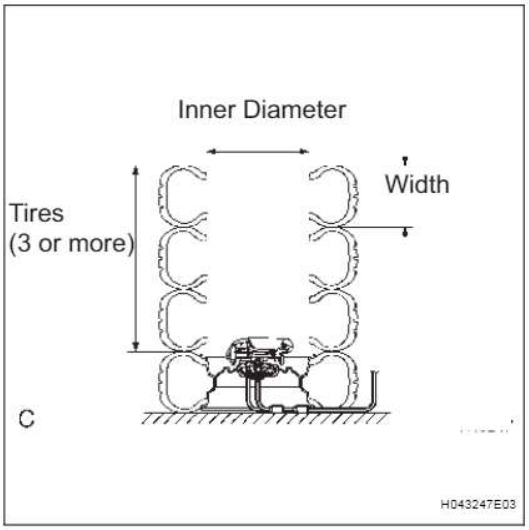
(2) Move SST at least 10 m (33 ft.) away from the steering pad.



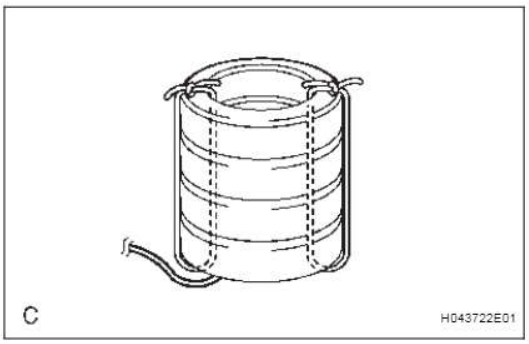




(e) Cover the steering pad with a cardboard box or tires.

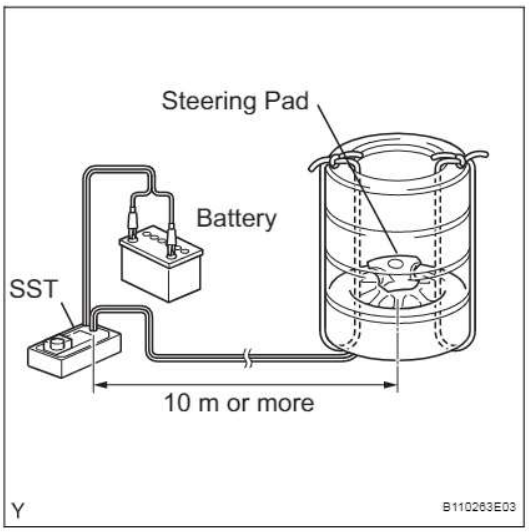
(1) Covering method using a cardboard box:
Cover the steering pad with the cardboard box and place weights of at least 19 kg (43 lb) on the cardboard box in 4 places.
**Cardboard box size:**
**X minimum = 460 mm (18.11 in.)**
**Y minimum = 650 mm (25.59 in.)**
**NOTICE:**
- **When dimension Y of the cardboard box exceeds the tire dimension, X should be the following size.**
  **X minimum = 460 mm (18.11 in.) + width of tire**
- **If using a cardboard box that is smaller than the specified size, the cardboard box will break during airbag deployment.**




(2) Covering method using tires:
Place at least 3 tires (without disc wheels) on top of the tire (with disc wheel and steering pad).
**Tire size:**
**Width minimum:**
**185 mm (7.28 in.)**
**Inner diameter minimum:**
**360 mm (14.17 in.)**
**CAUTION:**
**Do not use tires with disc wheels to cover the tire (with disc wheel and steering pad).**
**NOTICE:**
- **Use tires that you are planning to throw away, as the airbag deployment may damage the tires.**
- **Do not place the SST connector under the tire as the connector may be damaged.**




(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harnesses are tight. If there is slack in a wire harness, the tires may come loose when the airbag is deployed.**




(f) Deploy the airbag.
(1) Connect the SST red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
(2) Check that no one is within a 10 m (33 ft.) radius of the steering pad.
(3) Press the SST activation switch and deploy the airbag.
**CAUTION:**
**When deploying the airbag, make sure that no one is near the tires.**
HINT:
The airbag is deployed as the SST activation switch LED illuminates.




(g) Dispose of the steering pad.

**CAUTION:**

- **The steering pad becomes extremely hot when the airbag is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Do not apply water to a steering pad with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

(1) Remove the steering pad from the disc wheel.

(2) Place the steering pad in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

| DTC | B0101/14 | Open in Driver Side Squib Circuit |
|---|---|---|

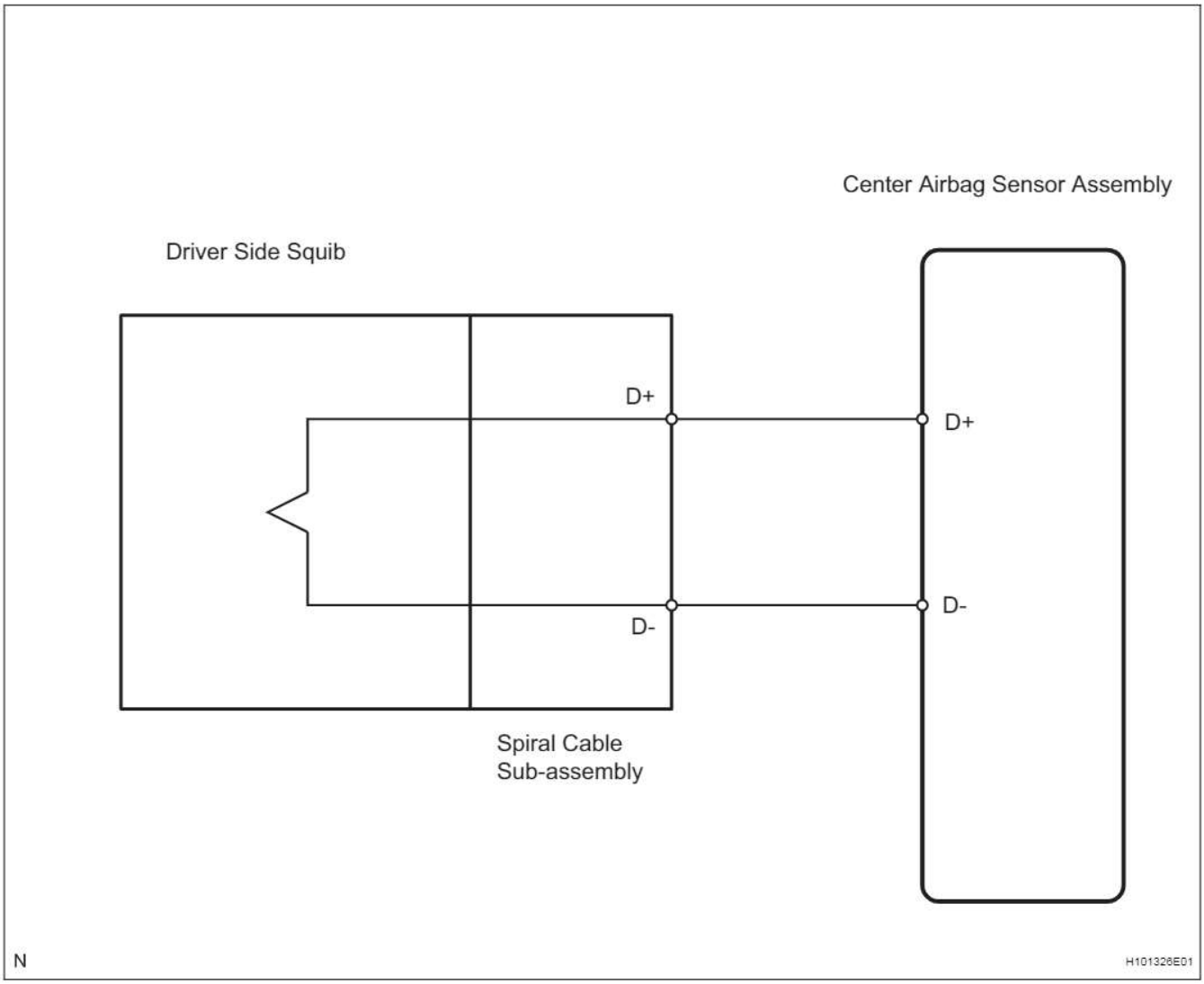
## DESCRIPTION

The driver side squib circuit consists of the center airbag sensor, the spiral cable and the steering pad. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0101/14 is recorded when an open is detected in the driver side squib circuit.



| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0101/14 | • Open in driver side squib circuit<br>• Driver side squib malfunction<br>• Spiral cable malfunction<br>• Center airbag sensor malfunction | • Steering pad (driver side squib)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |

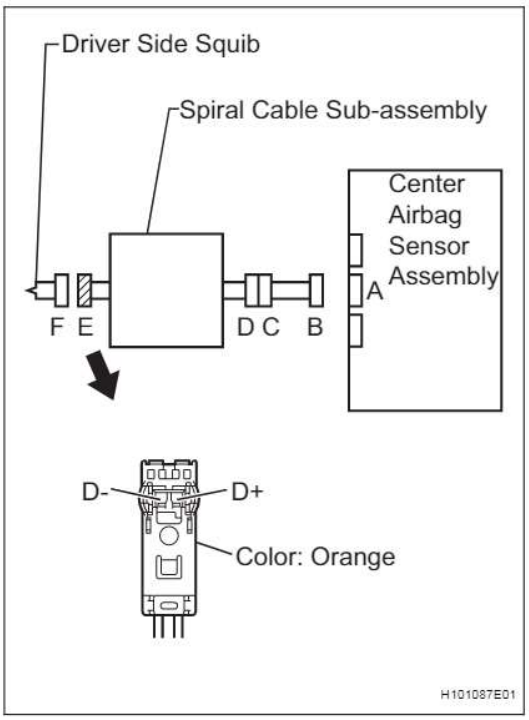
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR ASSEMBLY - STEERING PAD ASSEMBLY) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and steering pad.
(d) Measure the resistance according to the value(s) in the table below.

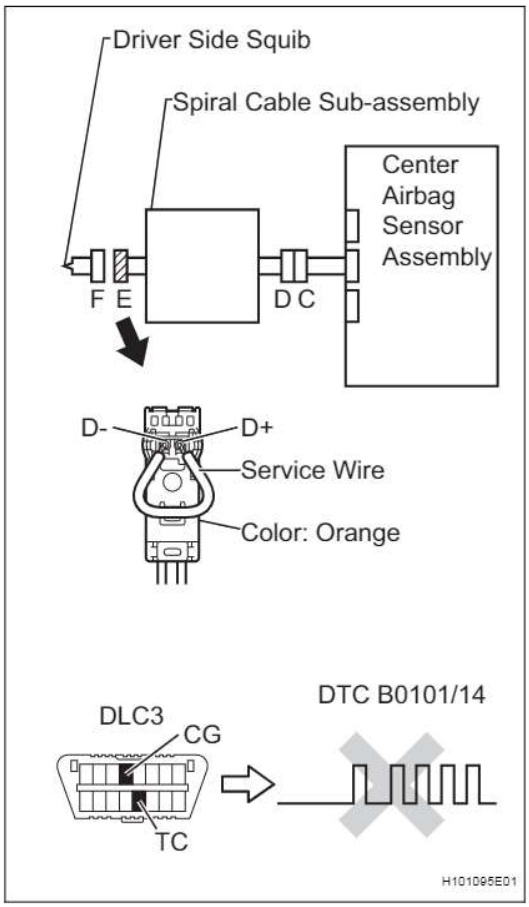
**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D+ - D- | Below 1 Ω |

NG → **Go to step 4**

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect D+ and D- of the connector "E".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

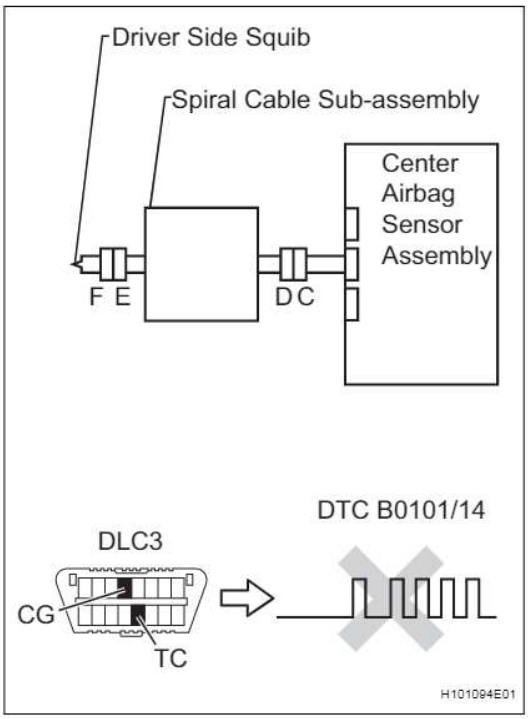
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check the DTC (see page RS-30).
**OK:**
**DTC B0101/14 is not output.**
HINT:
Codes other than code B0101/14 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "E".
(d) Connect the steering pad connectors.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0101/14 is not output.**

HINT:

Codes other than code B0101/14 may be output at this time, but they are not relevant to this check.

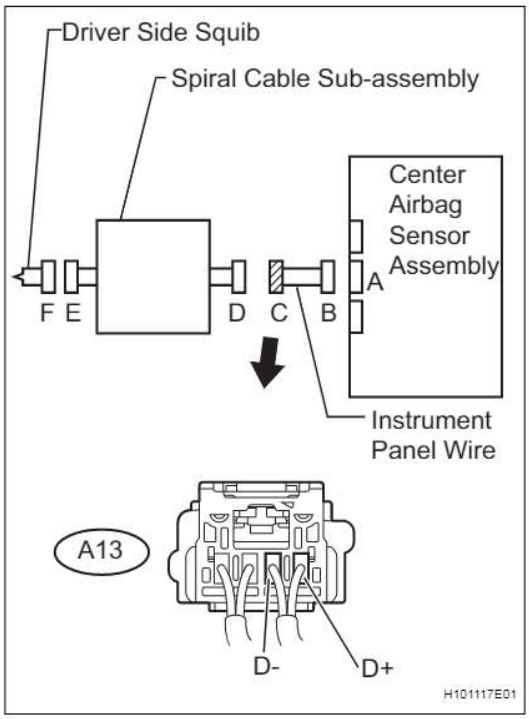
NG → **REPLACE STEERING PAD ASSEMBLY**

OK

**USE SIMULATION METHOD TO CHECK**

RS

## 4 CHECK INSTRUMENT PANEL WIRE




(a) Disconnect the instrument panel wire connector from the spiral cable.

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

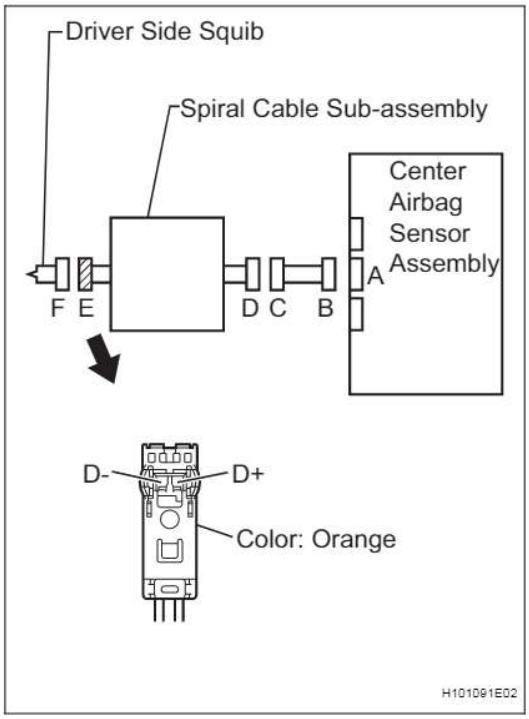
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A13-1 (D+) - A13-2 (D-) | Below 1 Ω |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 5 CHECK SPIRAL CABLE SUB-ASSEMBLY




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

**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D+ - D- | Below 1 Ω |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

RS

# INSPECTION

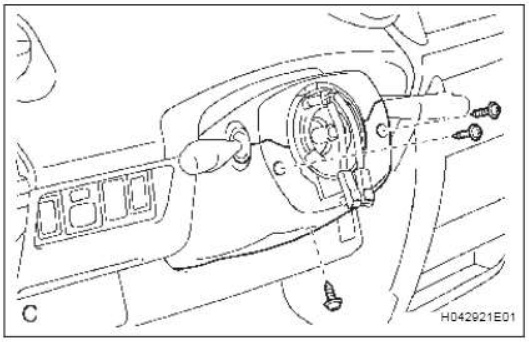
1. **INSPECT SPIRAL CABLE SUB-ASSEMBLY**
   (a) Check that there are no scratches or cracks on its connector, and that the cable does not have cracks, dents or chipping.

RS

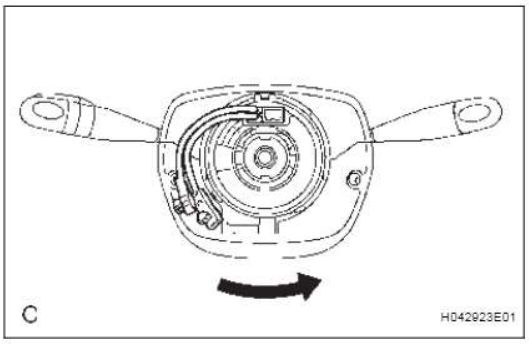
# INSTALLATION

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

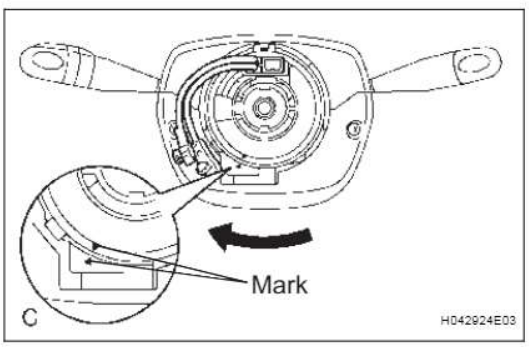
1. **INSTALL SPIRAL CABLE SUB-ASSEMBLY**
   (a) Check that the front wheels are facing straight ahead.
   (b) Set the turn signal switch to the neutral position.
   **NOTICE:**
   **Make sure that the turn signal switch is in the neutral position, as the pin of the turn signal switch may be snapped.**
   (c) Install the spiral cable.
   **NOTICE:**
   **When replacing the spiral cable with a new one, remove the lock pin before installing the steering wheel.**
   (d) Connect the connector to the spiral cable.
   **NOTICE:**
   **When handling the airbag connector, do not damage the airbag wire harness.**




2. **INSTALL STEERING COLUMN COVER**
   (a) Install the steering column covers with the 3 screws.




3. **POSITION SPIRAL CABLE**
   (a) Slowly rotate the spiral cable counterclockwise by hand until it feels firm.
   **NOTICE:**
   **Do not use the airbag wire harness to turn the spiral cable.**




   (b) Rotate the spiral cable clockwise approximately 2.5 turns to align the marks.
   **NOTICE:**
   **Do not use the airbag wire harness to turn the spiral cable.**
   HINT:
   The spiral cable will rotate approximately 2.5 turns to the left and right from the center.

4. **INSTALL STEERING WHEEL ASSEMBLY**

5. **INSTALL STEERING PAD ASSEMBLY (See page RS-288)**

6. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

7. **INSPECT STEERING PAD ASSEMBLY (See page RS-289)**

8. **PERFORM INITIALIZATION**
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**
   (a) Perform initialization (see pageIN-23).

9. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-28).

10. **INSPECT STEERING WHEEL POSITION**

RS

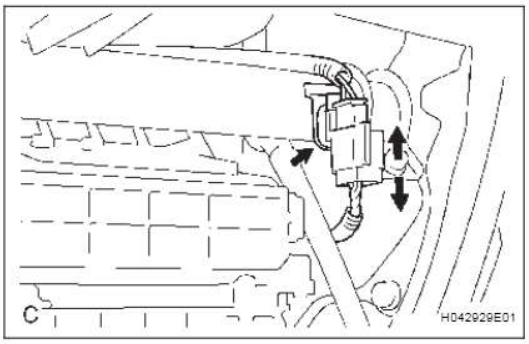
# REMOVAL

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**

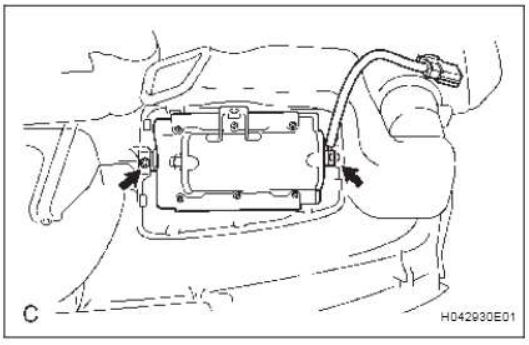
2. **REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY (See page IP-6)**

3. **DISCONNECT PASSENGER AIRBAG CONNECTOR**
   (a) Disconnect the clamp.
   (b) Disconnect the front passenger airbag connector.
   **NOTICE:**
   **When handling the airbag connector, take care not to damage the airbag wire harness.**

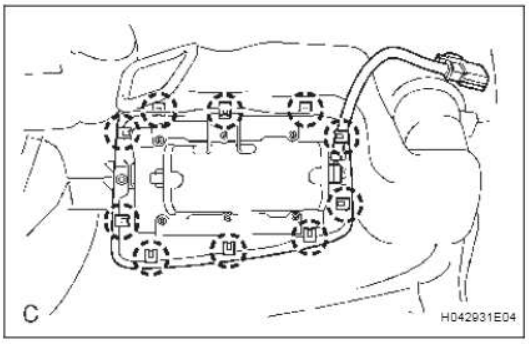



4. **REMOVE INSTRUMENT PANEL SUB-ASSEMBLY**
   (a) Remove the instrument panel (see pageIP-4).

5. **REMOVE FRONT PASSENGER AIRBAG ASSEMBLY**
   (a) Remove the 2 nuts.

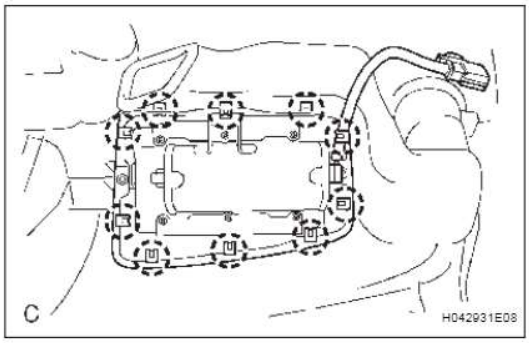



   (b) Detach the 10 claws and remove the front passenger airbag.



# INSTALLATION

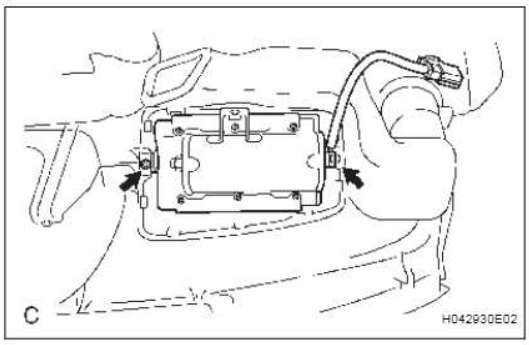
**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-28).**




**1. INSTALL FRONT PASSENGER AIRBAG ASSEMBLY**

(a) Attach the 10 claws to install the front passenger airbag.

(b) Install the 2 nuts.




**2. INSTALL INSTRUMENT PANEL SUB-ASSEMBLY**

(a) Install the instrument panel (see pageIP-10).

**NOTICE:**
**When handling the airbag connector, do not damage the airbag wire harness.**

**3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

**4. PERFORM INITIALIZATION**

(a) Perform initialization (see pageIN-23).

**NOTICE:**
**Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

**5. CHECK SRS WARNING LIGHT**

(a) Check the SRS warning light (see page RS-28).

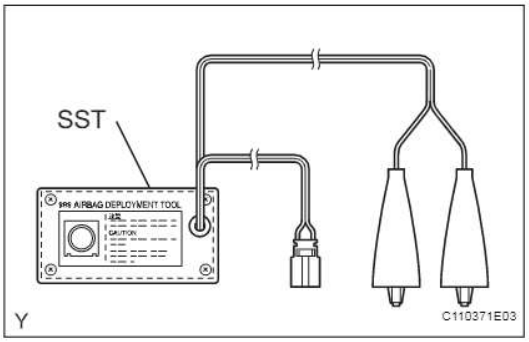
RS

# DISPOSAL

HINT:
When scrapping a vehicle equipped with an SRS or disposing of the front passenger airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

**CAUTION:**

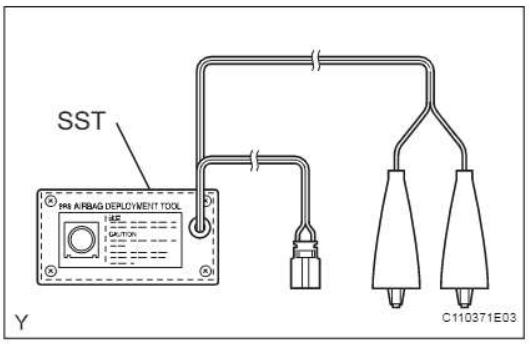
- **Never dispose of a front passenger airbag with an unactivated airbag.**
- **The airbag produces a loud, exploding sound when it activates. Perform the operation where it will not be a nuisance to people nearby.**
- **When activating the airbag, always use the specified SST (SRS airbag deployment tool).**
- **Perform procedures in a place away from electrical interference.**
- **When activating the airbag, stand at least 10 m (33 ft.) away from the airbag.**
- **The airbag becomes very hot when it is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**



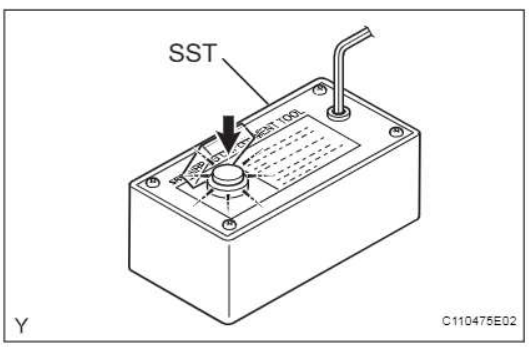

**1. DISPOSE OF FRONT PASSENGER AIRBAG ASSEMBLY TOGETHER WITH VEHICLE**

HINT:
Prepare a battery as the power source to deploy the airbag.

(a) Check if SST is functioning properly.
**SST 09082-00700**




(1) Connect the SST's red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
HINT:
The yellow connector will be used to connect to another SST in a later step.



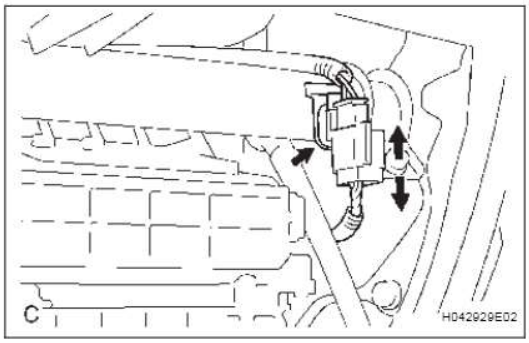

(2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.
**CAUTION:**
**If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.**

(3) Disconnect SST from the battery.

(b) Follow the "Precaution" (see page RS-1).

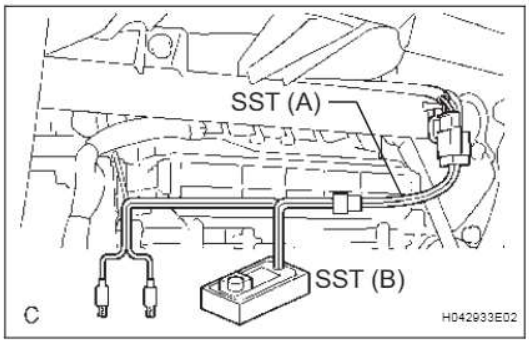
(c) Disconnect the cable from the negative (-) battery terminal.
**CAUTION:**
**Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**

(d) Remove the glove compartment door (see page IP-4).

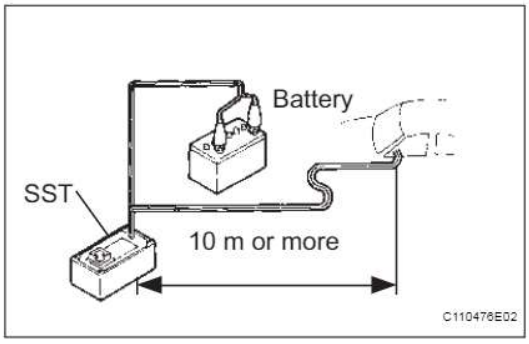



(e) Install SST.

(1) Disconnect the front passenger airbag connector.
**NOTICE:**
**When handling the airbag connector, do not damage the airbag wire harness.**




(2) Connect SST (A) to SST (B). Then connect SST (B)'s connector to the cable.
**SST 09082-00700, 09082-00780**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.**




(3) Move SST at least 10 m (33 ft.) away from the front side window.

(4) Maintain a small opening in the front side window for the SST wire harness. Close the remaining windows of the vehicle. Close all doors.
**NOTICE:**
**Take care not to damage the SST wire harness.**

(5) Connect the SST red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.

(f) Deploy the airbag.

(1) Check that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.
**CAUTION:**
- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The airbag becomes extremely hot when it is deployed. Do not touch it for at least 30 minutes after deployment.**

- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

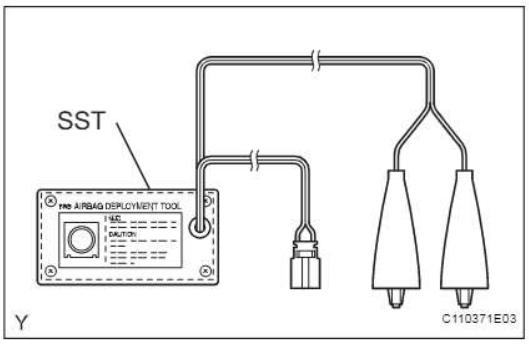
HINT:
The airbag is deployed as the SST activation switch LED illuminates.

**2. DISPOSE OF ONLY FRONT PASSENGER AIRBAG ASSEMBLY**

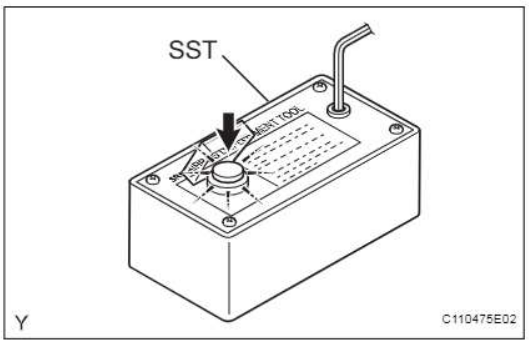
**NOTICE:**

- **When disposing of the airbag, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure detailed below when deploying the airbag.**

HINT:
Prepare a battery as the power source to deploy the airbag.



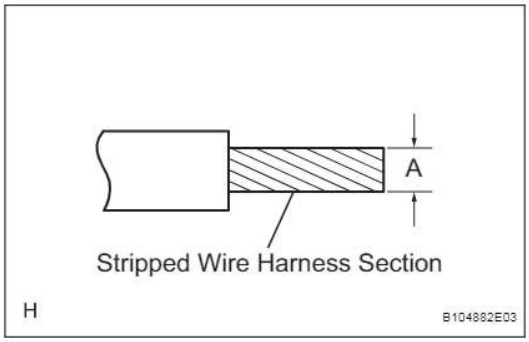

(a) Check if SST is functioning properly.
**SST 09082-00700**
(1) Connect the SST red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
HINT:
The yellow connector will be used to connect to another SST in a later step.




(2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.
**CAUTION:**
**If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.**
(3) Disconnect SST from the battery.

(b) Remove the front passenger airbag (see page RS-301).
**CAUTION:**

- **When removing the airbag, work must be started at least 90 seconds after the ignition switch is turned OFF and after the cable is disconnected from the negative (-) battery terminal.**
- **When storing the airbag, keep the airbag deployment side facing upward.**




(c) Using service wire harnesses for the vehicle, tie down the airbag to a tire.

**Wire harness:**

**Stripped wire harness section A:**

**1.25 mm$^2$ or more (0.0019 in.$^2$ or more)**

**NOTICE:**

**Use a tire that you are planning to throw away, as the airbag deployment may damage the tire.**

**CAUTION:**

**Do not use wire harnesses that are too thin or any other substitute items to tie down the front passenger airbag assembly. They may snap when the airbag deploys. Always use vehicle wire harnesses that have an area of at least 1.25 mm$^2$ (0.0019 in.$^2$).**

HINT:

To calculate the area of the stripped wire harness section:

Area = 3.14 x Diameter$^2$ /4

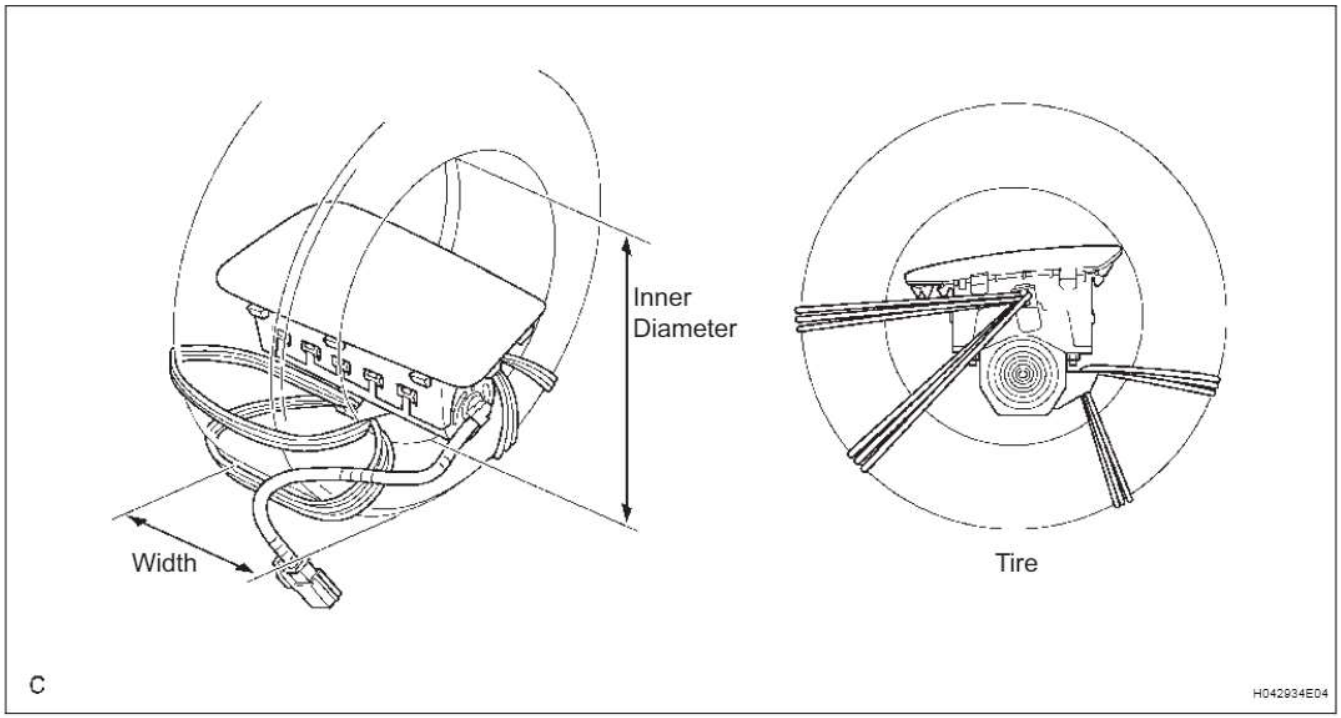
(1) Position the airbag inside the tire so that the brackets contact the tire.

**Tire size:**

**Width minimum: 185 mm (7.28 in.)**

**Inner diameter minimum: 360 mm (14.17 in.)**

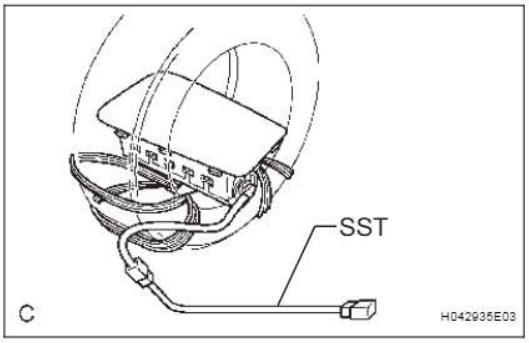
(2) Wind 3 wire harnesses at least twice around the airbag brackets and tire.



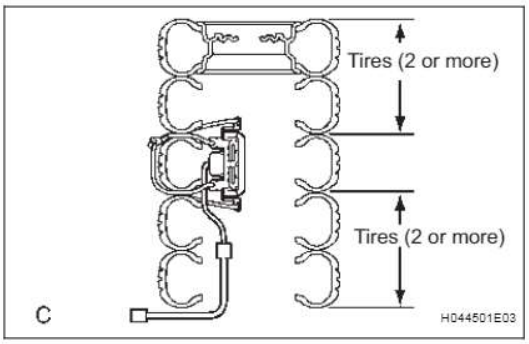

**CAUTION:**

- **Tightly wind the wire harnesses around the brackets so that there is no slack.**

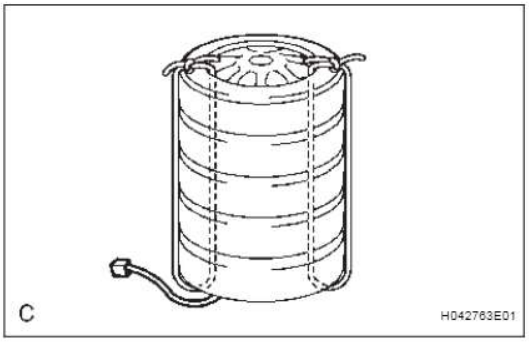
- **Make sure that the wire harnesses are tight. If there is slack in a wire harness, the airbag may come loose when it is deployed.**
- **Always tie down the airbag with the airbag deployment side facing inside the tire.**



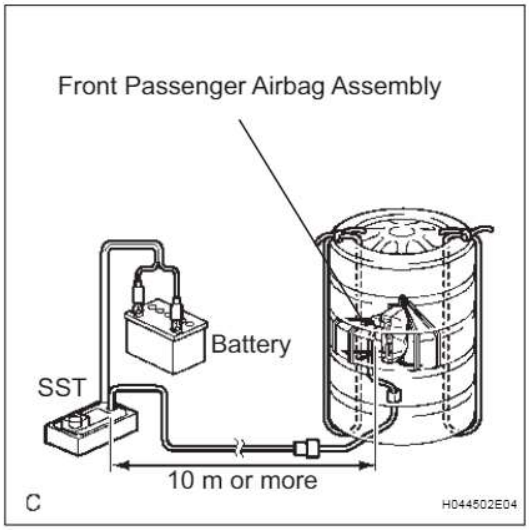

(d) Install SST.
(1) Connect the SST connector to the airbag.
**SST 09082-00780**




(e) Place the tires.
(1) Place at least 2 tires under the tire to which the airbag is tied.
(2) Place at least 2 tires on top of the tire to which the airbag is tied. The top tire should have a disc wheel installed.
**NOTICE:**
- **Do not place the SST connector under the tire as the connector may be damaged.**
- **Use a disc wheel that you are planning to throw away, as the airbag deployment will damage the disc wheel.**
- **Use tires that you are planning to throw away, as the airbag deployment may damage the tires.**

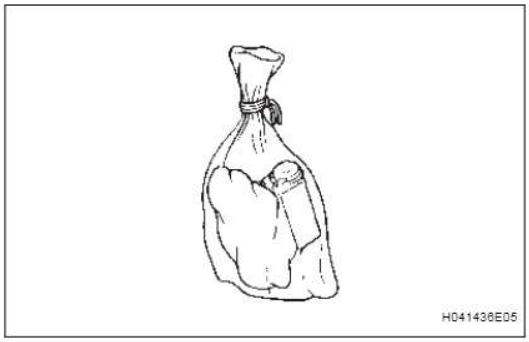



(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harnesses are tight. If there is slack in a wire harness, the tires may come loose when the airbag is deployed.**



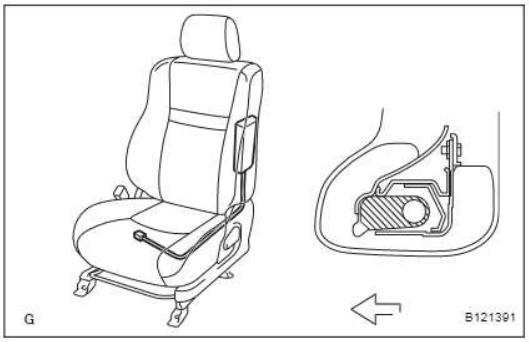

(f) Install SST.
(1) Connect the SST connector.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.**

(g) Deploy the airbag.
(1) Connect the SST red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
(2) Check that no one is within a 10 m (33 ft.) radius of the airbag.
(3) Press the SST activation switch and deploy the airbag.
**CAUTION:**
**When deploying the airbag, make sure that no one is near the tires.**
HINT:
The airbag is deployed as the SST activation switch LED illuminates.




(h) Dispose of the airbag.
**CAUTION:**
- **The airbag becomes extremely hot when it is deployed. Do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

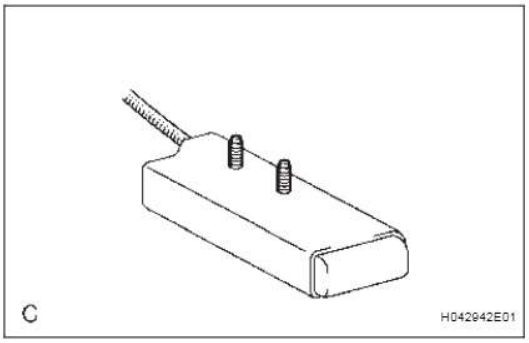
(1) Remove the airbag from the tire.
(2) Place the airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.




# FRONT SEAT SIDE AIRBAG ASSEMBLY

## ON-VEHICLE INSPECTION

1. **CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) With the front seat airbag installed on the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat assembly with a new one:
   Cuts, minute cracks or marked discoloration on the front seatback assembly around the front seat airbag assembly.
   **CAUTION:**
   **For removal and installation procedures of the front seat airbag, be sure to follow the correct procedures.**




2. **CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) With the front seat airbag assembly removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the front seat airbag with a new one:
   - Cuts, minute cracks or marked discoloration on the front seat airbag.
   - Cracks or other damage to the wire harness or connector.

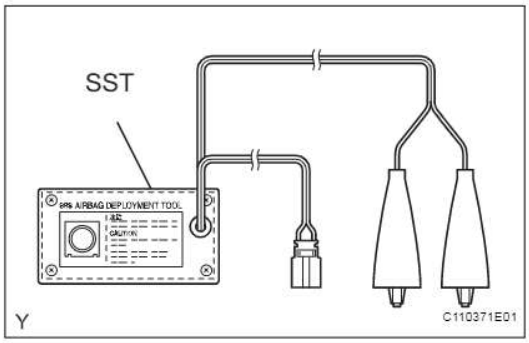
   **CAUTION:**
   **For removal and installation procedures of the front seat airbag, be sure to follow the correct procedures.**

# DISPOSAL

HINT:
When scrapping a vehicle equipped with an SRS or disposing of the front seat airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

**CAUTION:**

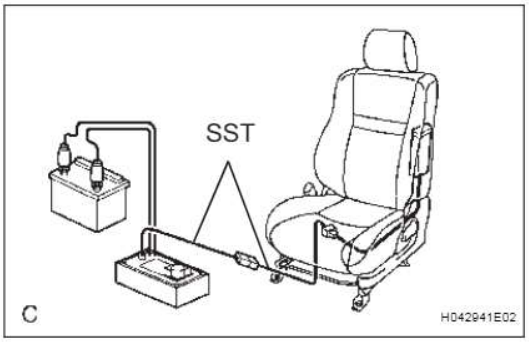
- **Never dispose of a front seat airbag assembly that has an unactivated airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool).**
- **Perform the operation in a place away from electrical noise.**
- **When deploying the airbag, perform the operation at least 10 m (33 ft.) away from the airbag assembly.**
- **The airbag becomes very hot when it is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**




1. **DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY TOGETHER WITH VEHICLE**

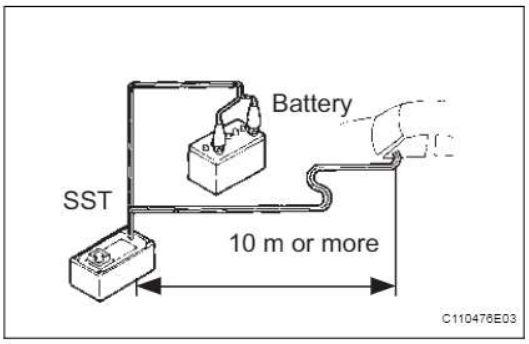
   HINT:
   Prepare a battery as the power source to deploy the airbag.

   (a) Check if SST is functioning properly (see page RS-289).
   (b) Follow the "Precaution" (see page RS-1).
   (c) Disconnect the cable from the negative (-) battery terminal. Wait at least 90 seconds after disconnecting the cable to prevent the airbag from deploying.
   (d) Remove the front seat (see page SE-3).
   HINT:
   Keep the front seat assembly in the cabin.
   (e) Install the SST.
   (1) Disconnect the yellow connector from the front seat airbag.
   **NOTICE:**
   **When handling the airbag connector, take care not to damage the airbag wire harness.**




(2) Connect the SST connector to the front seat airbag connector.
**SST 09082-00700, 09082-00750**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.**

(3) Install the front seat (see page SE-9).




(4) Move the SST at least 10 m (33 ft.) away from the vehicle front side window.

(5) Maintaining enough clearance for the SST wire harness in the front side window, close all the doors and windows of the vehicle.
**NOTICE:**
**Take care not to damage the SST wire harness.**

(6) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the battery negative (-) terminal.

(f) Deploy the airbag.

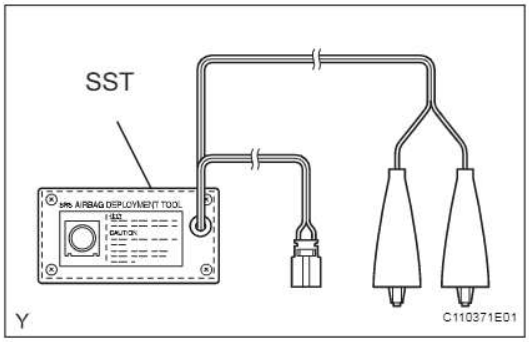
(1) Check that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.
**CAUTION:**
- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The airbag becomes very hot when it is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

HINT:
The airbag is deployed as the LED of the SST activation switch comes on.

**2. DISPOSE OF ONLY FRONT SEAT SIDE AIRBAG ASSEMBLY**
**NOTICE:**
- **When disposing of the front seat airbag, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure detailed below when deploying the airbag.**

HINT:
Prepare a battery as the power source to deploy the airbag.




(a) Check if SST is functioning properly (see page RS-289).

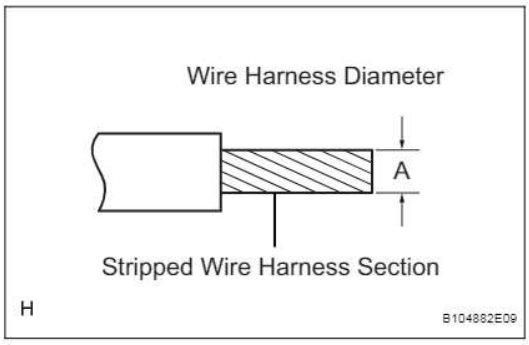
(b) Remove the front seat airbag.

(1) Remove the front seat (see page SE-3).

(2) Remove the 2 nuts and the front seat airbag from the seatback assembly.

**CAUTION:**

- **When removing the front seat airbag, work must be started at least 90 seconds after the ignition switch is turned OFF and the negative (-) terminal cable is disconnected from the battery.**
- **When storing the front seat airbag, keep the airbag deployment side facing upward.**




(c) Using a service wire harness for the vehicle, tie down the front seat airbag to the tire.

**Wire harness:**

**Stripped wire harness section**

**A:**

**1.25 $mm^2$ or more (0.0019 $in.^2$ or more)**

HINT:

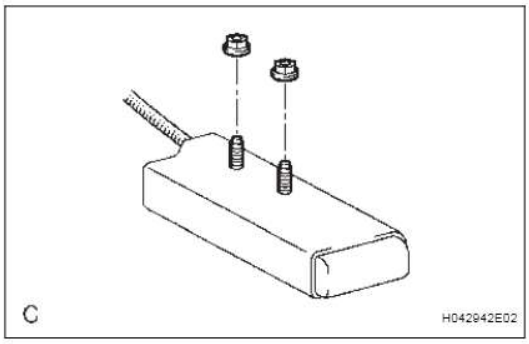
To calculate the area of the stripped wire harness section:

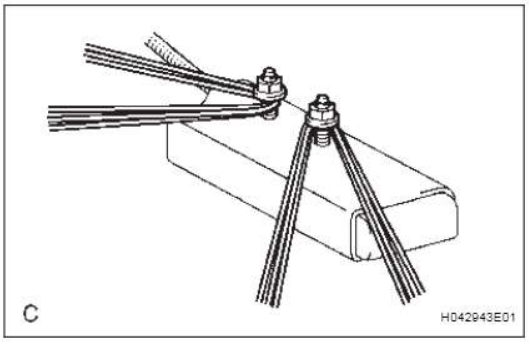
Area = 3.14 x $Diameter^2/4$

**CAUTION:**

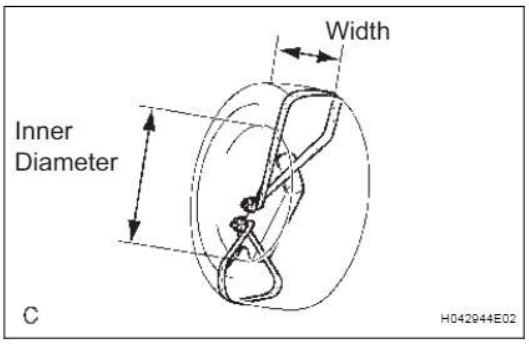
**If the wire harness is too thin or an alternative object is used to tie down the front seat airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 $mm^2$ (0.0019 $in.^2$).**

(1) Install the 2 nuts to the front seat airbag.



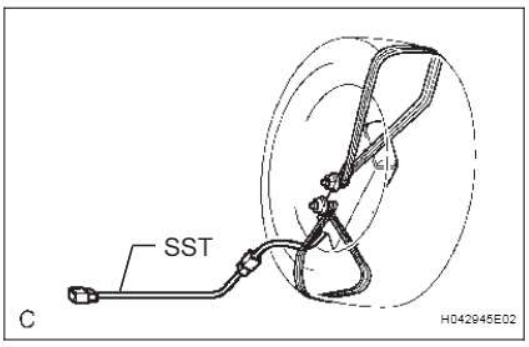



(2) Wind the wire harness around the stud bolts of the front seat airbag as shown in the illustration.

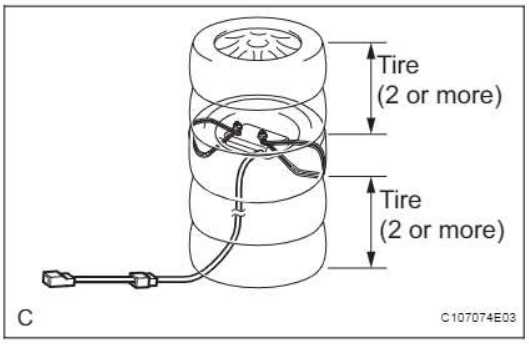



(3) Position the front seat airbag inside the tire.
**Tire size:**
**Must exceed the following dimensions**
**Width:**
**185 mm (7.28 in.)**
**Inner diameter:**
**360 mm (14.17 in.)**
**CAUTION:**
- **Make sure that the wire harness is tight. If there is slack in the wire harness, the front seat airbag may become loose due to the shock when the airbag is deployed.**
- **Always tie down the front seat airbag with the airbag deployment direction facing inside the tire.**

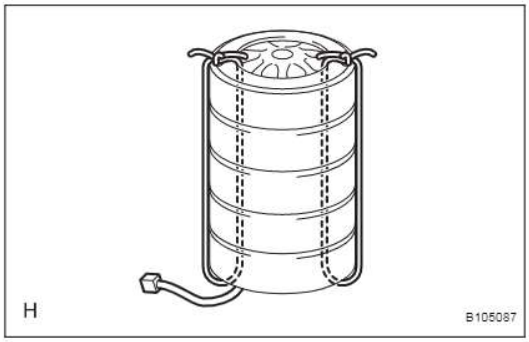
**NOTICE:**
**Use tires that you are planning to throw away, as the airbag deployment may damage the tires.**




(d) Install the SST.
(1) Connect the SST connector to the front seat airbag connector.
**SST 09082-00750**

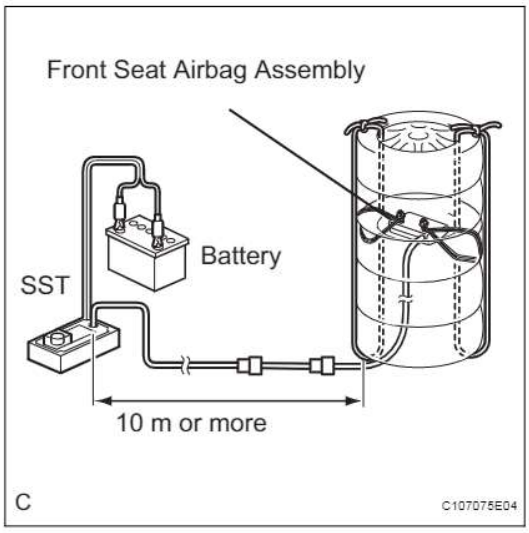



(e) Place the tires.
(1) Place at least 2 tires under the tire to which the front seat airbag is tied.
(2) Place at least 2 tires over the tire to which the front seat airbag is tied. The top tire should have a disc wheel installed.
**NOTICE:**
**Do not place the SST connector under the tire because it could be damaged.**



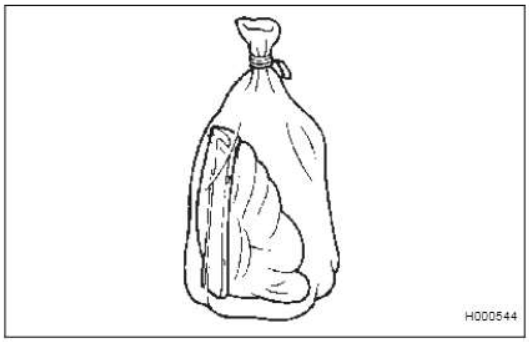

(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harness is tight. Looseness in the wire harness results in the tires coming free due to the shock when the airbag is deployed.**






(f) Install the SST.
(1) Connect the SST connector.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.**

(g) Deploy the airbag.
(1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the battery negative (-) terminal.
(2) Check that no one is within a 10 m (33 ft.) radius of the airbag.
(3) Press the SST activation switch and deploy the airbag.
**CAUTION:**
**When deploying the airbag, make sure that no one is near the tire.**
HINT:
The airbag is deployed as the LED of the SST activation switch comes on.



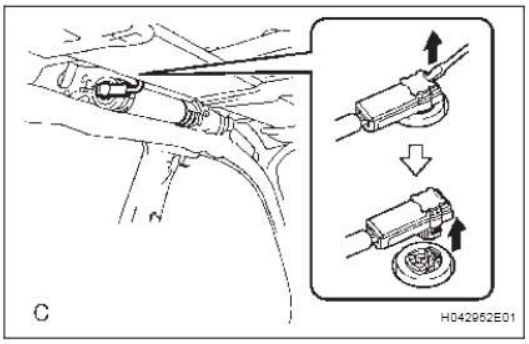

(h) Dispose of the front seat airbag assembly.
**CAUTION:**
- **The airbag becomes very hot when it is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

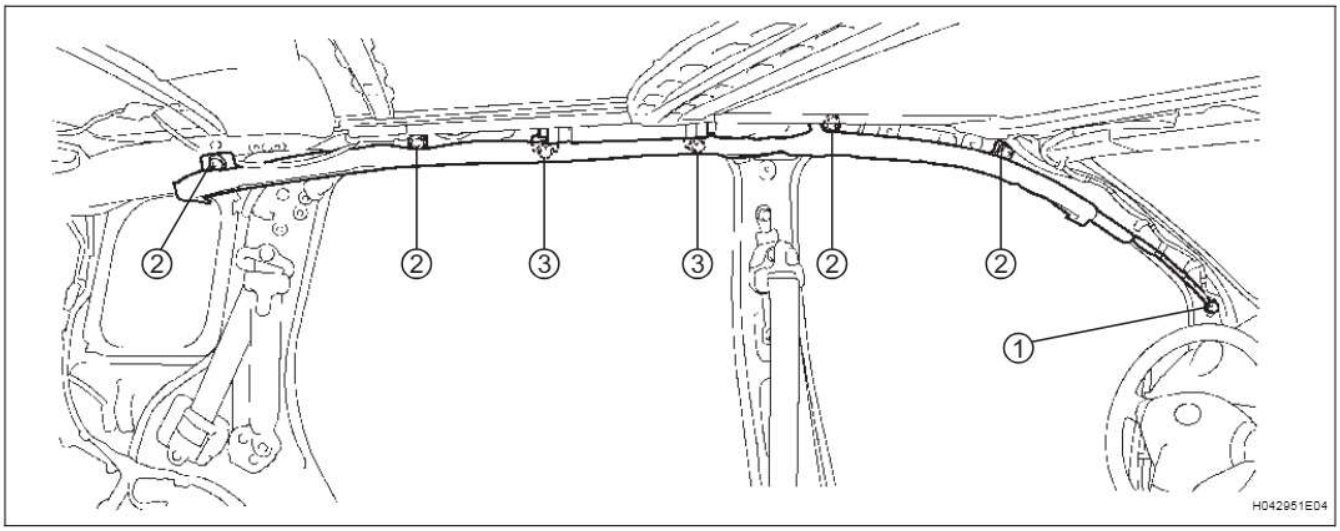
(1) Remove the front seat airbag from the tire.
(2) Place the front seat airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

# REMOVAL

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE ROOF HEADLINING ASSEMBLY**
   (a) Remove the roof headlining (see page IR-7).
3. **REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY**
   (a) Disconnect the connector.
   **NOTICE:**
   **When handling the airbag connector, take care not to damage the airbag wire harness.**
   (b) Remove the 3 bolts, 4 screws and curtain shield airbag in the order shown in the illustration.

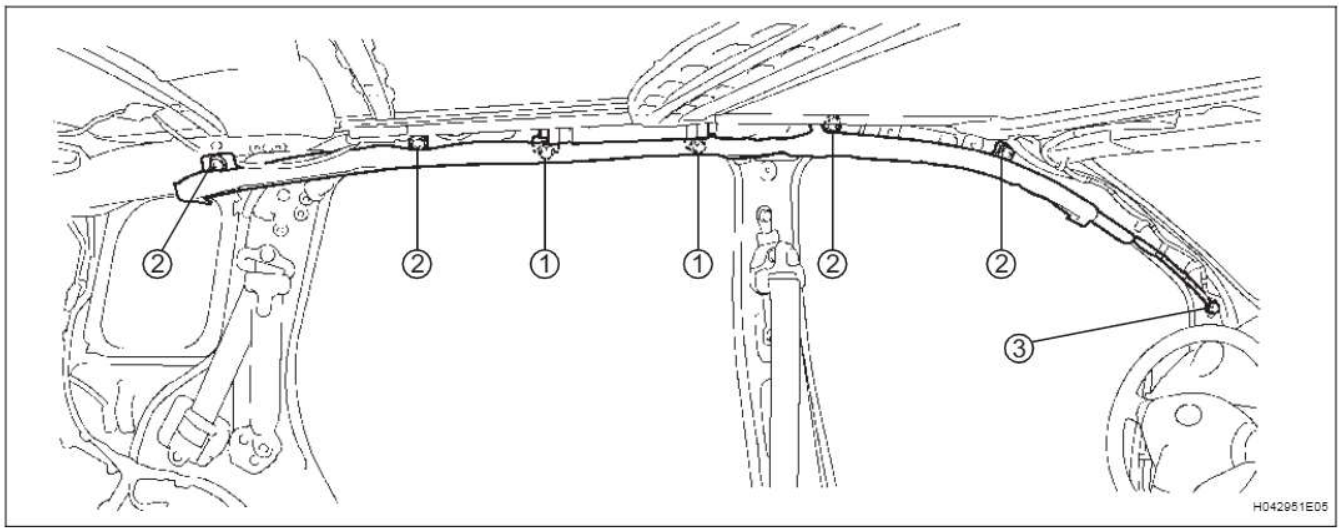


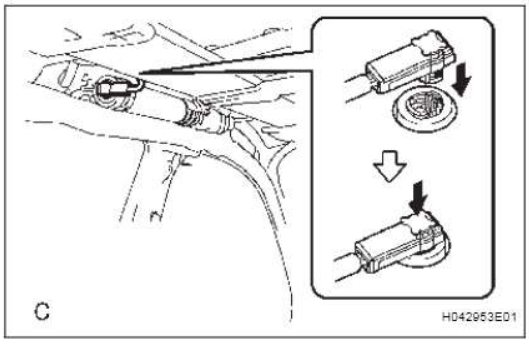



# INSTALLATION

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY**
   (a) Install the curtain shield airbag with 3 new bolts and 4 new screws in the order shown in the illustration.
   **NOTICE:**
   **Do not twist the curtain shield airbag assembly when installing it.**
   **Torque: 14 N*m (143 kgf*cm, 10 ft.*lbf)**




   (b) Connect the connector.
   **NOTICE:**
   **When handling the airbag connector, take care not to damage the airbag wire harness.**

2. **INSTALL ROOF HEADLINING ASSEMBLY**
   (a) Install the roof headlining (see page IR-12).

3. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

4. **PERFORM INITIALIZATION**
   (a) Perform initialization (see page IN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

5. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-28).

RS

# DISPOSAL

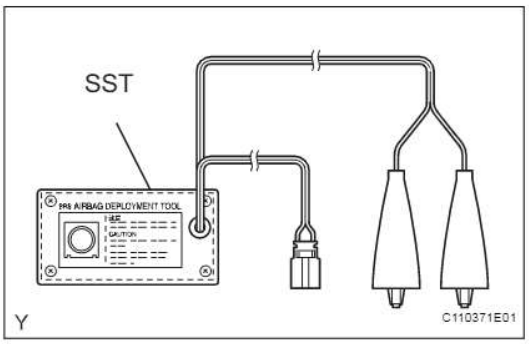
HINT:
When scrapping a vehicle equipped with an SRS or disposing of the curtain shield airbag assembly, be sure to deploy the airbag first in accordance with the procedure described below. If any abnormality occurs with the airbag deployment, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A., INC.

**CAUTION:**

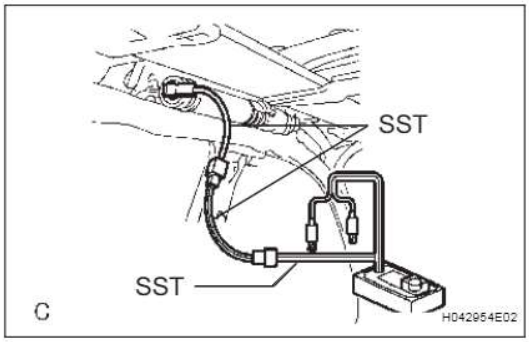
- **Never dispose of a curtain shield airbag that has an unactivated airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified SST (SRS Airbag Deployment Tool).**
- **Perform the operation in a place away from electrical noise.**
- **When deploying the airbag, perform the operation at least 10 m (33 ft.) away from the airbag.**
- **The airbag becomes very hot when it is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

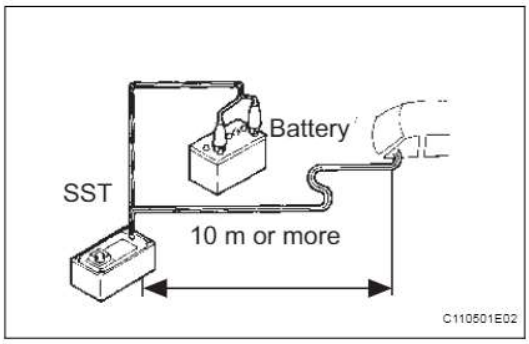
1. **DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY TOGETHER WITH VEHICLE**

HINT:
Prepare a battery as the power source to deploy the airbag.




(a) Check if SST is functioning properly (see page RS-289).
(b) Follow the "Precaution" (see page RS-1).
(c) Disconnect the cable from the negative battery terminal. Wait at least 90 seconds after disconnecting the cable to prevent the airbag from deploying.
(d) Remove the roof headlining assembly (see page IR-7).
(e) Install the SST.
  (1) Disconnect the connector from the curtain shield airbag.
  **NOTICE:**
  **When handling the airbag connector, take care not to damage the airbag wire harness.**




(2) After connecting the SST to each other, connect them to the curtain shield airbag.
**SST 09082-00700, 09082-00802 (09082-10801, 09082-20801)**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.**

(3) Move the SST at least 10 m (33 ft.) away from the vehicle rear side window.

(4) Maintaining enough clearance for the SST wire harness in the rear side window, close all the doors and windows of the vehicle.
**NOTICE:**
**Take care not to damage the SST wire harness.**

(5) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the battery negative (-) terminal.

(f) Deploy the airbag.

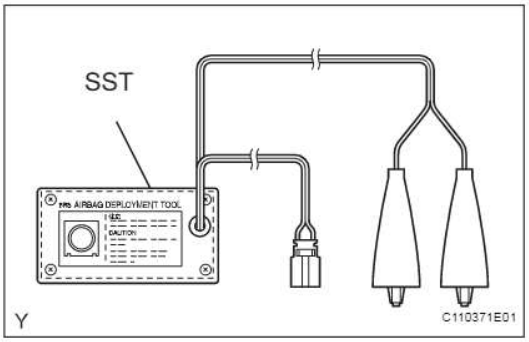
(1) Check that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.

(2) Press the SST activation switch and deploy the airbag.
**CAUTION:**
- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The airbag becomes very hot when it is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

HINT:
The airbag is deployed as the LED of the SST activation switch comes on.

**2. DISPOSE OF ONLY CURTAIN SHIELD AIRBAG ASSEMBLY**
**NOTICE:**
- **When disposing of the curtain shield airbag, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure detailed below when deploying the airbag.**

HINT:
Prepare a battery as the power source to deploy the airbag.

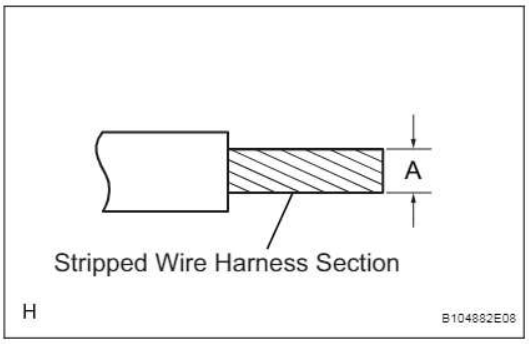



(a) Check if SST is functioning properly (see page RS-289).

(b) Remove the curtain shield airbag assembly (see page RS-311).

**CAUTION:**
**When removing the curtain shield airbag, work must be started at least 90 seconds after the ignition switch is turned OFF and the negative (-) terminal cable is disconnected from the battery.**

(c) Cut off the deployment section of the curtain shield airbag.



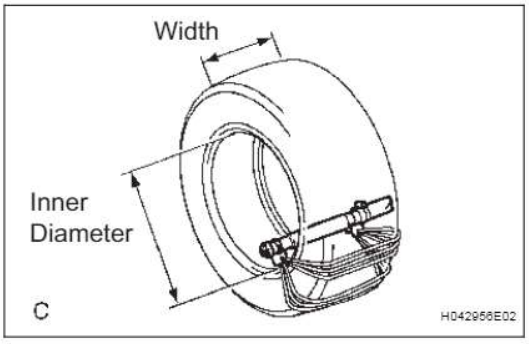

(d) Using a service wire harness for the vehicle, tie down the curtain shield airbag to the tire.

**Wire harness:**
**Stripped wire harness section A:**
**1.25 $mm^2$ or more (0.0019 $in.^2$ or more)**

**CAUTION:**
**If the wire harness is too thin or an alternative object is used to tie down the curtain shield airbag assembly, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 $mm^2$ (0.0019 $in.^2$).**

HINT:
To calculate the area of the stripped wire harness section:

Area = 3.14 x $Diameter^2/4$

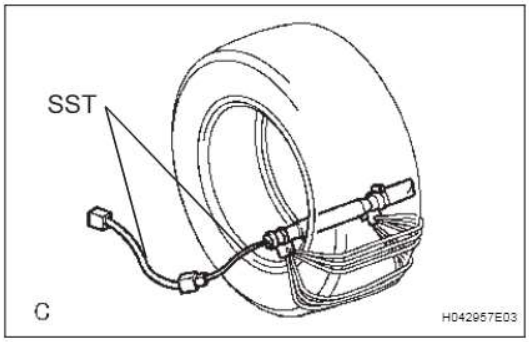



(1) Position the curtain shield airbag inside the tire as shown in the illustration.

**Tire size:**
**Must exceed the following dimensions**
**Width:**
**185 mm (7.28 in.)**
**Inner diameter:**
**360 mm (14.17 in.)**

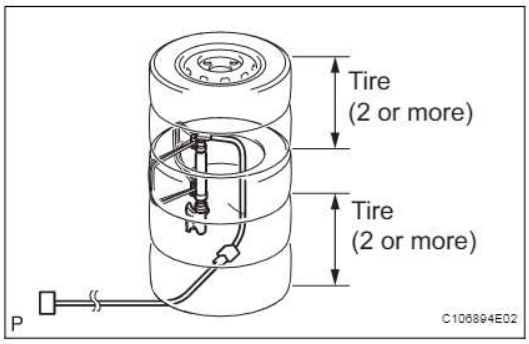
**CAUTION:**
**Make sure that the wire harness is tight. If there is slack in the wire harness, the curtain shield airbag assembly may become loose due to the shock when the airbag is deployed.**

**NOTICE:**
**Use tires that you are planning to throw away, as the airbag deployment may damage the tires.**

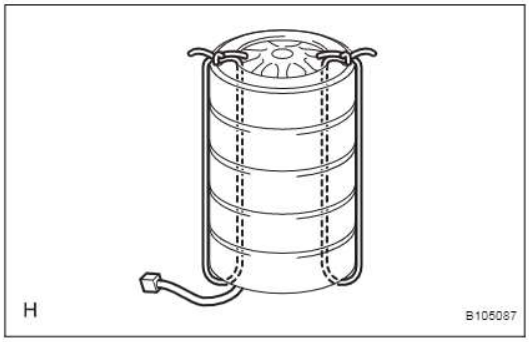



(e) Install the SST.
(1) After connecting the SST to each other, connect them to the curtain shield airbag.
**SST 09082-00802 (09082-10801, 09082-20801)**

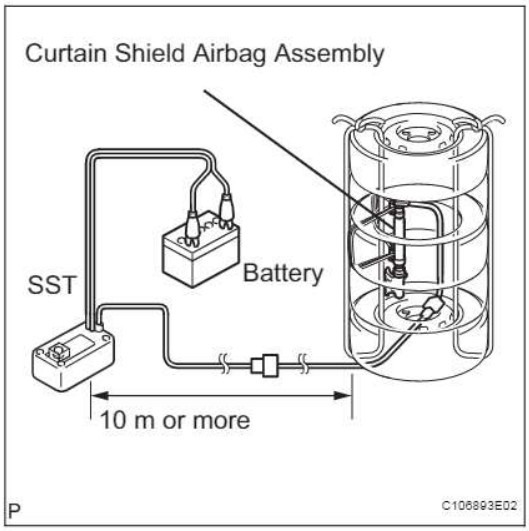
(f) Place the tires.
**CAUTION:**
**Place the curtain shield airbag so that its deployment direction is away from the ground.**




(1) Place at least 2 tires under the tire to which the curtain shield airbag is tied.
(2) Place at least 2 tires over the tire to which the curtain shield airbag is tied. The top tire should have a disc wheel installed.
**NOTICE:**
**Do not place the SST connector under the tire because it could be damaged.**

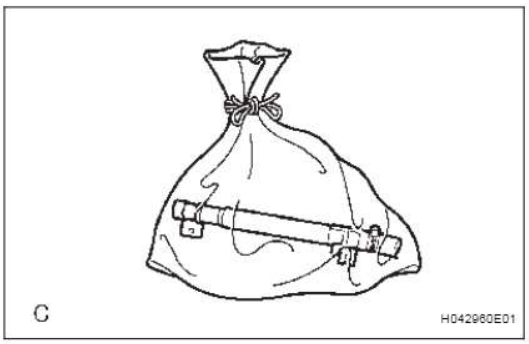



(3) Tie the tires together with 2 wire harnesses.
**CAUTION:**
**Make sure that the wire harness is tight. Looseness in the wire harness may result in the tires coming free due to the shock when the airbag is deployed.**




(g) Install the SST.
(1) Connect the SST connector.
**SST 09082-00700**
**NOTICE:**
**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock. Also, secure some slack for the SST wire harness inside the tire.**

(h) Deploy the airbag.
(1) Connect the red clip of the SST to the battery positive (+) terminal and the black clip of the SST to the battery negative (-) terminal.
(2) Check that no one is within a 10 m (33 ft.) radius of the airbag.
(3) Press the SST activation switch and deploy the airbag.
**CAUTION:**
**When deploying the airbag, make sure that no one is near the tire.**




HINT:
The airbag is deployed as the LED of the SST activation switch comes on.

(i) Dispose of the curtain shield airbag.

**CAUTION:**

- **The airbag becomes very hot when it is deployed. Do not touch it for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a deployed airbag.**
- **Do not apply water to a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

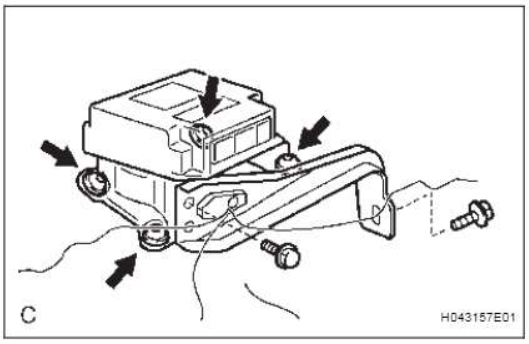
(1) Remove the curtain shield airbag from the tire.
(2) Place the curtain shield airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

RS

# REMOVAL

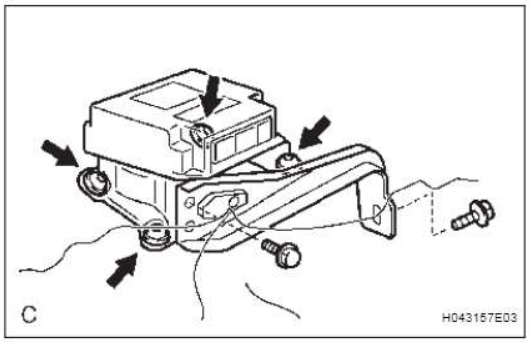
**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE INSTRUMENT PANEL SUB-ASSEMBLY**
   (a) Remove the instrument panel (see pageIP-4).
3. **REMOVE LOWER INSTRUMENT PANEL ASSEMBLY**
   (a) Remove the lower instrument panel (see pageIP-17).
4. **REMOVE REAR NO. 2 AIR DUCT**
5. **REMOVE REAR NO. 1 AIR DUCT**
6. **REMOVE CENTER AIRBAG SENSOR ASSEMBLY**
   (a) Remove the 2 bolts and instrument panel mounting bracket.
   (b) Disconnect the airbag sensor connectors.
   (c) Using a T40 "torx" socket, remove the 4 screws and airbag sensor.



# INSTALLATION

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**



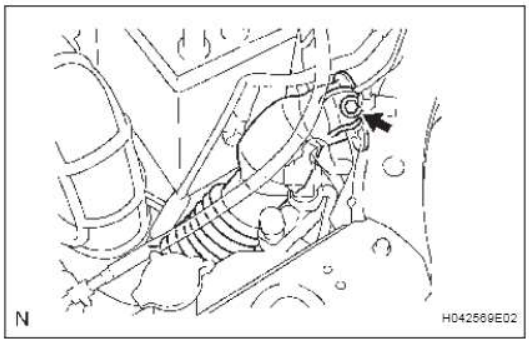

1. **INSTALL CENTER AIRBAG SENSOR ASSEMBLY**
   (a) Using a T40 "torx" socket, install the airbag sensor with the 4 screws.
   **Torque: 20 N*m (200 kgf*cm, 14 ft.*lbf)**
   **CAUTION:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.**
   - **When installing the airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**
   (b) Connect the airbag sensor connectors.
   (c) Install the instrument panel mounting bracket with the 2 bolts.
2. **INSTALL REAR NO. 2 AIR DUCT**
3. **INSTALL REAR NO. 1 AIR DUCT**
4. **INSTALL LOWER INSTRUMENT PANEL ASSEMBLY**
   (a) Install the lower instrument panel (see page IP-22).
5. **INSTALL INSTRUMENT PANEL SUB-ASSEMBLY**
   (a) Install the instrument panel (see page IP-10).
6. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
7. **PERFORM INITIALIZATION**
   (a) Perform initialization (see pageIN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**
8. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-28).

RS

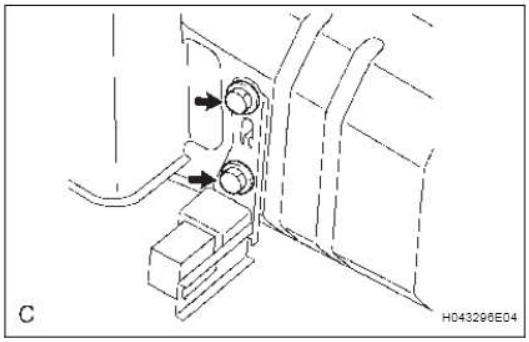
# REMOVAL

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

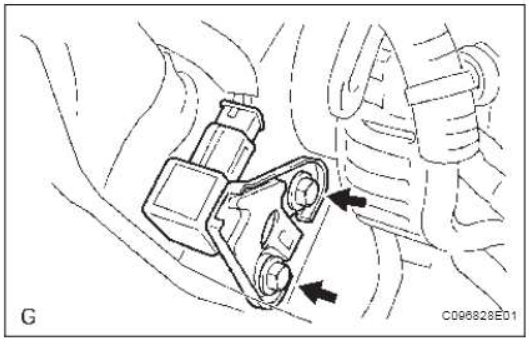
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**




2. **REMOVE NO. 1 AIR CLEANER INLET**
   (a) Remove the bolt and air cleaner inlet.




3. **REMOVE FRONT AIRBAG SENSOR LH**
   (a) Disconnect the sensor connector.
   (b) Remove the 2 bolts and sensor.

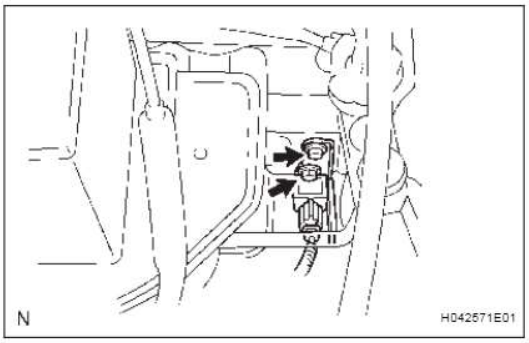



4. **REMOVE FRONT AIRBAG SENSOR RH**
   (a) Disconnect the sensor connector.
   (b) Remove the 2 bolts and sensor.

RS

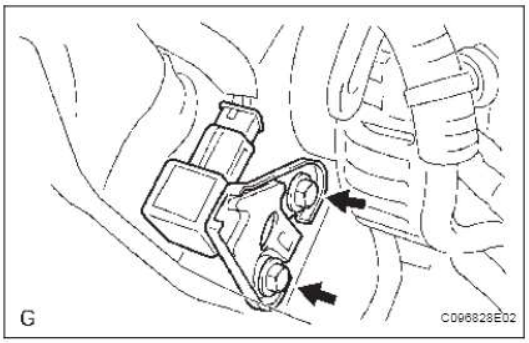
# INSTALLATION

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**



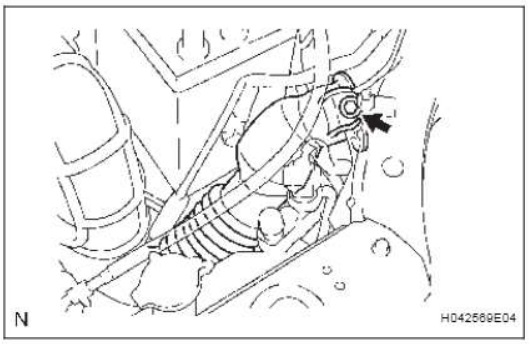

1. **INSTALL FRONT AIRBAG SENSOR LH**
   (a) Install the sensor with the 2 bolts.
   **Torque: 17.5 N*m (178 kgf*cm, 13 ft.*lbf)**
   **CAUTION:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case or connector, replace it with a new one.**
   - **When installing the airbag sensor, make sure that the SRS wiring does not interfere with other parts and is not pinched between other parts.**

   (b) Check that there is no free play in the installation parts of the sensor.
   (c) Connect the sensor connector.




2. **INSTALL FRONT AIRBAG SENSOR RH**
   (a) Install the sensor with the 2 bolts.
   **Torque: 17.5 N*m (178 kgf*cm, 13 ft.*lbf)**
   **NOTICE:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case or connector, replace it with a new one.**
   - **When installing the airbag sensor, make sure that the SRS wiring does not interfere with other parts and is not pinched between other parts.**

   (b) Check that there is no free play in the installation parts of the sensor.
   (c) Connect the sensor connector.




3. **INSTALL NO. 1 AIR CLEANER INLET**
   (a) Install the air cleaner inlet with the bolt.

4. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

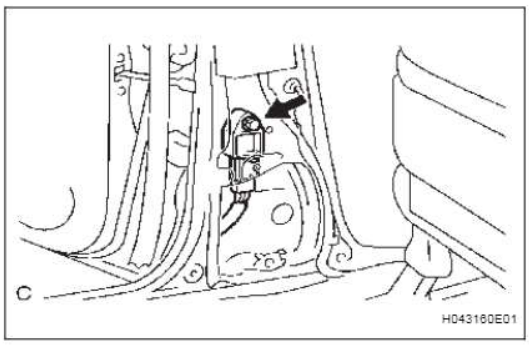
5. **PERFORM INITIALIZATION**
   (a) Perform initialization (see pageIN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**

6. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-28).

# REMOVAL

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
   HINT:
   - Use the same procedures for the RH side and LH side.
   - The procedures listed below are for the LH side.
2. **REMOVE FRONT DOOR SCUFF PLATE LH (See page IR-7)**
3. **REMOVE REAR DOOR SCUFF PLATE LH (See page IR-7)**
4. **REMOVE FRONT DOOR OPENING TRIM WEATHERSTRIP LH**
5. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH**
6. **REMOVE CENTER PILLAR GARNISH LOWER LH (See page IR-8)**
7. **REMOVE FRONT SEAT OUTER BELT ASSEMBLY LH (See page SB-9)**
8. **REMOVE SIDE AIRBAG SENSOR ASSEMBLY LH**
   (a) Remove the nut and sensor.
   (b) Disconnect the connector.



RS

# INSTALLATION

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**
HINT:
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

1. **INSTALL SIDE AIRBAG SENSOR ASSEMBLY LH**
   (a) Install the sensor with the nut.
   **Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)**
   **CAUTION:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.**
   - **When installing the airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**

   (b) Check that there is no looseness in the installation parts of the sensor.
   (c) Connect the connector.
2. **INSTALL FRONT SEAT OUTER BELT ASSEMBLY LH (See page SB-10)**
3. **INSTALL CENTER PILLAR GARNISH LOWER LH (See page IR-16)**
4. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH**
5. **INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH**
6. **INSTALL REAR DOOR SCUFF PLATE LH (See page IR-17)**
7. **INSTALL FRONT DOOR SCUFF PLATE LH (See page IR-17)**
8. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
9. **PERFORM INITIALIZATION**
   (a) Perform initialization (see pageIN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**
10. **CHECK SRS WARNING LIGHT**
    (a) Check the SRS warning light (see page RS-28).

| DTC | B0102/11 | Short to GND in Driver Side Squib Circuit |
|---|---|---|

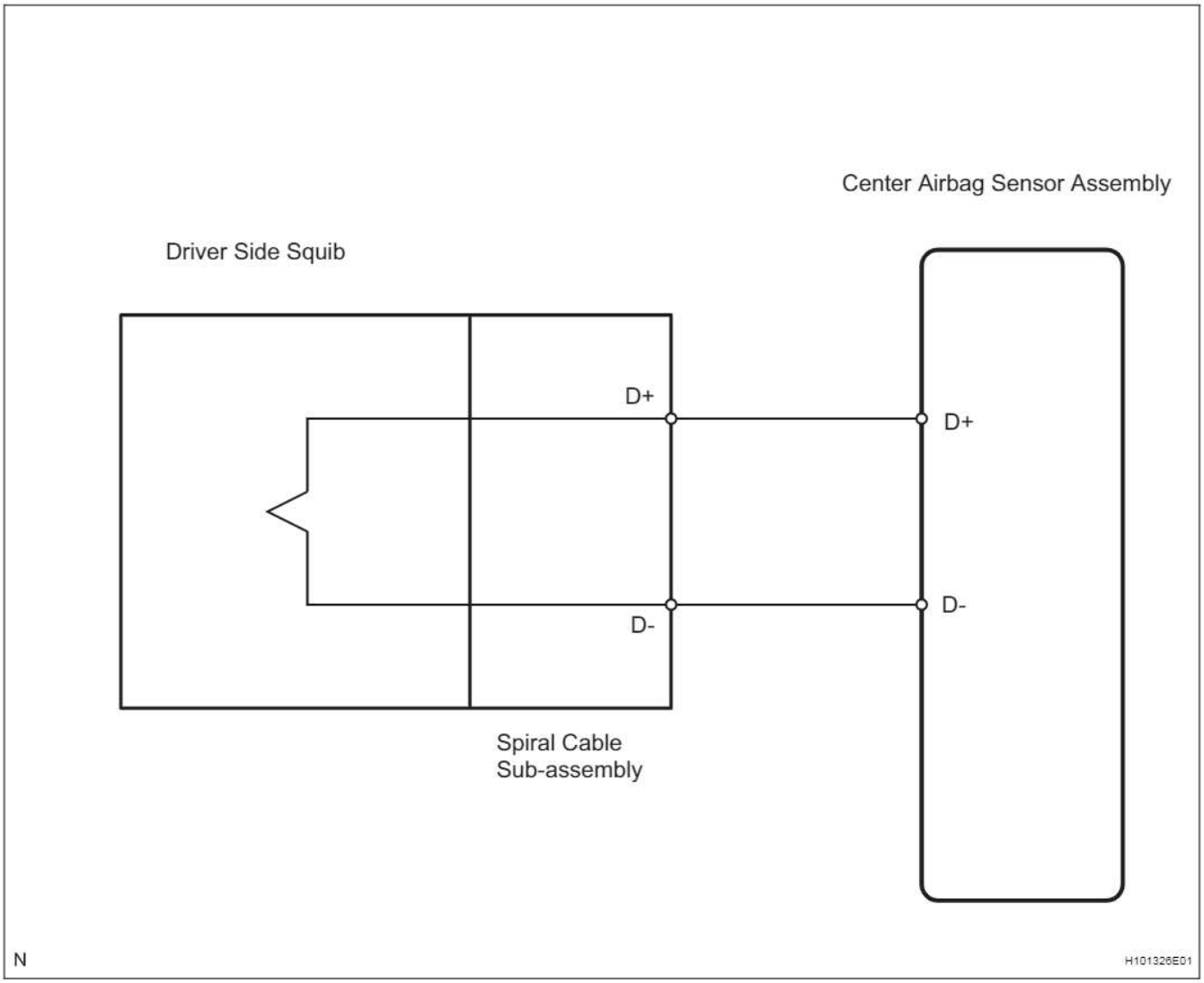
## DESCRIPTION

The driver side squib circuit consists of the center airbag sensor, the spiral cable and the steering pad. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0102/11 is recorded when a ground short is detected in the driver side squib circuit.

RS

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0102/11 | • Short in driver side squib circuit (to ground)<br>• Driver side squib malfunction<br>• Spiral cable malfunction<br>• Center airbag sensor malfunction | • Steering pad (driver side squib)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |

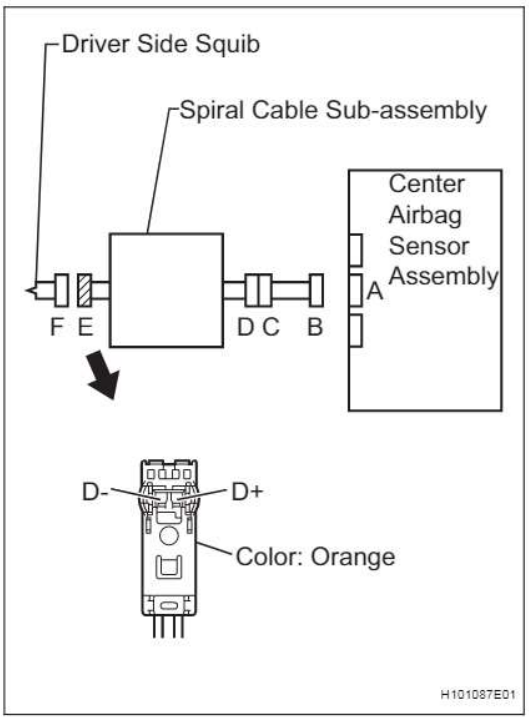
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR - STEERING PAD ASSEMBLY) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and steering pad.
(d) Measure the resistance according to the value(s) in the table below.

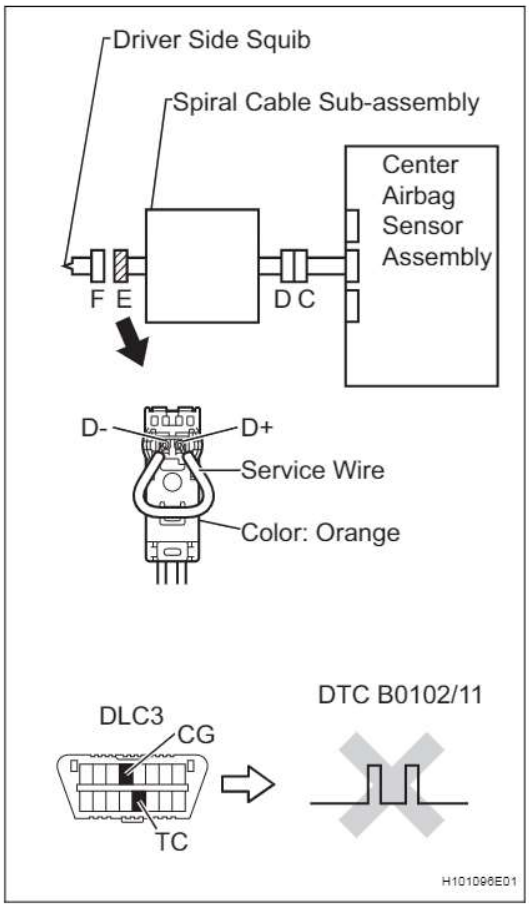
**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D+ - Body ground | 1 MΩ or higher |
| D- - Body ground | 1 MΩ or higher |

NG → **Go to step 5**

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Connect the connector to the center airbag sensor.
(b) Using a service wire, connect D+ and D- of the connector "E".
**NOTICE:**
- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

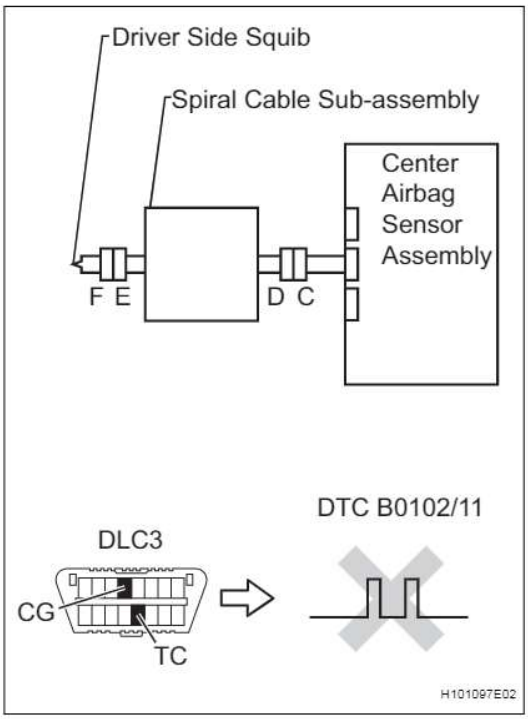
(c) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(d) Turn the ignition switch to ON, and wait at least for 60 seconds.
(e) Clear the DTC stored in memory (see page RS-30).
(f) Turn the ignition switch to LOCK.
(g) Turn the ignition switch to ON, and wait at least for 60 seconds.
(h) Check DTC (see page RS-30).
**OK:**
**DTC B0102/11 is not output.**
HINT:
Codes other than code B0102/11 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "E".
(d) Connect the connectors to the steering pad.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0102/11 is not output.**

HINT:

Codes other than code B0102/11 may be output at this time, but they are not relevant to this check.

NG → **REPLACE STEERING PAD ASSEMBLY**

OK

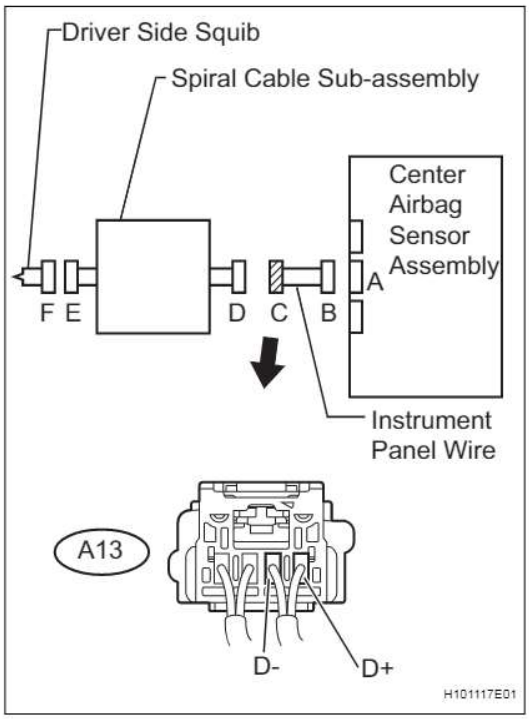
| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

## 5 CHECK INSTRUMENT PANEL WIRE




(a) Disconnect the instrument wire connector from the spiral cable.

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

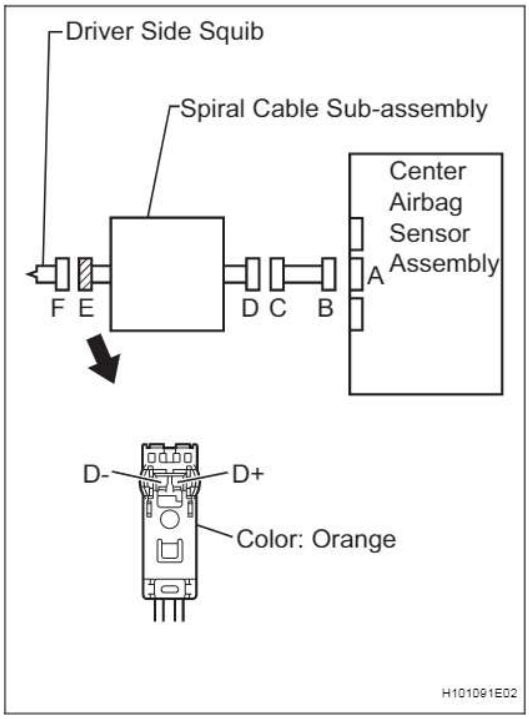
**Standard resistance**

| Tester Connection (Connector "C") | Specified Condition |
|---|---|
| A13-1 (D+) - Body ground | 1 MΩ or higher |
| A13-2 (D-) - Body ground | 1 MΩ or higher |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 6 CHECK SPIRAL CABLE SUB-ASSEMBLY




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

**Standard resistance**

| Tester Connection (Connector "E") | Specified Condition |
|---|---|
| D+ - Body ground | 1 MΩ or higher |
| D- - Body ground | 1 MΩ or higher |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

| | |
|---|---|
| 7 | USE SIMULATION METHOD TO CHECK |

NG → Go to step 1

RS

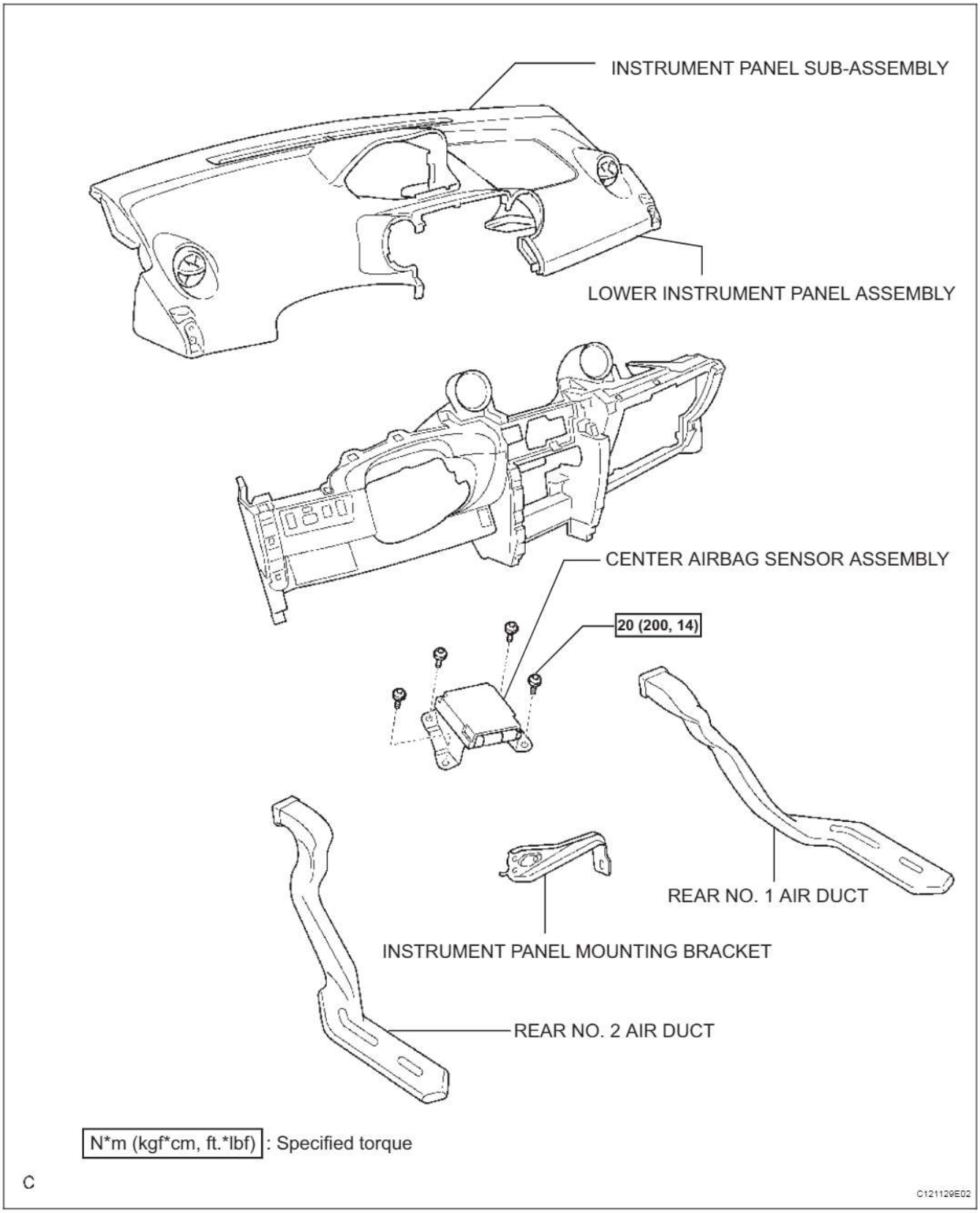
OK ↓

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

# CENTER AIRBAG SENSOR ASSEMBLY

## COMPONENTS

RS



# ON-VEHICLE INSPECTION

1. **CHECK CENTER AIRBAG SENSOR ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).

2. **CHECK CENTER AIRBAG SENSOR ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).

3. **CHECK CENTER AIRBAG SENSOR ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG DEPLOYED)**
   (a) Replace the center airbag sensor.
   **CAUTION:**
   **For removal and installation of the center airbag sensor assembly, be sure to follow the correct procedures.**

| DTC | B0103/12 | Short to B+ in Driver Side Squib Circuit |
|---|---|---|

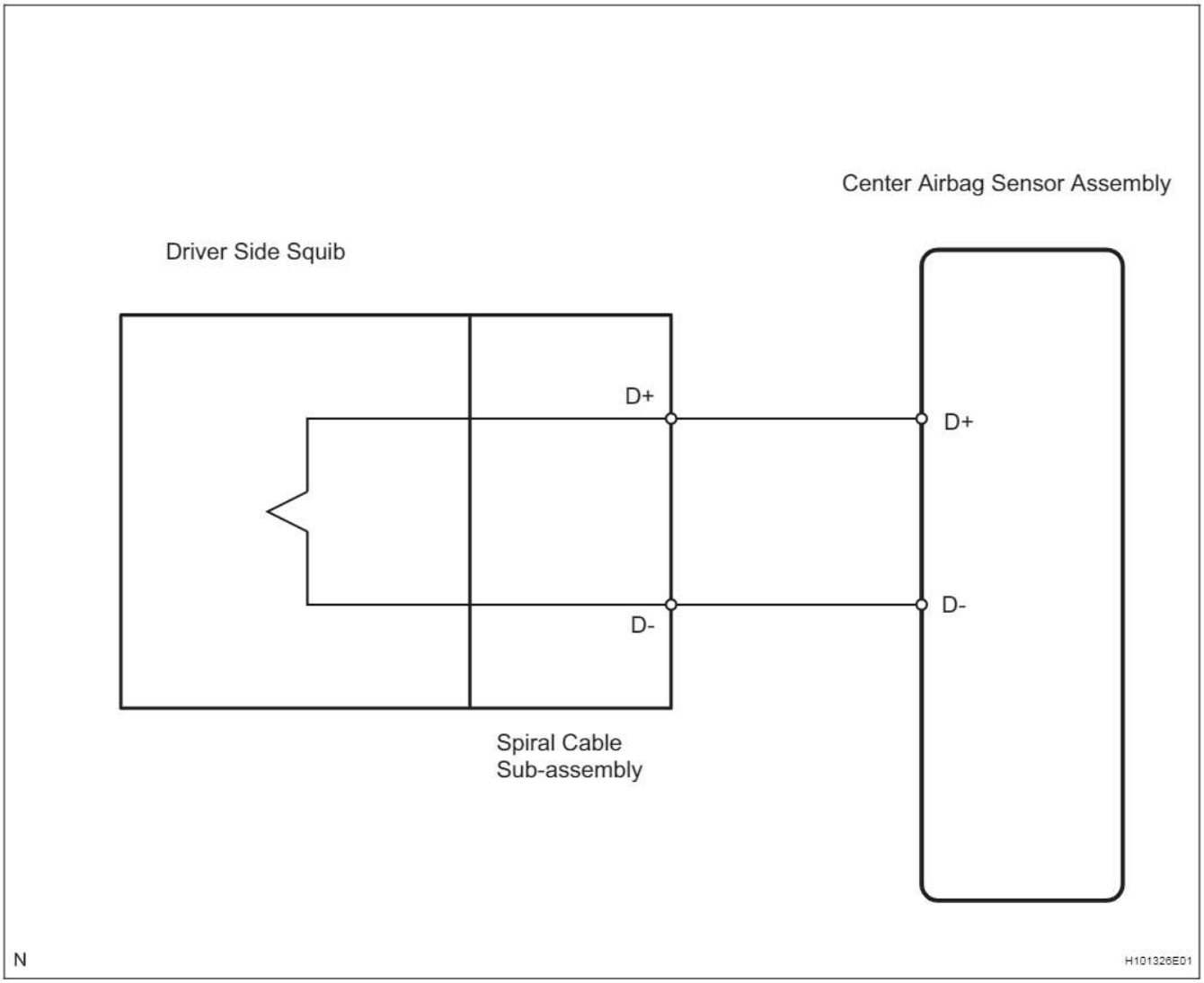
## DESCRIPTION

The driver side squib circuit consists of the center airbag sensor, the spiral cable and the steering pad. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0103/12 is recorded when a B+ short is detected in the driver side squib circuit.

RS

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0103/12 | • Short circuit in driver side squib circuit (to B+)<br>• Driver side squib malfunction<br>• Spiral cable malfunction<br>• Center airbag sensor malfunction | • Steering pad (driver side squib)<br>• Spiral cable sub-assembly<br>• Center airbag sensor assembly<br>• Instrument panel wire |

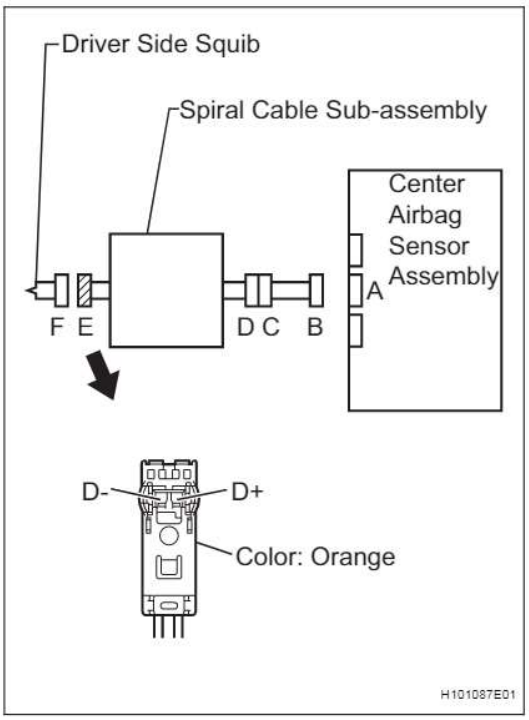
## WIRING DIAGRAM



## INSPECTION PROCEDURE

| 1 | CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR - STEERING PAD ASSEMBLY) |
|---|---|

RS




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor and steering pad.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Measure the voltage according to the value(s) in the table below.

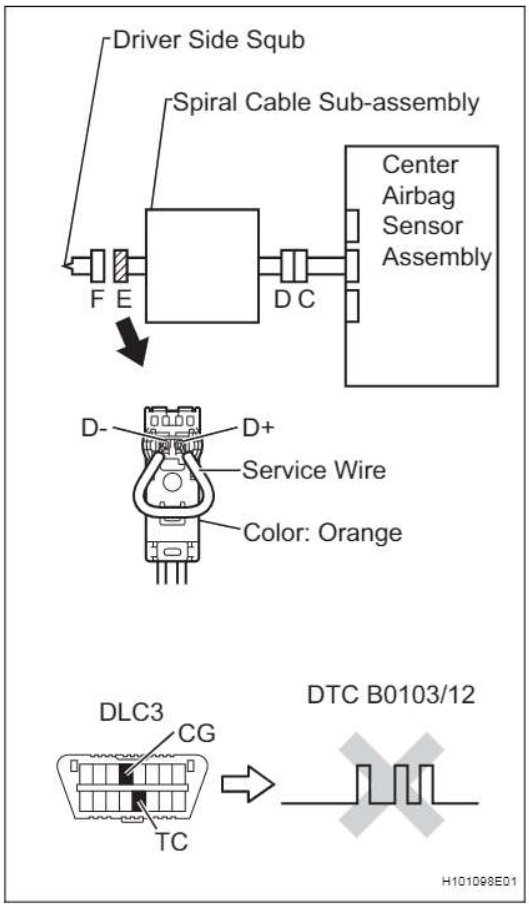
**Standard voltage**

| Tester Connection (Connector "E") | Condition | Specified Condition |
|---|---|---|
| D+ - Body ground | Ignition switch ON | Below 1 V |
| D- - Body ground | Ignition switch ON | Below 1 V |

NG → Go to step 5

OK

| 2 | CHECK CENTER AIRBAG SENSOR ASSEMBLY |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Connect the connector to the center airbag sensor.
(d) Using a service wire, connect D+ and D- of the connector "E".

**NOTICE:**

- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0103/12 is not output.**

HINT:

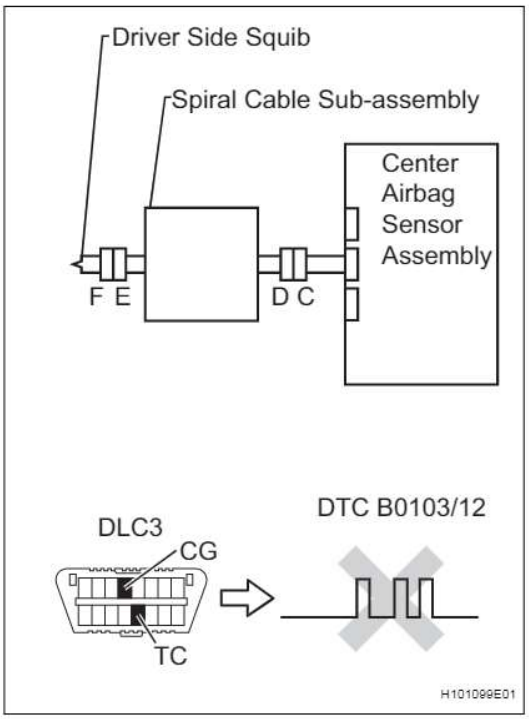
Codes other than code B0103/12 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

| 3 | CHECK STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the service wire from the connector "E".
(d) Connect the connector to the steering pad.
(e) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Clear the DTC stored in memory (see page RS-30).
(h) Turn the ignition switch to LOCK.
(i) Turn the ignition switch to ON, and wait at least for 60 seconds.
(j) Check the DTC (see page RS-30).

**OK:**

**DTC B0103/12 is not output.**

HINT:

Codes other than code B0103/12 may be output at this time, but they are not relevant to this check.

NG → **REPLACE STEERING PAD ASSEMBLY (DRIVER SIDE SQUIB)**

OK

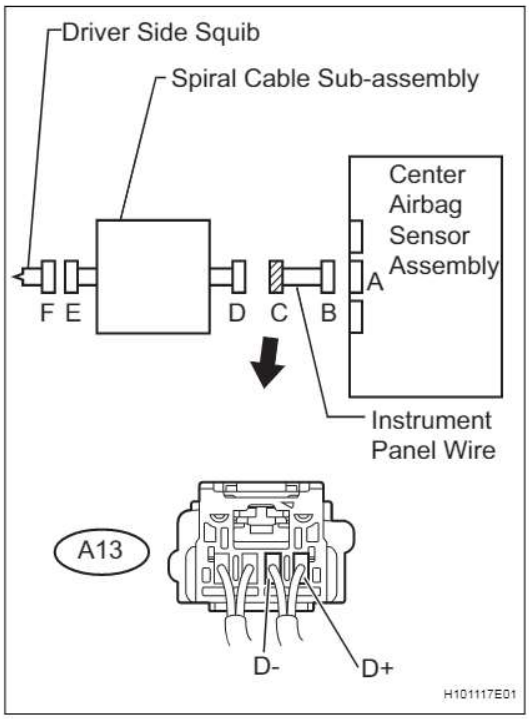
| 4 | USE SIMULATION METHOD TO CHECK |
|---|---|

NG → **Go to step 1**

OK

**REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS**

## 5 CHECK INSTRUMENT PANEL WIRE




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait at least for 90 seconds.
(c) Disconnect the instrument panel wire connector from the spiral cable.
(d) Connect the negative (-) terminal cable to the battery, and turn the ignition switch to ON.
(e) Measure the voltage according to the value(s) in the table below.

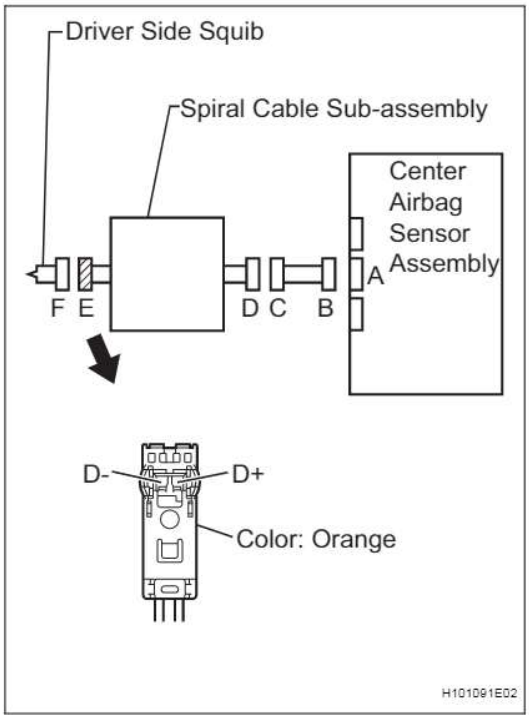
**Standard voltage**

| Tester Connection (Connector "C") | Condition | Specified Condition |
|---|---|---|
| A13-1 (D+) - Body ground | Ignition switch ON | Below 1 V |
| A13-2 (D-) - Body ground | Ignition switch ON | Below 1 V |

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

## 6 CHECK SPIRAL CABLE SUB-ASSEMBLY




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

**Standard voltage**

| Tester Connection (Connector "E") | Condition | Specified Condition |
|---|---|---|
| D+ - Body ground | Ignition switch ON | Below 1 V |
| D- - Body ground | Ignition switch ON | Below 1 V |

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

| | |
|---|---|
| 7 | USE SIMULATION METHOD TO CHECK |

NG → Go to step 1

RS

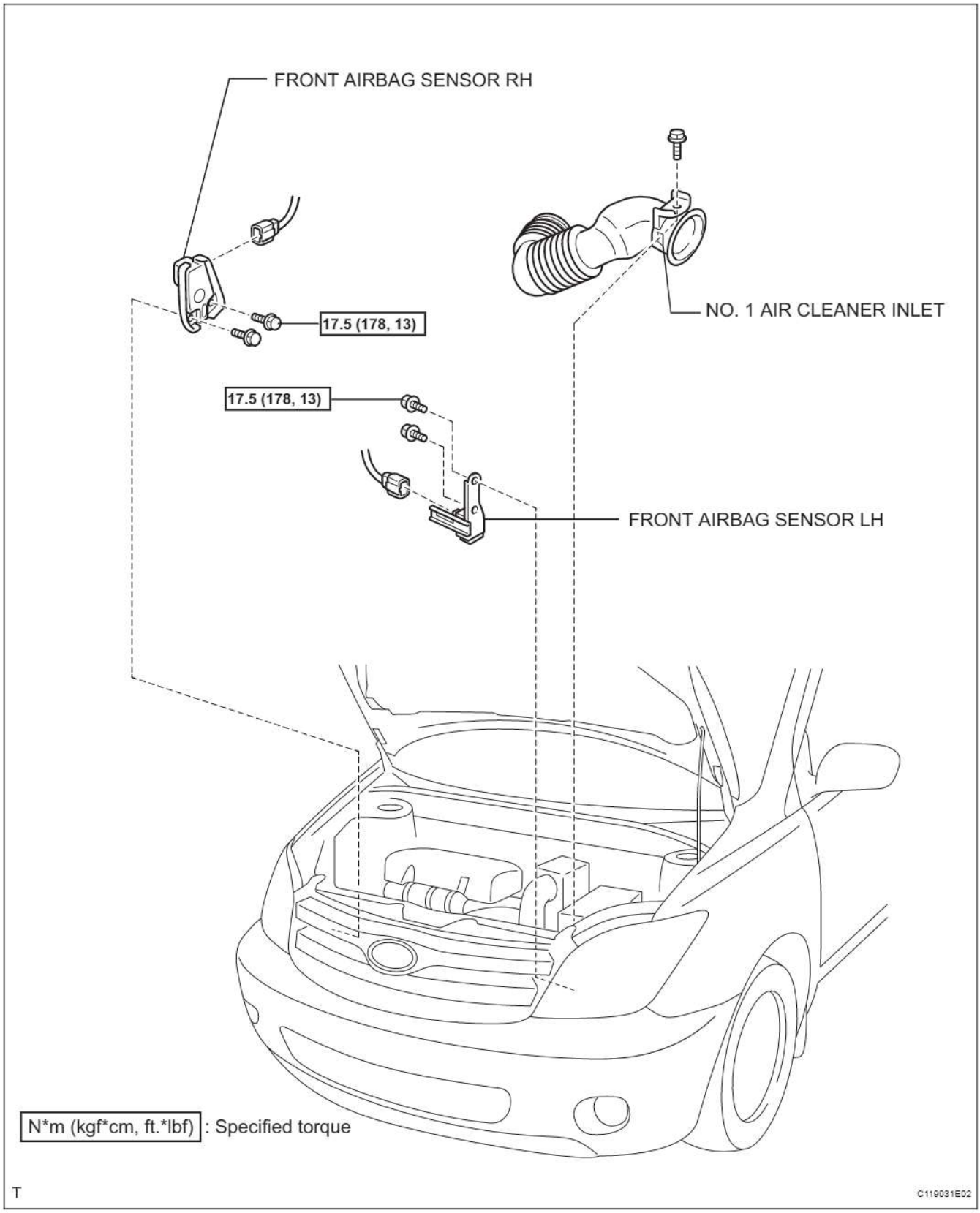
OK ↓

REPLACE ALL SRS COMPONENTS INCLUDING WIRE HARNESS

# FRONT AIRBAG SENSOR

## COMPONENTS





## ON-VEHICLE INSPECTION

1. **CHECK FRONT AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).

2. **CHECK FRONT AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) If the front fender of the vehicle or its periphery are damaged, perform a visual check:
   - Check for cracks, dents or chips in the case.
   - Check for cracks, dents, chips and scratches in the connector.
   - Check for peeling of the label or damage on the serial number.

   If any of the defects mentioned above are present, replace the front airbag sensor with a new one.
   **CAUTION:**
   **For removal and installation of the front airbag sensor, be sure to follow the correct procedures.**

3. **CHECK FRONT AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG DEPLOYED)**
   (a) Replace the front airbag sensor.
   **CAUTION:**
   **For removal and installation of the front airbag sensor, be sure to follow the correct procedures.**
   HINT:
   If the airbags have deployed, replace the front airbag sensor on the side in which the collision occurred. Replace both if necessary.

| DTC | B0105/53 | Short in Front Passenger Side Squib Circuit |
|---|---|---|

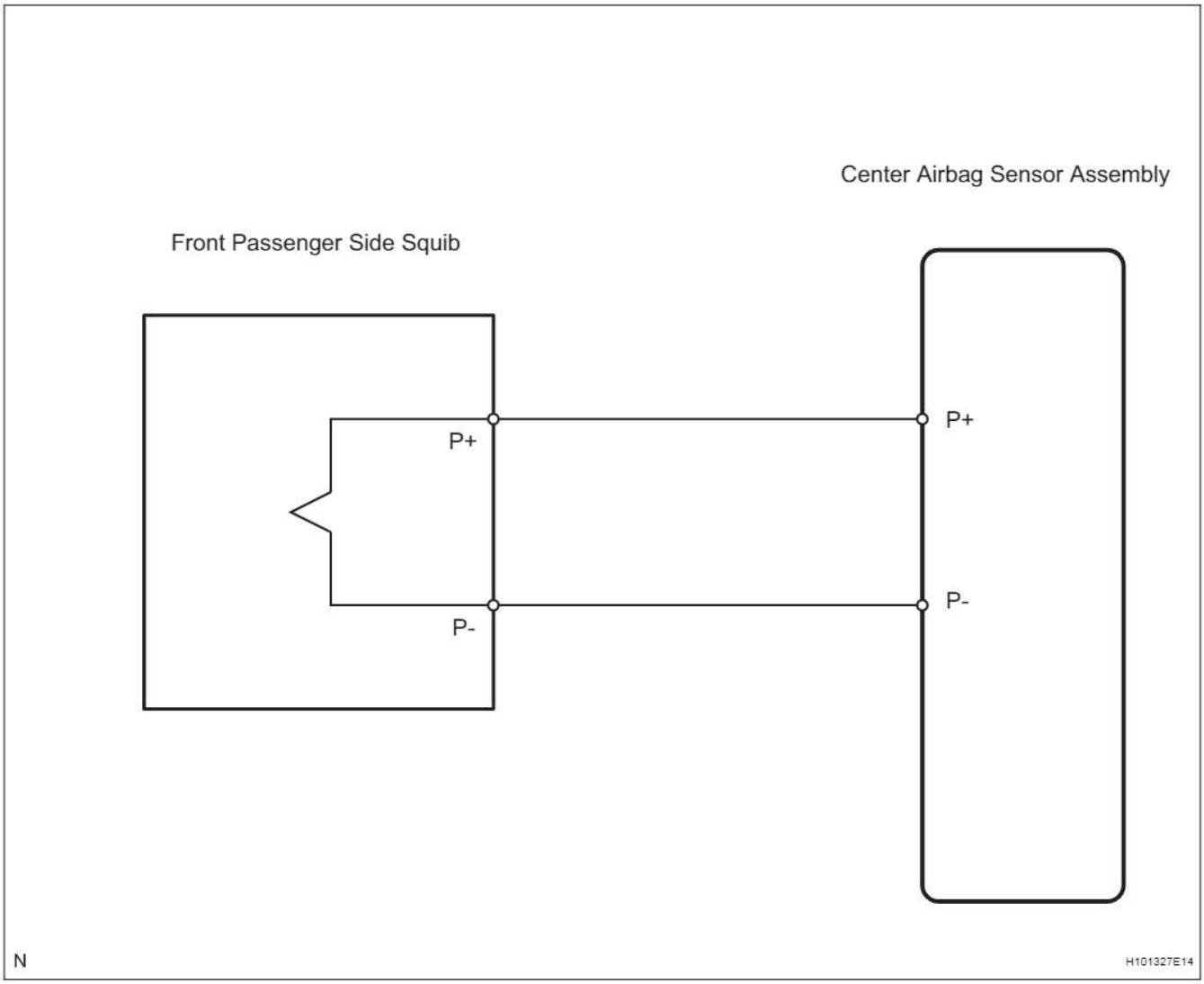
## DESCRIPTION

The front passenger side squib circuit consists of the center airbag sensor and the front passenger airbag. The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0105/53 is recorded when a short is detected in the front passenger side squib circuit.



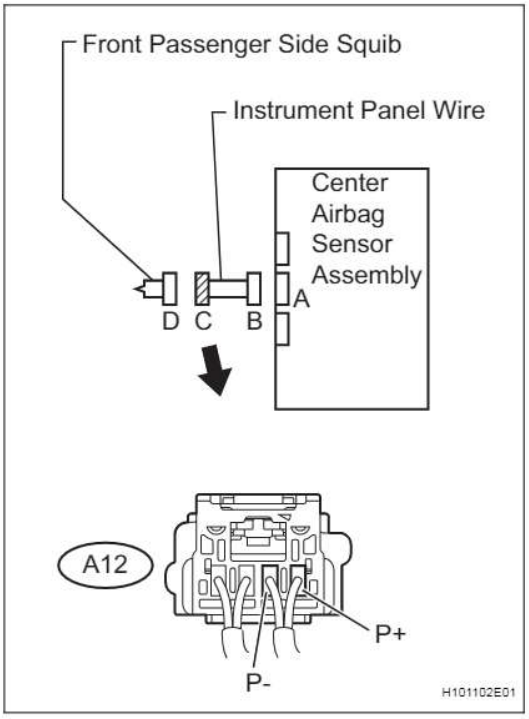
| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| B0105/53 | • Short in front passenger side squib circuit<br>• Front passenger side squib malfunction<br>• Center airbag sensor malfunction | • Front passenger airbag assembly (front passenger side squib)<br>• Center airbag sensor assembly<br>• Instrument panel wire |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 CHECK INSTRUMENT PANEL WIRE (FRONT PASSENGER SIDE SQUIB CIRCUIT)




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connectors from the center airbag sensor.
(d) Release the activation prevention mechanism built into the connector "B" (see page RS-18).
(e) Measure the resistance according to the value(s) in the table below.

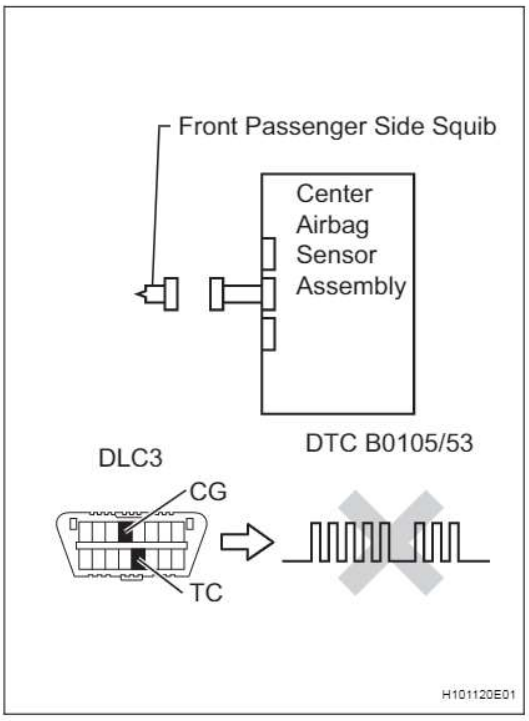
**Standard resistance**

| Tester connection (Connector "C") | Specified Condition |
|---|---|
| A12-1 (P+) - A12-2 (P-) | 1 MΩ or higher |

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

### 2 CHECK CENTER AIRBAG SENSOR ASSEMBLY




(a) Connect the connector to the center airbag sensor.
(b) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(c) Turn the ignition switch to ON, and wait at least for 60 seconds.
(d) Clear the DTC stored in memory (see page RS-30).
(e) Turn the ignition switch to LOCK.
(f) Turn the ignition switch to ON, and wait at least for 60 seconds.
(g) Check the DTC (see page RS-30).

**OK:**

**DTC B0105/53 is not output.**

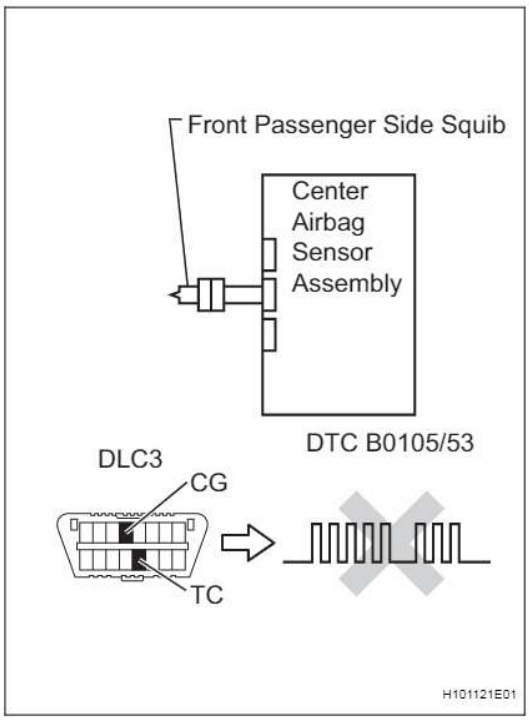
HINT:

Codes other than code B0105/53 may be output at this time, but they are not relevant to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

| 3 | CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB) |
|---|---|




(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the connector to the front passenger airbag.
(d) Connect the negative (-) terminal cable to the battery, and wait at least for 2 seconds.
(e) Turn the ignition switch to ON, and wait at least for 60 seconds.
(f) Clear the DTC stored in memory (see page RS-30).
(g) Turn the ignition switch to LOCK.
(h) Turn the ignition switch to ON, and wait at least for 60 seconds.
(i) Check the DTC (see page RS-30).

**OK:**

**DTC B0105/53 is not output.**

HINT:

Codes other than code B0105/53 may be output at this time, but they are not relevant to this check.

NG → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

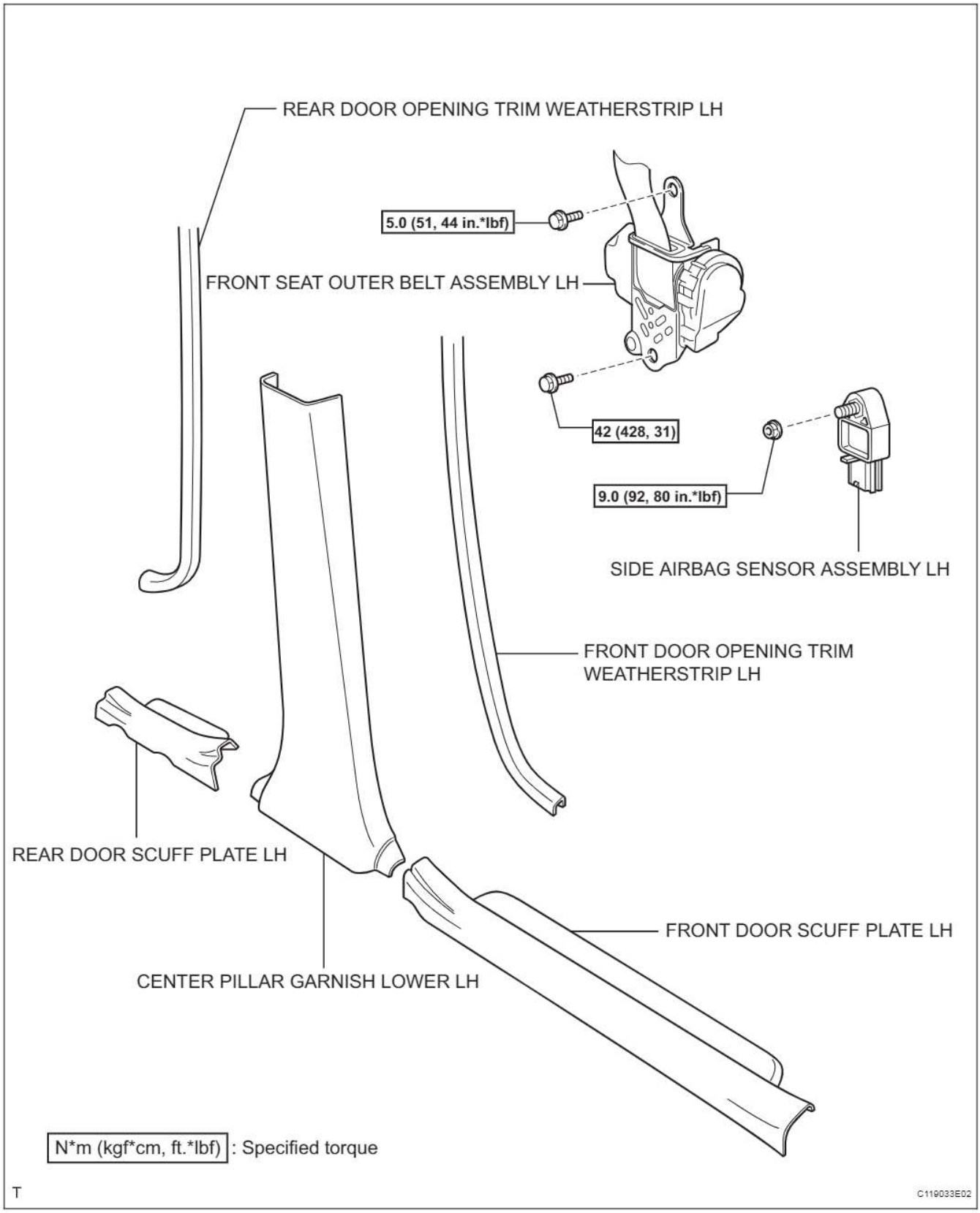
OK

**USE SIMULATION METHOD TO CHECK**

# SIDE AIRBAG SENSOR

## COMPONENTS





# ON-VEHICLE INSPECTION

1. **CHECK SIDE AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-33).

2. **CHECK SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) When the center pillar of the vehicle or its area is damaged, check if there is any damage to the side airbag sensor. If there are any defects as mentioned below, replace the side airbag sensor with a new one:
   - Cracks, dents or chips on the sensor housing.
   - Cracks or other damage to the connector.
   - Peeling off of the label or damage to the serial number.

   **CAUTION:**
   **For removal and installation procedures of the side airbag sensor, be sure to follow the correct procedure.**

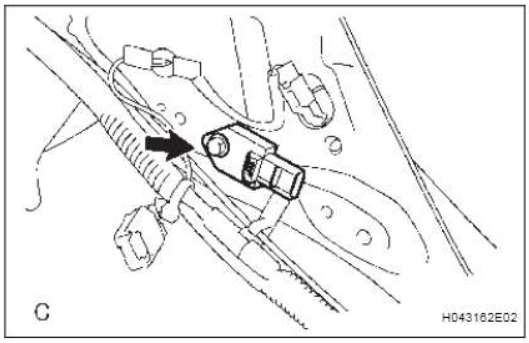
3. **CHECK SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG DEPLOYED)**
   (a) Replace the side airbag sensor.
   **CAUTION:**
   **For removal and installation procedures of the side airbag sensor, be sure to follow the correct procedure.**
   HINT:
   The side airbag sensor on the impacted side should be replaced after the front seat airbag assembly and curtain shield airbag assembly have deployed.

# REMOVAL

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing (see page RS-1).**
HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

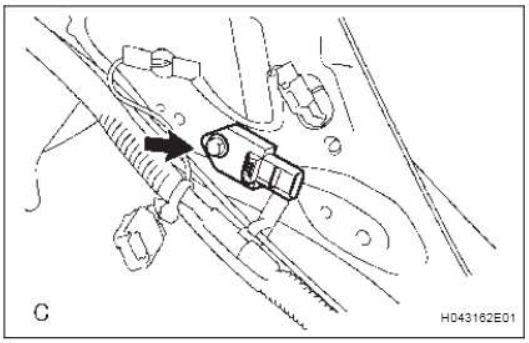
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE NO. 1 DECK BOARD**
3. **REMOVE REAR DECK TRIM COVER (See page IR-8)**
4. **REMOVE REAR DOOR SCUFF PLATE LH (See page IR-7)**
5. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH**
6. **REMOVE REAR SEAT CUSHION ASSEMBLY (See page SE-12)**
7. **REMOVE REAR SEATBACK ASSEMBLY LH (See page SE-12)**
8. **REMOVE REAR SEATBACK HINGE SUB-ASSEMBLY LH (See page SE-12)**
9. **REMOVE REAR SEAT OUTER BELT ASSEMBLY LH (See page SB-23)**
10. **REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (See page IR-9)**
11. **REMOVE REAR AIRBAG SENSOR LH**
    (a) Remove the bolt and sensor.
    (b) Disconnect the connector.



RS

# INSTALLATION

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**
HINT:
- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.



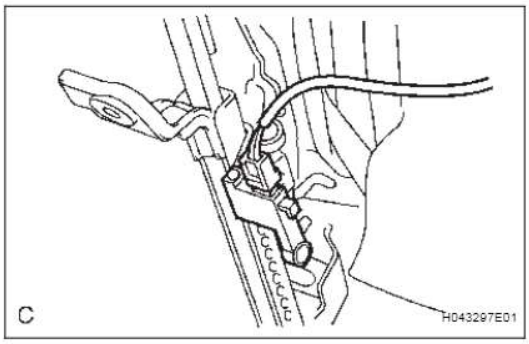

1. **INSTALL REAR AIRBAG SENSOR LH**
   (a) Remove the bolt and sensor.
   **Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)**
   **CAUTION:**
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.**
   - **When installing the airbag sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**

   (b) Check that there is no looseness in the installation parts of the airbag sensor.
   (c) Connect the connector.
2. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (See page IR-15)**
3. **INSTALL REAR SEAT OUTER BELT ASSEMBLY LH (See page SB-25)**
4. **INSTALL REAR SEATBACK HINGE SUB-ASSEMBLY LH (See page SE-16)**
5. **INSTALL REAR SEATBACK ASSEMBLY LH (See page SE-17)**
6. **INSTALL REAR SEAT CUSHION ASSEMBLY (See page SE-17)**
7. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH**
8. **INSTALL REAR DOOR SCUFF PLATE LH (See page IR-17)**
9. **INSTALL REAR DECK TRIM COVER (See page IR-15)**
10. **INSTALL NO. 1 DECK BOARD**
11. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
12. **PERFORM INITIALIZATION**
    (a) Perform initialization (see pageIN-23).
    **NOTICE:**
    **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**
13. **CHECK SRS WARNING LIGHT**
    (a) Check the SRS warning light (see page RS-28).

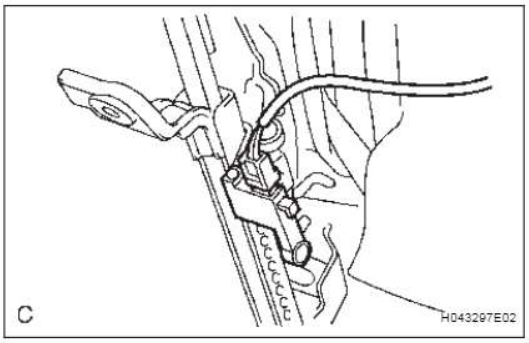
# REMOVAL

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   **CAUTION:**
   **Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.**
2. **REMOVE FRONT SEAT ASSEMBLY**
   (a) Remove the front seat assembly (see page SE-3).
3. **REMOVE SEAT POSITION AIRBAG SENSOR**
   (a) Disconnect the connector.
   (b) Using a T30 "torx" socket, remove the screw and seat position sensor.



RS



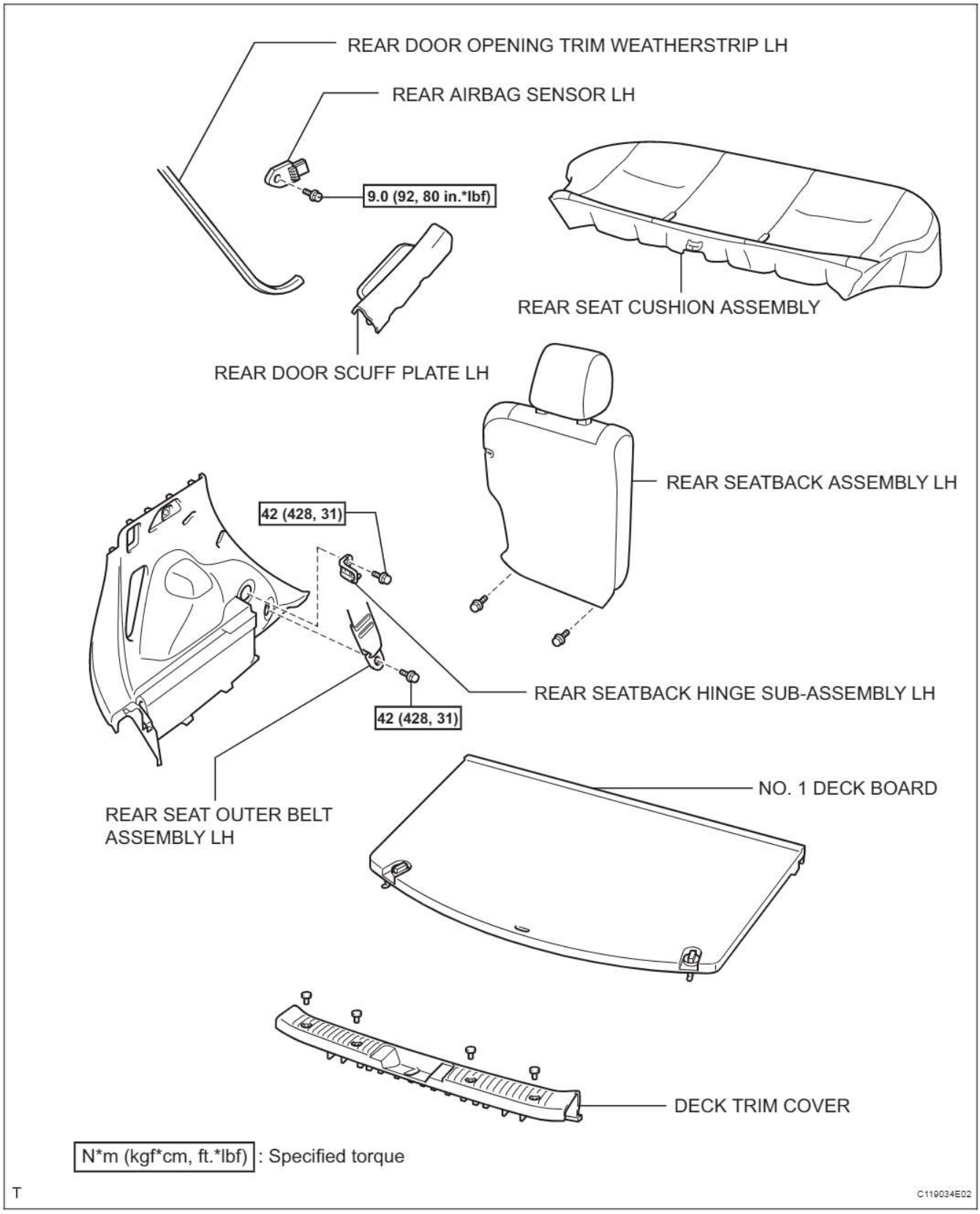

# INSTALLATION

**CAUTION:**
**Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).**

1. **INSTALL SEAT POSITION AIRBAG SENSOR**
   (a) Connect the connector.
   (b) Install the sensor.
   (c) Using a T30 "torx" socket, install the screw.
   **Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)**
   **CAUTION:**
   - **If the sensor has been dropped, or there are any cracks, dents or other defects in the case or connector, replace the sensor with a new one.**
   - **When installing the sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**
2. **INSTALL FRONT SEAT ASSEMBLY**
   (a) Install the front seat assembly (see pageSE-9).
3. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
4. **PERFORM INITIALIZATION**
   (a) Perform initialization (see pageIN-23).
   **NOTICE:**
   **Certain systems need to be initialized after disconnecting and reconnecting the cable from the negative (-) battery terminal.**
5. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-28).

# REAR AIRBAG SENSOR

## COMPONENTS



# ON-VEHICLE INSPECTION

1. **CHECK REAR AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-33).

2. **CHECK REAR AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) When the quarter panel of the vehicle or its periphery is damaged, check if there is any damage to the rear airbag sensor. If there are any defects as mentioned below, replace the rear airbag sensor with a new one:
   - Cracks, dents or chips on the sensor housing.
   - Cracks or other damage to the connector.
   - Peeling off of the label or damage to the serial number.

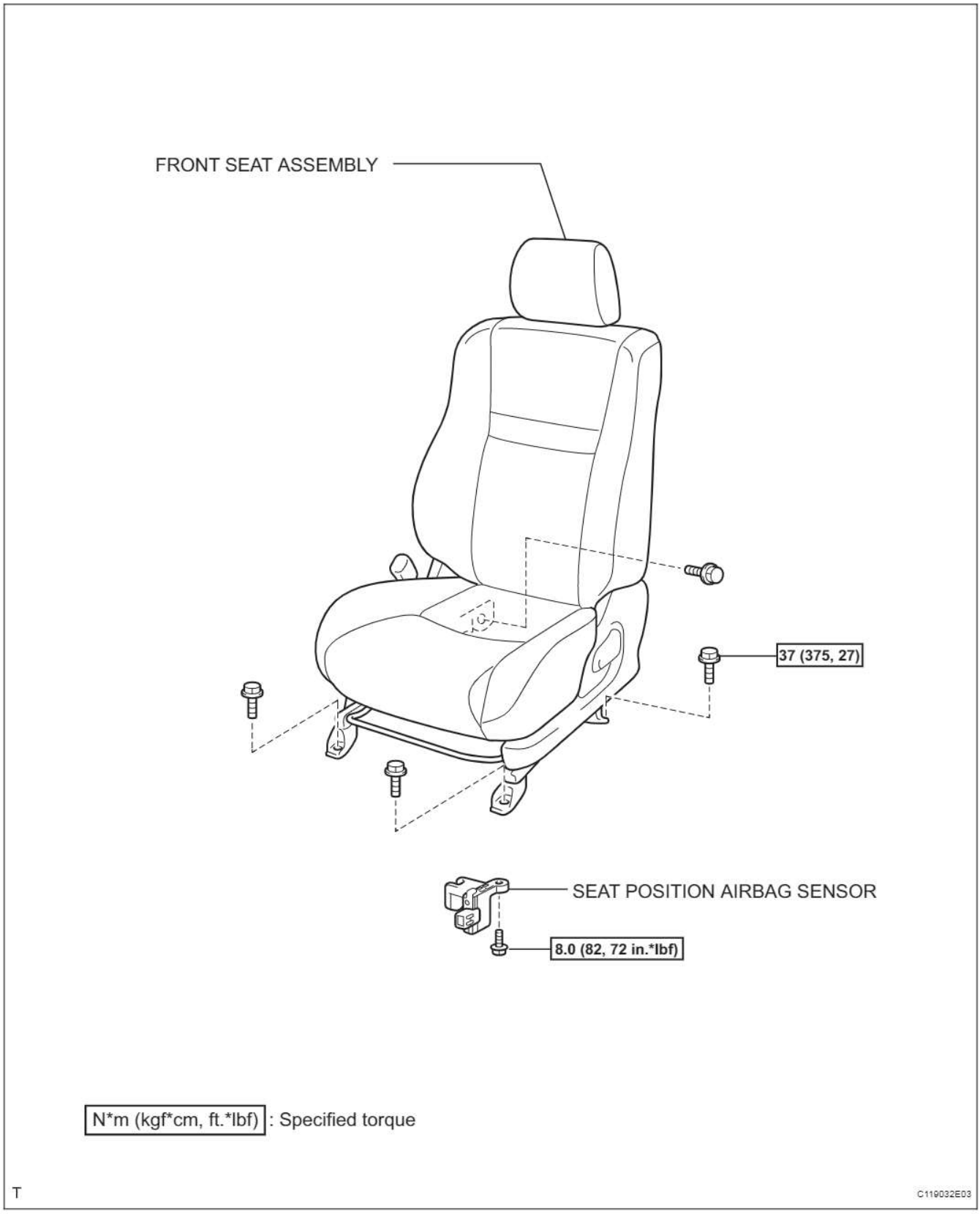
   **CAUTION:**
   **For removal and installation procedures of the rear airbag sensor, be sure to following the correct procedures.**

3. **CHECK REAR AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG DEPLOYED)**
   (a) Replace the rear airbag sensor.
   **CAUTION:**
   **For removal and installation procedures of the rear airbag sensor, be sure to follow the correct procedures.**
   HINT:
   The rear airbag sensor on the impacted side should be replaced after the curtain shield airbag assembly has deployed.

# SEAT POSITION SENSOR

## COMPONENTS

RS



# ON-VEHICLE INSPECTION

1. **CHECK SEAT POSITION SENSOR (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-33).

2. **CHECK SEAT POSITION SENSOR (VEHICLE INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-33).
   (b) Even if the airbag was not deployed, check if there is any damage to the seat position sensor.
   If there are any defects as mentioned below, replace the seat position sensor with a new one:
   - Cracks, dents or chips on the sensor housing.
   - Cracks or other damage to the connector.

   **CAUTION:**
   **For removal and installation procedures of the seat position sensor, be sure to follow the correct procedures.**