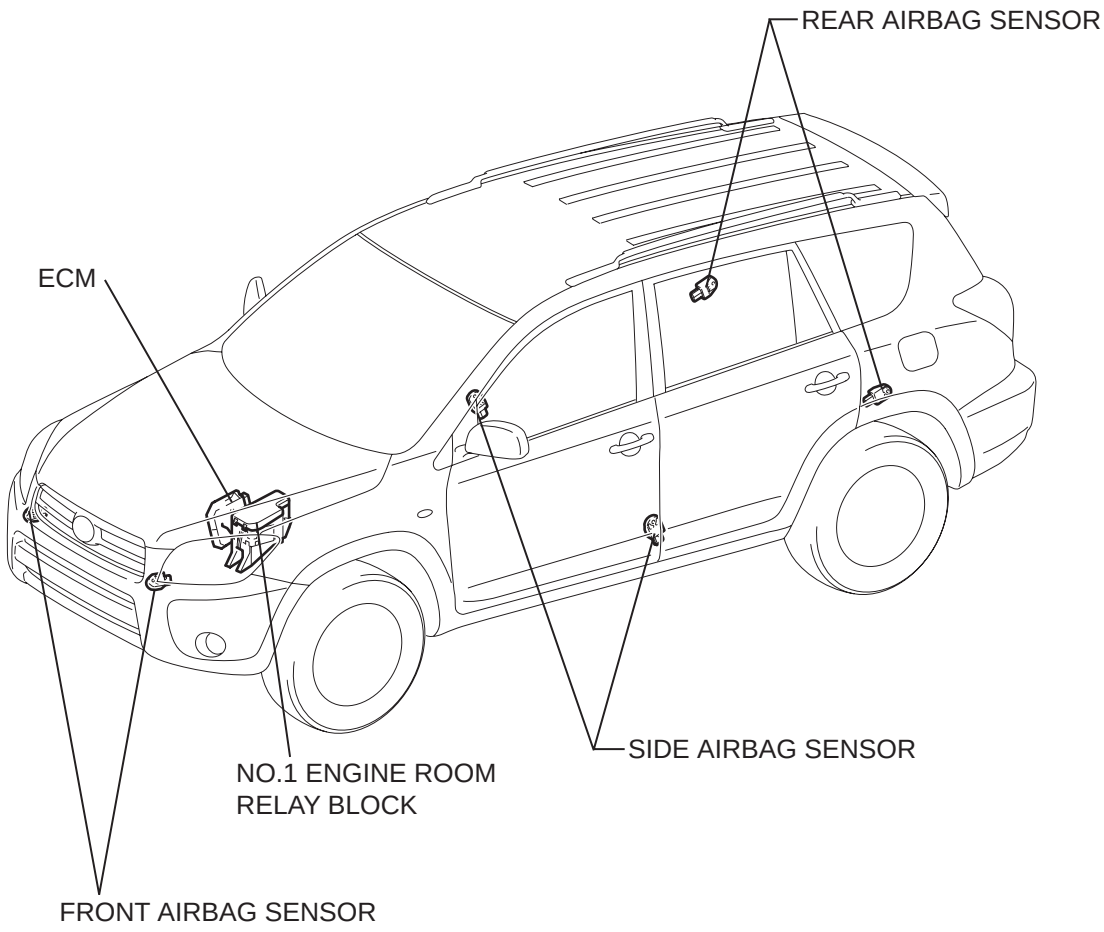
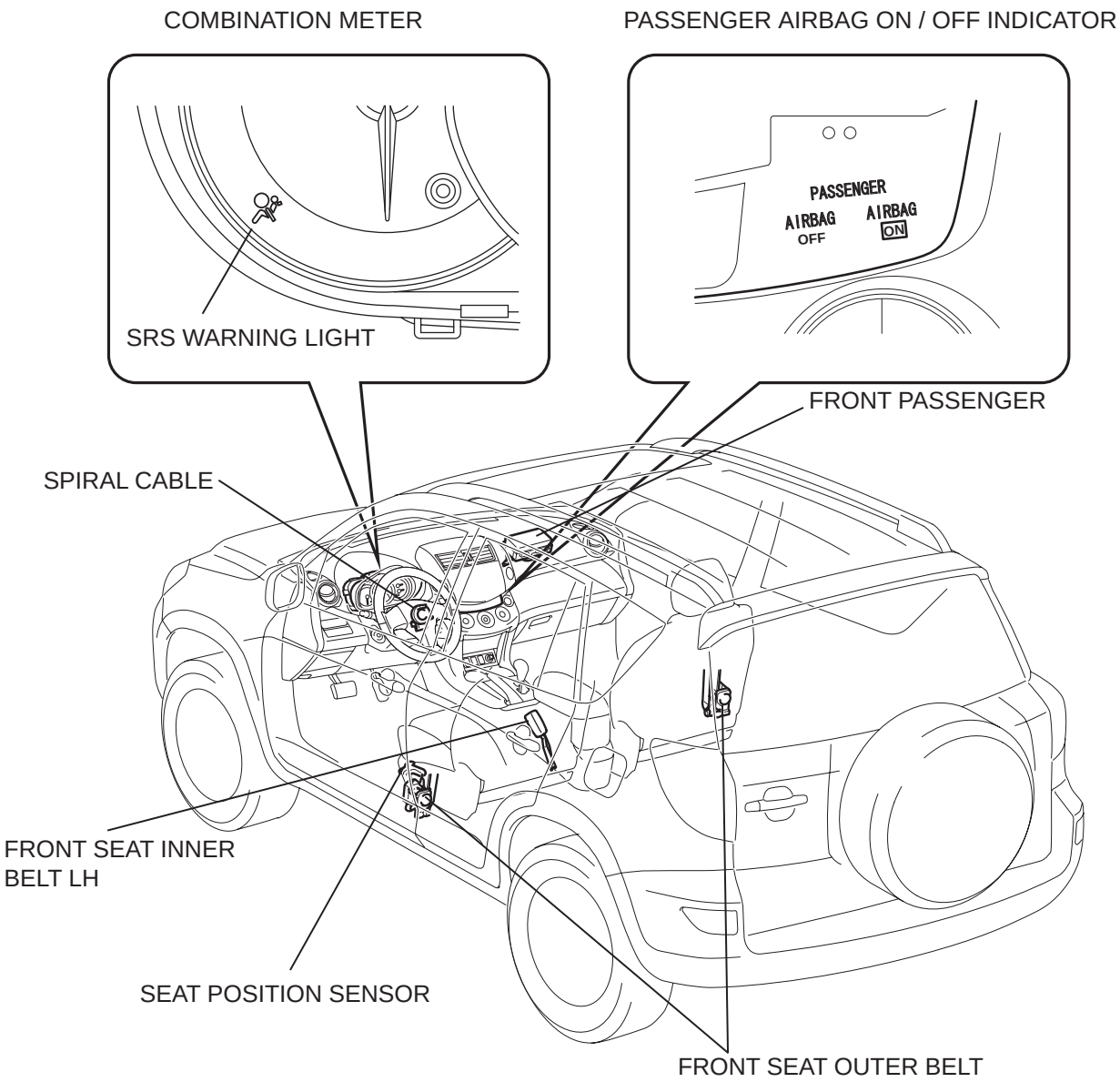
PARTS LOCATION



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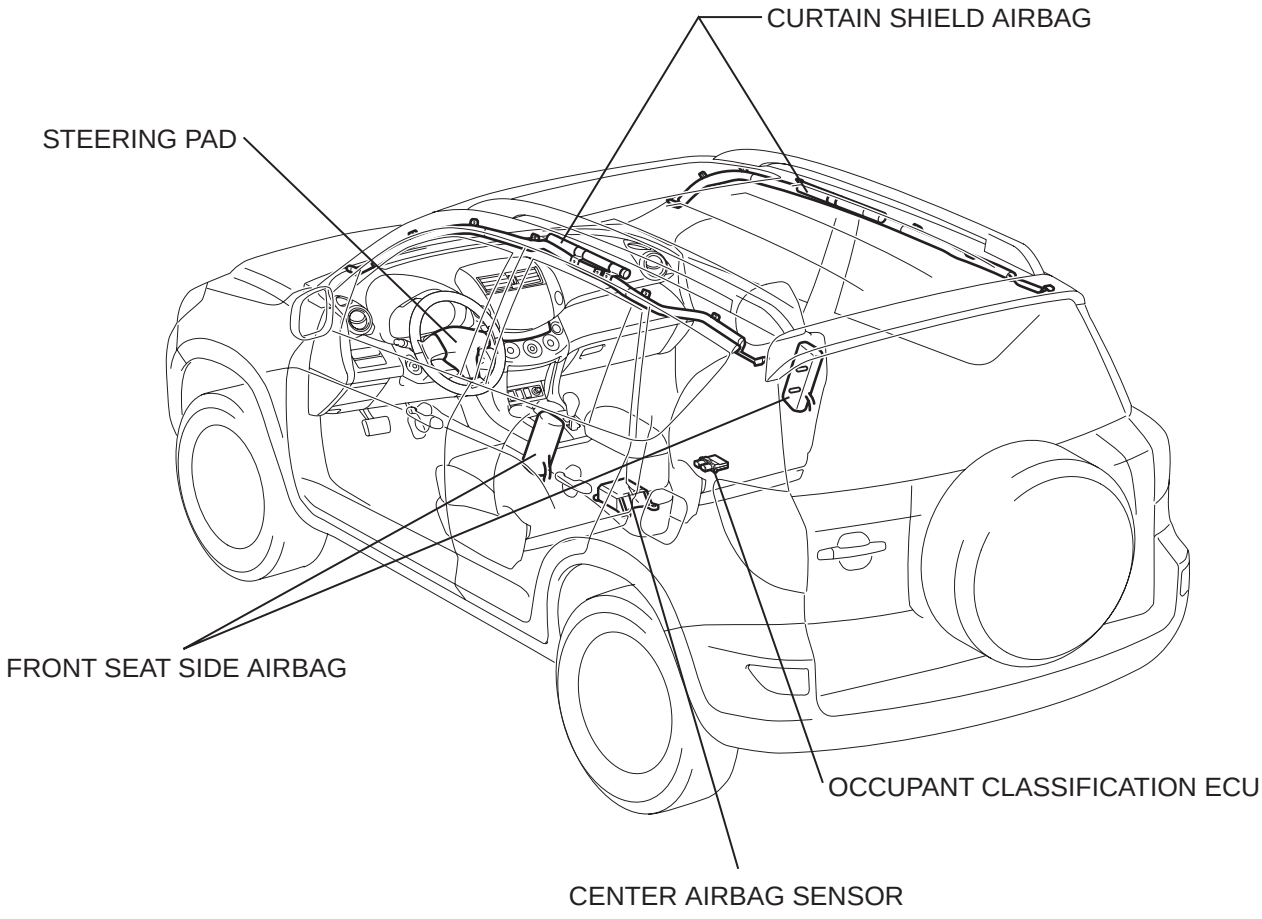
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RS

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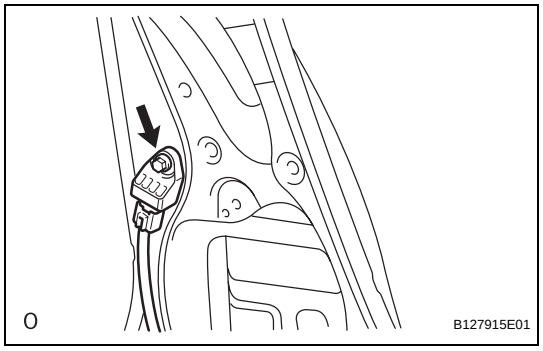
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RS

REMOVAL

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. **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 DOOR SCUFF PLATE LH (See page IR-26)**
3. **REMOVE REAR DOOR SCUFF PLATE LH (See page IR-57)**
4. **REMOVE CENTER PILLAR GARNISH LOWER LH (See page SB-27)**
5. **REMOVE SIDE AIRBAG SENSOR ASSEMBLY LH**
   (a) Disconnect the connector.
   (b) Remove the bolt and sensor.



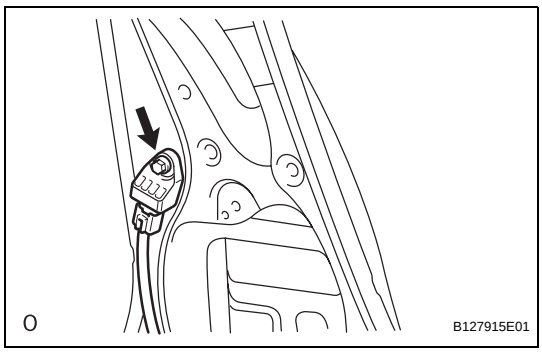
RS

INSTALLATION

HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

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



1. INSTALL SIDE AIRBAG SENSOR ASSEMBLY LH

(a) Install the sensor with the bolt.
Torque: 9.0 N*m (92 kgf*cm, 82 in.*lbf)
NOTICE:
- **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 CENTER PILLAR GARNISH LOWER LH (See page SB-31)

3. INSTALL REAR DOOR SCUFF PLATE LH (See page IR-57)

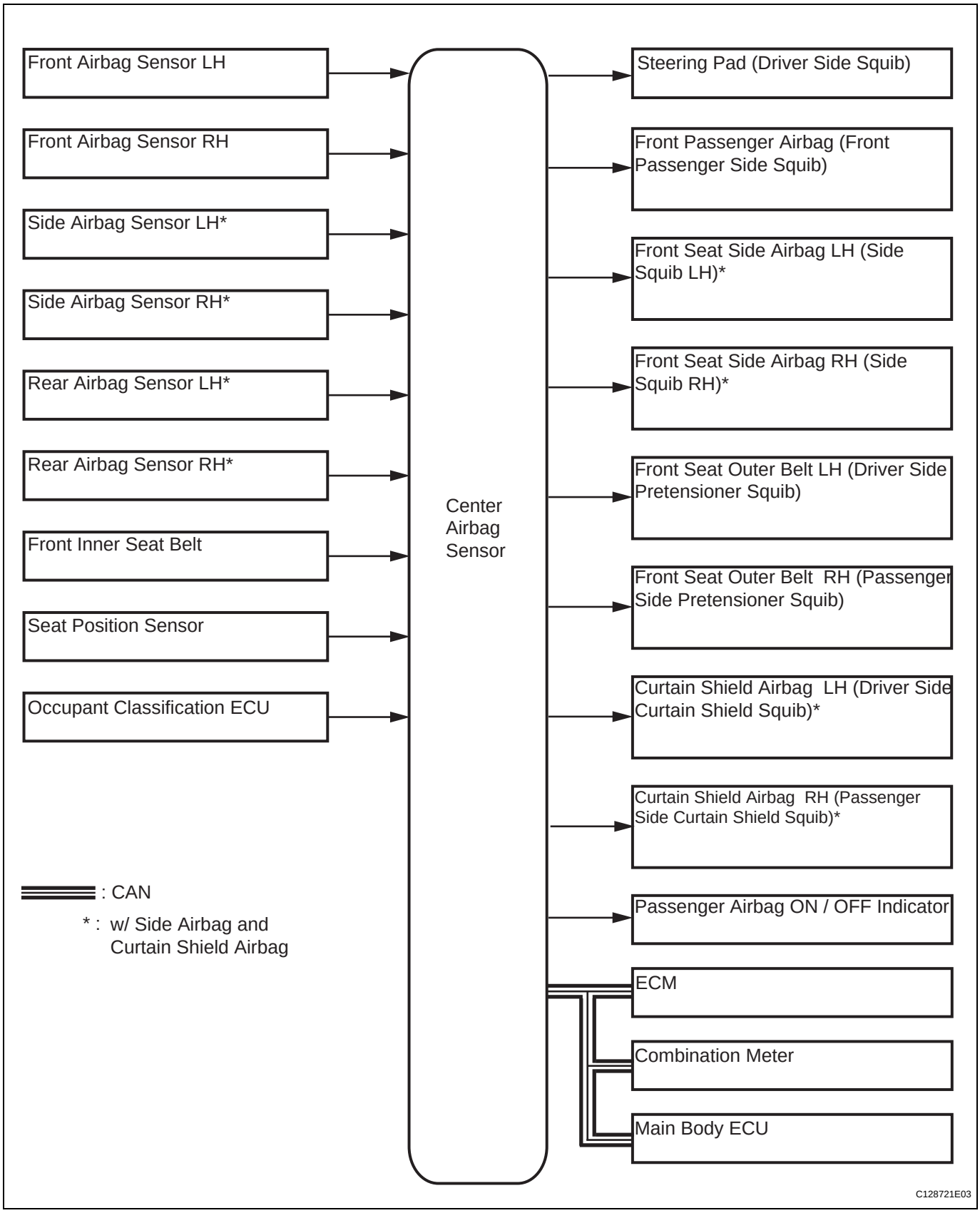
4. INSTALL FRONT DOOR SCUFF PLATE LH (See page IR-59)

5. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

6. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light (see page RS-34).

SYSTEM DIAGRAM



RS

SYSTEM DESCRIPTION

1. GENERAL

(a) In conjunction with an impact absorbing structure for a frontal collision, the SRS (Supplemental Restraint System) driver airbag, front passenger airbag and driver side knee airbag were designed to supplement seat belts in the event of a frontal collision in order to help reduce shock to the head, chest and knee of the driver and front passenger. This system is a 3-sensor type airbag system to detect the impact during a frontal collision using the center airbag sensor and front airbag sensors. It also operates the airbag system and seat belt pretensioner.

(b) In order to detect the extent of the collision during the initial stages of the collision in further detail, the front airbag sensors have been changed from mechanical type to electrical type deceleration sensors. Accordingly, the deployment of the driver airbag and front passenger airbag is controlled in two stages according to the severity of the impact.

(c) In conjunction with an impact absorbing structure for a side collision, the side airbag and curtain shield airbag were designed to help reduce shock to the driver and front passenger in the event of a side collision.

(d) A curtain shield airbag that helps reduce shock to the front and rear seat occupants with a single curtain shield airbag has been adopted. In conjunction with this system, the side airbag sensors have been installed at the bottom of the center pillars and rear airbag sensors have been installed at the bottom of the rear pillars.

(e) In this system, a front side collision is detected by the side airbag sensor in order to simultaneously deploy the side airbag. A rear side collision is detected by the rear airbag sensor and the center airbag sensor in order to deploy the side airbag and curtain shield airbag.

(f) The center airbag sensor sends the airbag deployment signal to the ECM through the CAN (Controller Area Network) to operate the fuel pump control.

2. CONSTRUCTION AND OPERATION

(a) FRONT AIRBAG SENSOR

(1) The front airbag sensors are installed on the right and left radiator supports.

(2) The front airbag sensor consists of the deceleration sensor.

(3) The deceleration sensor is built into the front airbag sensor, and the distortion that is created in the sensor is converted into an electric signal based on the vehicle deceleration rate during a frontal collision. Accordingly, the extent of the initial collision can be detected in detail.

(b) SIDE AIRBAG SENSOR

(1) The side airbag sensors are installed on the bottom of the right and left center pillars.

(2) The side airbag sensor consists of the deceleration sensor and ignition control circuit.

(3) The deceleration sensor is built into the side airbag sensor, and the distortion that is created in the sensor is converted into an electric signal based on the vehicle deceleration rate during a front side collision. Accordingly, the extent of the initial collision can be detected in detail.

(c) REAR AIRBAG SENSOR

(1) The rear airbag sensors are installed on the right and left rear pillars.

(2) The rear airbag sensor consists of the deceleration sensor and ignition control circuit.

(3) The deceleration sensor is built into the rear airbag sensor, and the distortion that is created in the sensor is converted into an electric signal based on the vehicle deceleration rate during a rear side collision. Accordingly, the extent of the initial collision can be detected in detail.

(d) CENTER AIRBAG SENSOR

(1) General

- The center airbag sensor is installed on the center floor under the console box.
- The center airbag sensor consists of the deceleration sensor, safing sensor, electronic safing sensor, ignition control circuit and diagnostic circuit.
- The center airbag sensor receives signals from the deceleration sensor and safing sensor built into the center airbag sensor and front airbag sensor. Then the center airbag sensor determines whether or not the driver airbag, front passenger airbag, driver side knee airbag and seat belt pretensioner should be activated, and diagnoses system malfunctions.
- The center airbag sensor causes the side airbag and the curtain shield airbag to deploy when receiving signals from the side and rear airbag sensor.

- The center airbag sensor receives signals from the deceleration sensor and the electronic safing sensor built into the center airbag sensor and the rear airbag sensor, and determines whether or not the side airbag and curtain shield airbag should be activated, and diagnoses system malfunctions.
- The center airbag sensor sends the airbag deployment signal to ECM through the CAN to operate the fuel pump control.

(2) Deceleration sensor and ignition control circuit
- The deceleration sensor is built into the center airbag sensor.
- The ignition control circuit performs calculations based on the signal output from the deceleration sensors of the center airbag sensor and front airbag sensor. If the calculated values are greater than the specified values, it activates the deployment operation.

(3) Safing sensor
The safing sensor is built into the center airbag sensor. During a frontal collision, the sensor turns on and outputs an ON signal to the center airbag sensor if a deceleration rate greater than the specified value is applied to the safing sensor.

(4) Electronic safing sensor
The electronic safing sensor is built into the center airbag sensor. During a side collision, the sensor turns on and outputs an ON signal to the center airbag sensor if a deceleration rate greater than the specified value is applied to the electronic safing sensor.

(5) Back-up power source
The back-up power source consists of a power supply capacitor and a DC-DC converter. When the power system does not function during a collision, the power supply capacitor discharges and supplies electric power to the system. The DC-DC converter operates as a boosting transformer when the battery voltage falls below a predetermined level.

(6) Diagnostic circuit
This circuit constantly diagnoses system malfunctions. When a malfunction is detected, it lights up the SRS warning light on the telltale light to inform the driver.

(7) Memory circuit
When a malfunction is detected in the diagnostic circuit, it is coded and stored in the memory circuit.

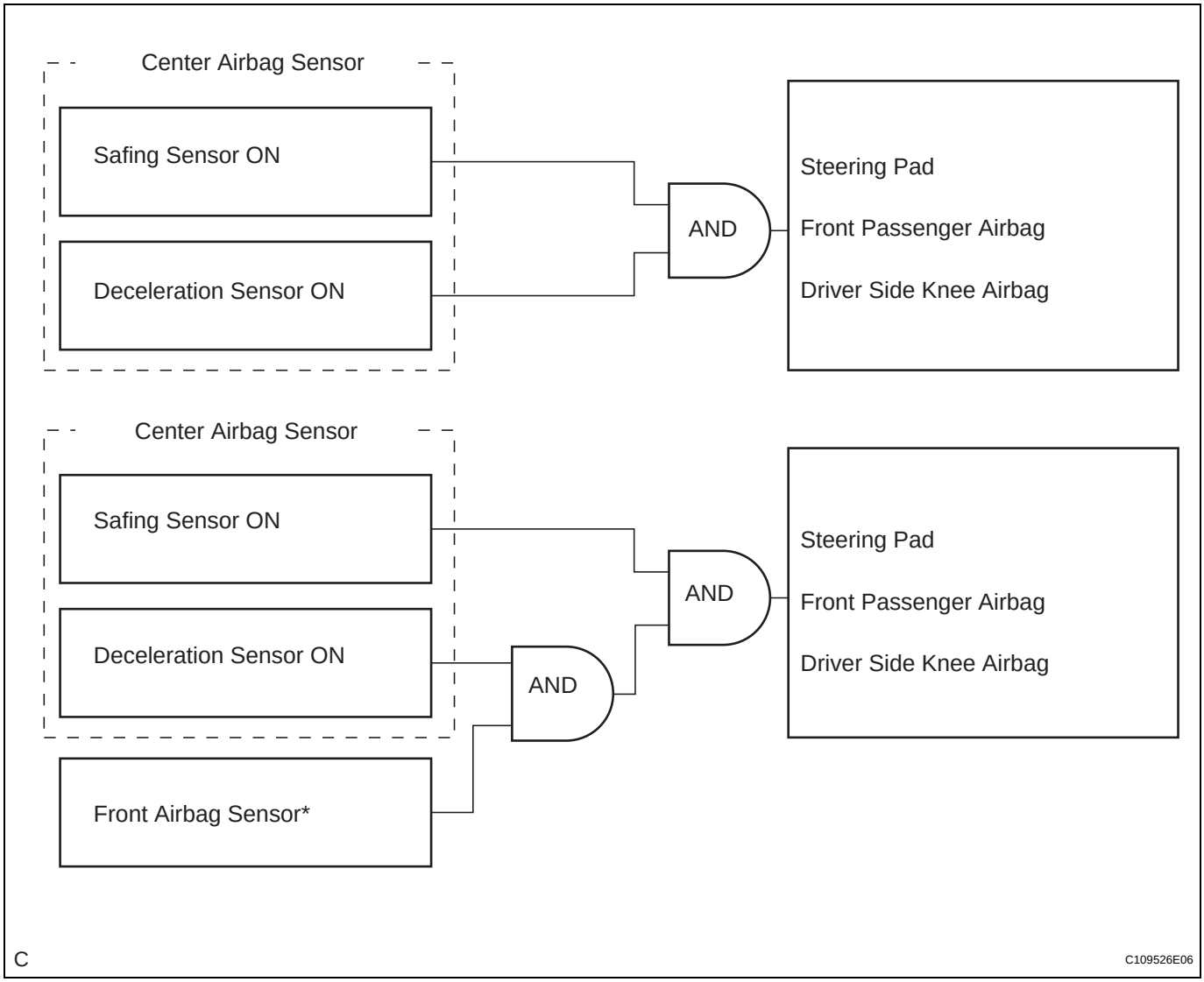
(e) SRS WARNING LIGHT

(1) The SRS warning light is located on the telltale light. It comes on to inform the driver of system trouble when a malfunction is detected in the self-diagnosis of the center airbag sensor. Under normal operating conditions when the ignition switch is turned on, it comes on for approximately 6 seconds and then goes off.

3. DEPLOYMENT CONDITION

When the vehicle collides and the shock is greater than the specified value, the SRS is activated automatically. The center airbag sensor includes the safing sensor and deceleration sensor. The safing sensor was designed to be turned on at a smaller deceleration rate than the deceleration sensor.

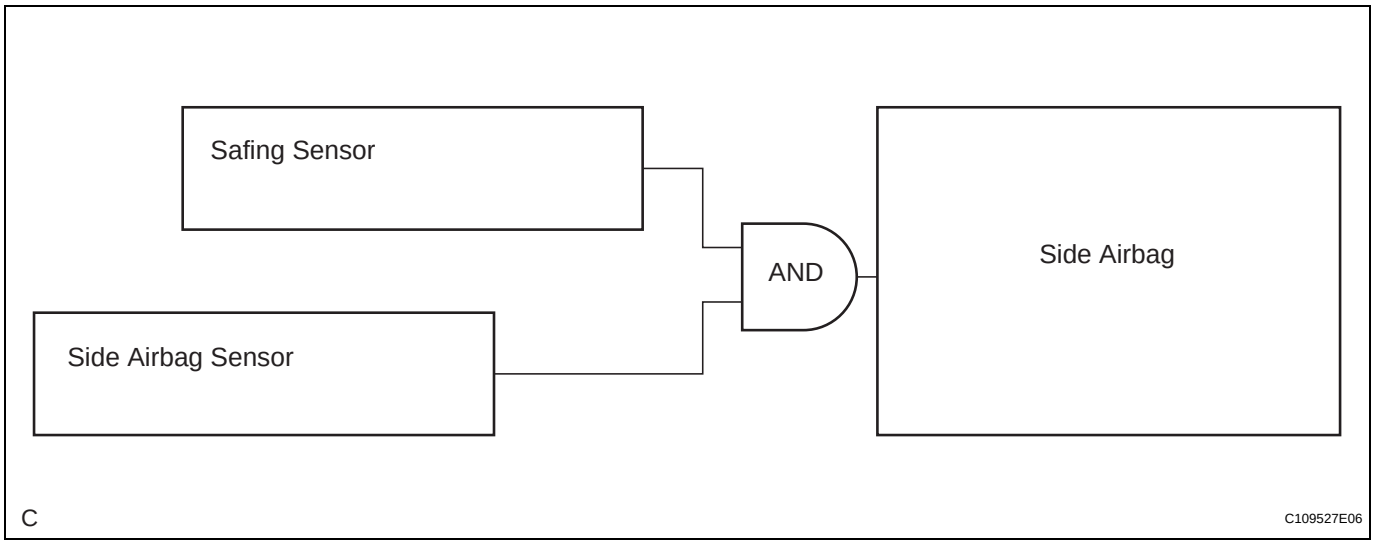
(a) The center airbag sensor determines whether or not deployment is necessary based on signals from the deceleration sensor and the front airbag sensor*. If the safing sensor turns on simultaneously, current flows to the squibs to deploy the SRS as shown in the illustration below.



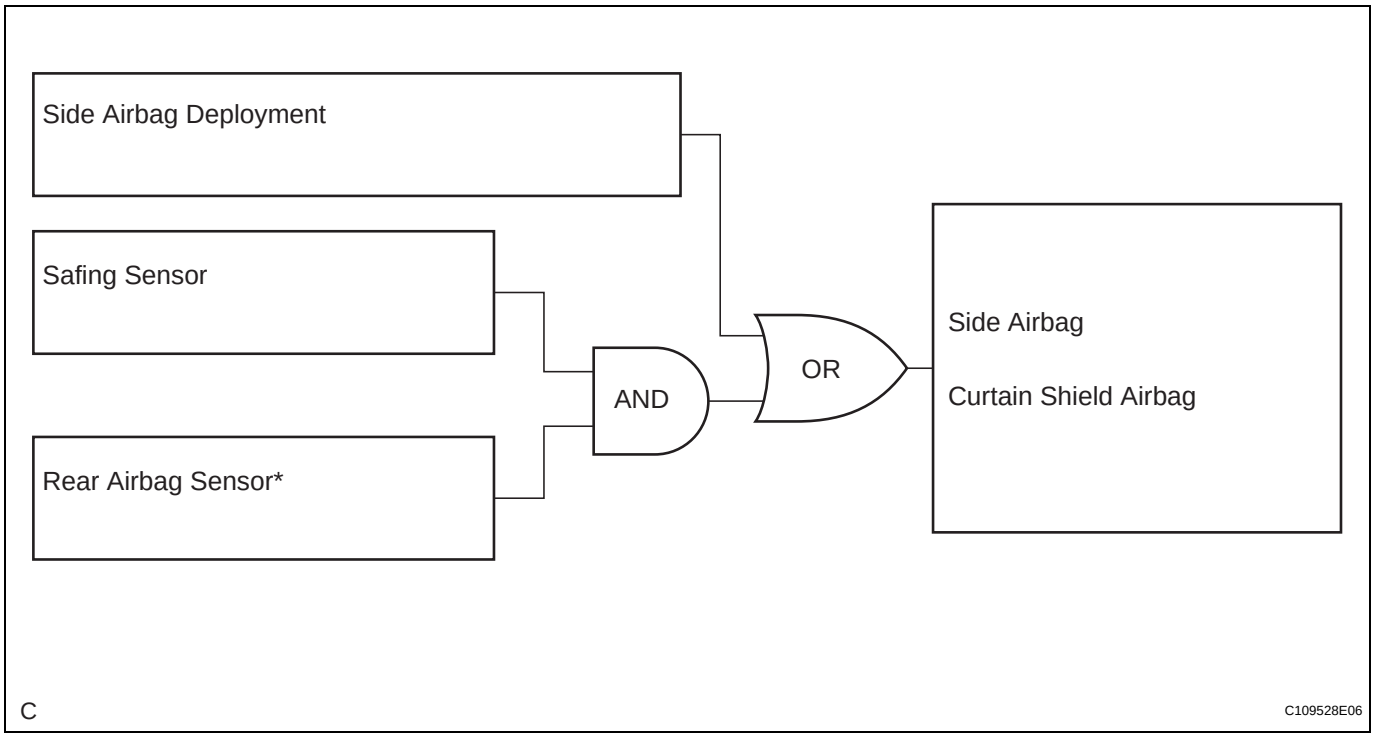
RS

HINT:
* : In case of a frontal collision, the ignition signal could be output with the deceleration sensor ON signal even without a signal from the front airbag sensor.

(b) The center airbag sensor determines whether or not deployment is necessary based on signals from the side airbag sensor. If the safing sensor turns on simultaneously, current flows to the squib to deploy the SRS as shown in the illustration below.



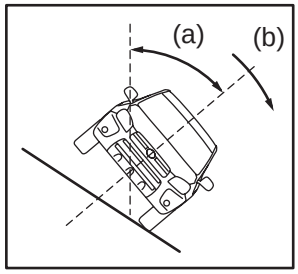
(c) The center airbag sensor determines whether or not deployment is necessary based on signals from the rear airbag sensor. If the safing sensor turns on simultaneously, current flows to the squib to deploy the SRS as shown in the illustration below*.

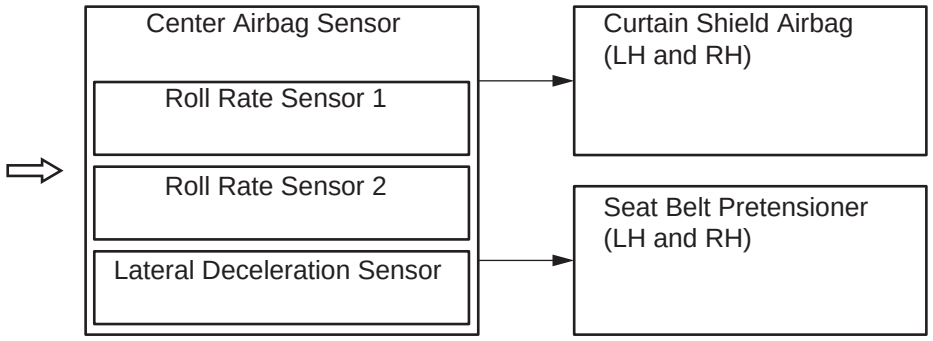


HINT:
*: If the side airbag deploys, the curtain shield airbag will also deploy, regardless of whether the signal is output from the rear airbag sensor.

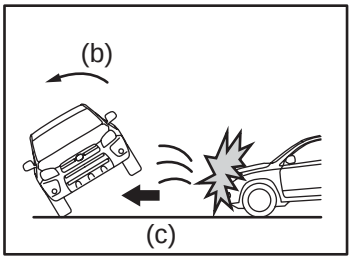
(d) The center airbag sensor contains a roll rate sensor and roll rate sensor (that determine the inclination angle the vehicle) and a lateral deceleration sensor (that determine the lateral force that is applied to the vehicle). These sensors detect the vehicle's roll angle (a), rotational speed (b), and lateral acceleration speed (c). Based on the information obtained from sensors, the airbag sensor makes an overall judgment of the vehicle's roll angle (a), rotational speed (b), and lateral acceleration speed (c). If the airbag sensor determines that the vehicle has rolled over due to cause other than the side collision, it deploys the right and left curtain shield airbag and the front right and left seat belt pretensioner.

Roll Over Detection

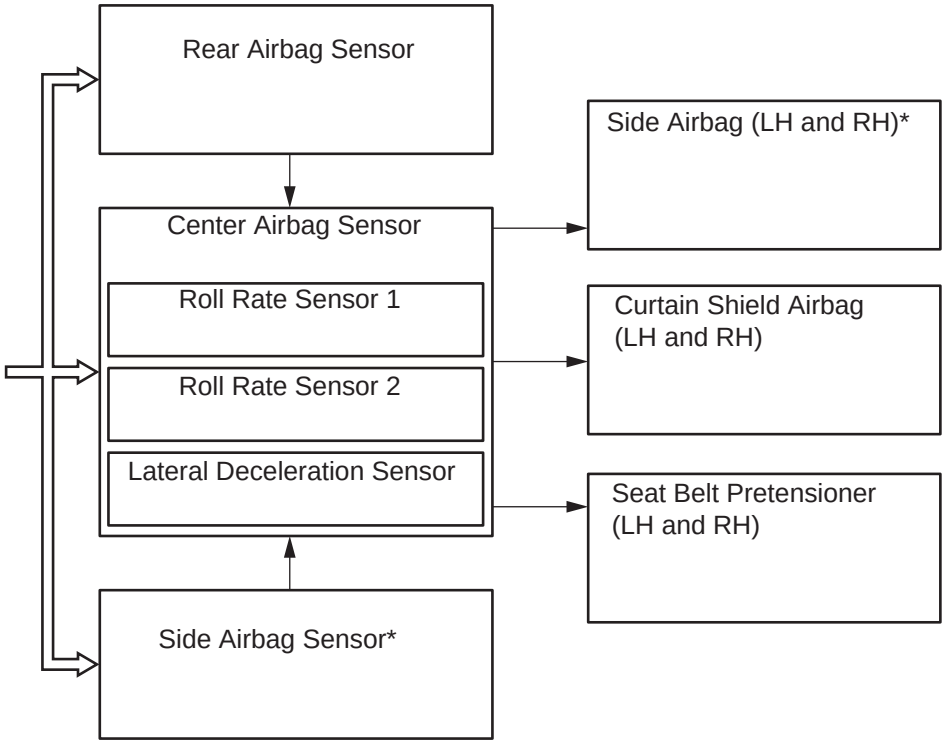




Side Collision and Rollover Detection



* Activate depending on the condition of the collision.



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HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use these procedures to troubleshoot the supplemental restraint system.
- *: Use the intelligent tester.

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.

3 **CHECK MULTIPLEX COMMUNICATION SYSTEM***

(a) Check the DTC.

Result

Result	Proceed to
DTC is not output	A
DTC is output	B

B → **CHECK MULTIPLEX COMMUNICATION SYSTEM**

A

4 **CHECK CAN COMMUNICATION SYSTEM**

(a) Check the DTC.

Result

Result	Proceed to
DTC is not output	A
DTC is output	B

B → **CHECK CAN COMMUNICATION CIRCUIT**

A

RS

5	WARNING LIGHT CHECK*

NEXT

6	CHECK FOR DTC (Present and Past DTCs)

(a) Check the DTC.

Result

Result	Proceed to
DTC is not output	A
DTC is output	B

B → PROBLEM SYMPTOMS TABLE

A

7	DTC CHART

NEXT

8	CIRCUIT INSPECTION

NEXT

9	REPAIR*

NEXT

10	CLEAR DTC (Present and Past DTCs)*

NEXT

11	CHECK FOR DTC (Present and Past DTCs)

(a) Check the DTC.

Result

Result	Proceed to
DTC is not output	A
DTC is output	B

B → Go to step 6

A

12	CONFIRMATION TEST

NEXT

END

PROBLEM SYMPTOMS TABLE

HINT:

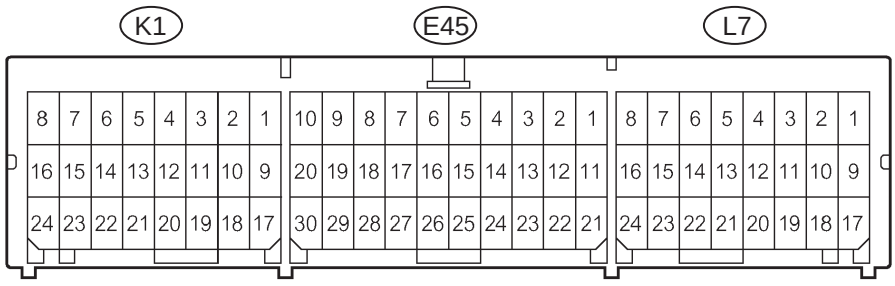
- Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
-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

Airbag system

Symptom	Suspected area	See page
1. The SRS warning light goes off after the primary check, but comes back on.	SRS Warning Light Remains ON	RS-226
2. With the ignition switch ON, the SRS warning light sometimes comes back on.	SRS Warning Light Remains ON	RS-226
3. The SRS warning light always comes on even when DTC is not output.	SRS Warning Light Remains ON	RS-226
1. With the ignition switch ON, the SRS warning light does not come on.	SRS Warning Light does not Come On	RS-230
1. Although an SRS warning light operates normally, DTC is output.	TC and CG Terminal Circuit	RS-233
2. Although terminals TC and CG of DLC3 are not connected, DTC is output.	TC and CG Terminal Circuit	RS-233

TERMINALS OF ECU

1. CENTER AIRBAG SENSOR ASSEMBLY (w/ Curtain Shield Airbag)



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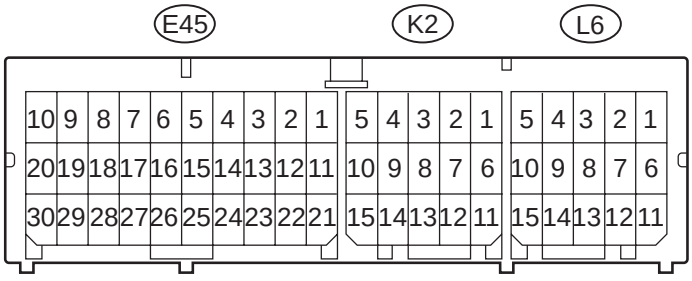
C109532E05

Terminal No.	Terminal Symbol	Destination
K1-1	SFD+	Front seat side airbag assembly LH (Side squib LH)
K1-2	SFD-	Front seat side airbag assembly LH (Side squib LH)
K1-3	ICD-	Curtain shield airbag assembly LH (Driver side curtain shield squib)
K1-4	ICD+	Curtain shield airbag assembly LH (Driver side curtain shield squib)
K1-5	PD+	Front seat outer belt assembly LH (Driver side pretensioner squib)
K1-6	PD-	Front seat outer belt assembly LH (Driver side pretensioner squib)
K1-9	DSP+	Seat position sensor
K1-10	DBE+	Front seat inner belt assembly LH
K1-17	DSP-	Seat position sensor
K1-18	DBE-	Front seat inner belt assembly LH
K1-23	BBD-	Side airbag sensor LH
K1-24	BBD+	Side airbag sensor LH
E45-1	P2+	Front passenger airbag (Front passenger side squib 2nd step)
E45-2	P2-	Front passenger airbag (Front passenger side squib 2nd step)
E45-3	P-	Front passenger airbag (Front passenger side squib)
E45-4	P+	Front passenger airbag (Front passenger side squib)
E45-5	D+	Steering pad (Driver side squib)
E45-6	D-	Steering pad (Driver side squib)

Terminal No.	Terminal Symbol	Destination
E45-7	D2-	Steering pad (Driver side squib 2nd step)
E45-8	D2+	Steering pad (Driver side squib 2nd step)
E45-13	CANH	CAN
E45-16	SIL	DLC3
E45-17	P-AB	Front passenger seat belt warning light (Passenger airbag ON/OFF indicator)
E45-21	IG2	IGN fuse
E45-22	CANL	CAN
E45-23	PAON	Front passenger seat belt warning light (Passenger airbag ON/OFF indicator)
E45-25	E1	Ground
E45-26	E2	Ground
E45-27	-SR	Front airbag sensor RH
E45-28	-SL	Front airbag sensor LH
E45-29	+SR	Front airbag sensor RH
E45-30	+SL	Front airbag sensor LH
L7-3	PP-	Front seat outer belt assembly RH (Front passenger side pretensioner squib RH)
L7-4	PP+	Front seat outer belt assembly RH (Front passenger side pretensioner squib RH)
L7-5	ICP+	Curtain shield airbag assembly RH (Curtain shield squib RH)
L7-6	ICP-	Curtain shield airbag assembly RH (Curtain shield squib RH)
L7-7	SFP-	Front seat side airbag assembly RH (Side squib RH)
L7-8	SFP+	Front seat side airbag assembly RH (Side squib RH)
L7-16	FSP+	Occupant classification ECU
L7-17	BBP+	Side airbag sensor RH
L7-18	BBP-	Side airbag sensor RH
L7-24	FSP-	Occupant classification ECU

RS

2. CENTER AIRBAG SENSOR ASSEMBLY (w/o Curtain Shield Airbag)



C131032E02

Terminal No.	Terminal Symbol	Destination
E45-1	P2+	Front passenger airbag (Front passenger side squib 2nd step)
E45-2	P2-	Front passenger airbag (Front passenger side squib 2nd step)
E45-3	P-	Front passenger airbag (Front passenger side squib)
E45-4	P+	Front passenger airbag (Front passenger side squib)
E45-5	D+	Steering pad (Driver side squib)
E45-6	D-	Steering pad (Driver side squib)
E45-7	D2-	Steering pad (Driver side squib 2nd step)
E45-8	D2+	Steering pad (Driver side squib 2nd step)
E45-13	CANH	CAN
E45-16	SIL	DLC3
E45-17	P-AB	Front passenger seat belt warning light (Passenger airbag ON/OFF indicator)
E45-21	IG2	IGN fuse
E45-22	CANL	CAN
E45-23	PAON	Front passenger seat belt warning light (Passenger airbag ON/OFF indicator)
E45-25	E1	Ground
E45-26	E2	Ground
E45-27	-SR	Front airbag sensor RH
E45-28	-SL	Front airbag sensor LH
E45-29	+SR	Front airbag sensor RH
E45-30	+SL	Front airbag sensor LH
K2-1	PD-	Front seat outer belt assembly LH (Driver side pretensioner squib)
K2-2	PD+	Front seat outer belt assembly LH (Driver side pretensioner squib)
K2-11	DBE+	Front seat inner belt assembly LH
K2-12	DBE-	Front seat inner belt assembly LH
K2-13	DSP-	Seat position sensor
K2-14	DSP+	Seat position sensor
L6-4	PP+	Front seat outer belt assembly RH (Front passenger side pretensioner squib RH)
L6-5	PP-	Front seat outer belt assembly RH (Front passenger side pretensioner squib RH)
L6-12	FSP+	Occupant classification ECU
L6-13	FSP-	Occupant classification ECU

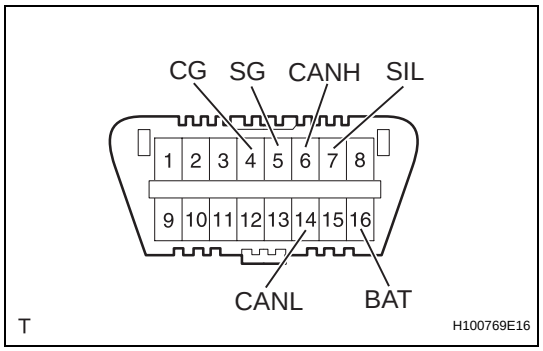
DIAGNOSIS SYSTEM

1. DESCRIPTION

The center airbag sensor controls the functions of the Supplemental Restraint System (SRS) on the vehicle. Data of the SRS can be read in the Data Link Connector 3 (DLC3) of the vehicle. When the system seems to be malfunctioning, use the intelligent tester to check for a malfunction and perform repairs.

2. CHECK DLC3

(a) The ECU uses ISO 15765-4 for communication. The terminal arrangement of the DLC3 complies with ISO 15031-3 and matches the ISO 15765-4 format.



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
CANH (6) - CANL (14)	HIGH-level CAN bus line	Ignition switch OFF*	54 to 69 Ω
CANH (6) - Battery positive	HIGH-level CAN bus line	Ignition switch OFF*	1 MΩ or higher
CANH (6) - CG (4)	HIGH-level CAN bus line	Ignition switch OFF*	200 Ω or higher
CANL (14) - Battery positive	LOW-level CAN bus line	Ignition switch OFF*	1 MΩ or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Ignition switch OFF*	200 Ω or higher

NOTICE:

***: Before measuring the resistance, leave the vehicle as is for at least 1 minute and do not operate the ignition switch, any switches or doors.**

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 (with CAN VIM) 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.

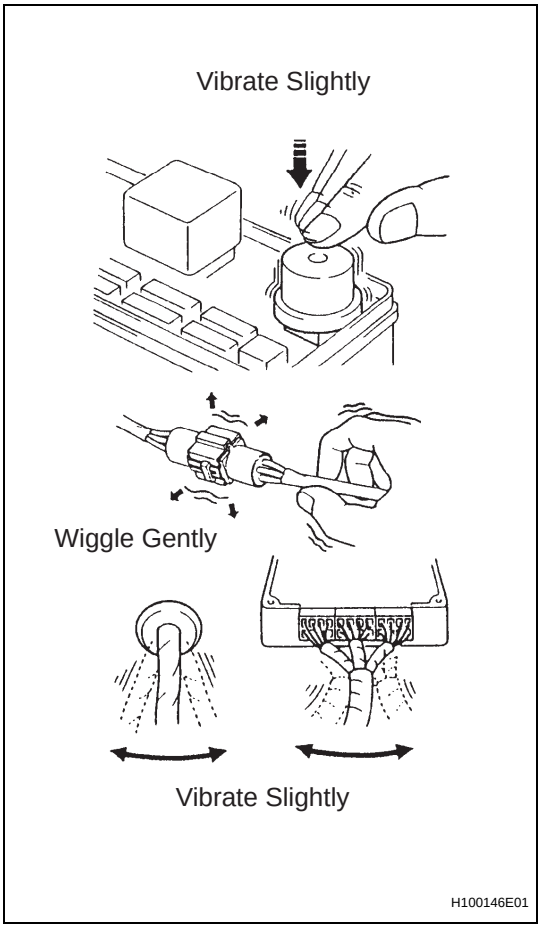
- If communication is normal when the tester is connected to another vehicle, inspect the DLC3 on the original vehicle.
- If communication is still not possible when the tool is connected to another vehicle, the problem is probably in the tester itself. Consult the Service Department listed in the tester's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

3. SYMPTOM SIMULATION

HINT:

The most difficult case in troubleshooting is when no problem symptoms occur. In such a case, a through problem analysis must be carried out. A simulation of the same or similar conditions and environment in which the problem occurred in the customer's vehicle should be carried out. No matter how much skill or experience a technician has, troubleshooting without confirming the problem symptoms will lead to important repairs being overlooked and mistakes or delays.

This leads to a standstill in troubleshooting.



(a) Simulation method: When vibration seems to be the major cause

HINT:

Perform this method only during the primary check period (for approximately 6 seconds after the ignition switch is turned ON).

(1) Use your finger to slightly vibrate the part of the sensor considered to be the problem cause, and check whether the malfunction recurs.

HINT:

Wiggling the relays too strongly may result in open relays.

(2) Gently wiggle the connector.

(3) Slightly shake the wire harness vertically and horizontally.

The connector joint and fulcrum of the vibration are the major areas to be checked thoroughly.

4. FUNCTION OF SRS WARNING LIGHT

(a) Primary check

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

HINT:

If any malfunctions are detected during the primary check, the SRS warning light remains on even after the primary check period has elapsed.

(b) Constant check

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

HINT:

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

- The SRS warning light comes on.

RS

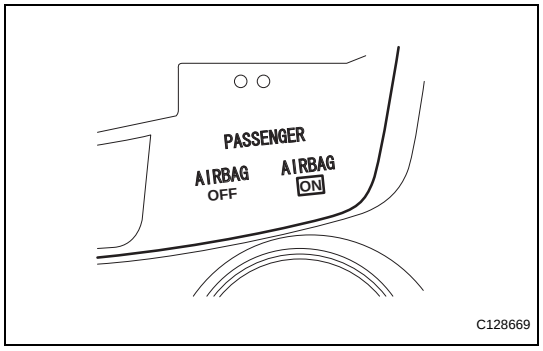
- The SRS warning light goes off, and then comes on again. This blinking pattern indicates a source voltage drop. The SRS warning light goes off 10 seconds after the source voltage returns to normal.

(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 ON).

(2) When the airbag system malfunctions:
- The SRS warning light blinks after the primary check period has elapsed.
- The SRS warning light goes off after the primary check, but comes on again during the constant check.
- The SRS warning light remains off even after the ignition switch is turned from LOCK to ON. However, if malfunctions such as an open circuit have occurred in the wire harness between the meter and ECU, the warning light comes on 10 seconds after the ignition switch is turned ON.

HINT:
The center airbag sensor keeps the SRS warning light on if any malfunctions have been detected in the airbag system.



5. FUNCTION OF PASSENGER AIRBAG ON/OFF INDICATOR

(a) Initial check

(1) Turn the ignition switch ON.

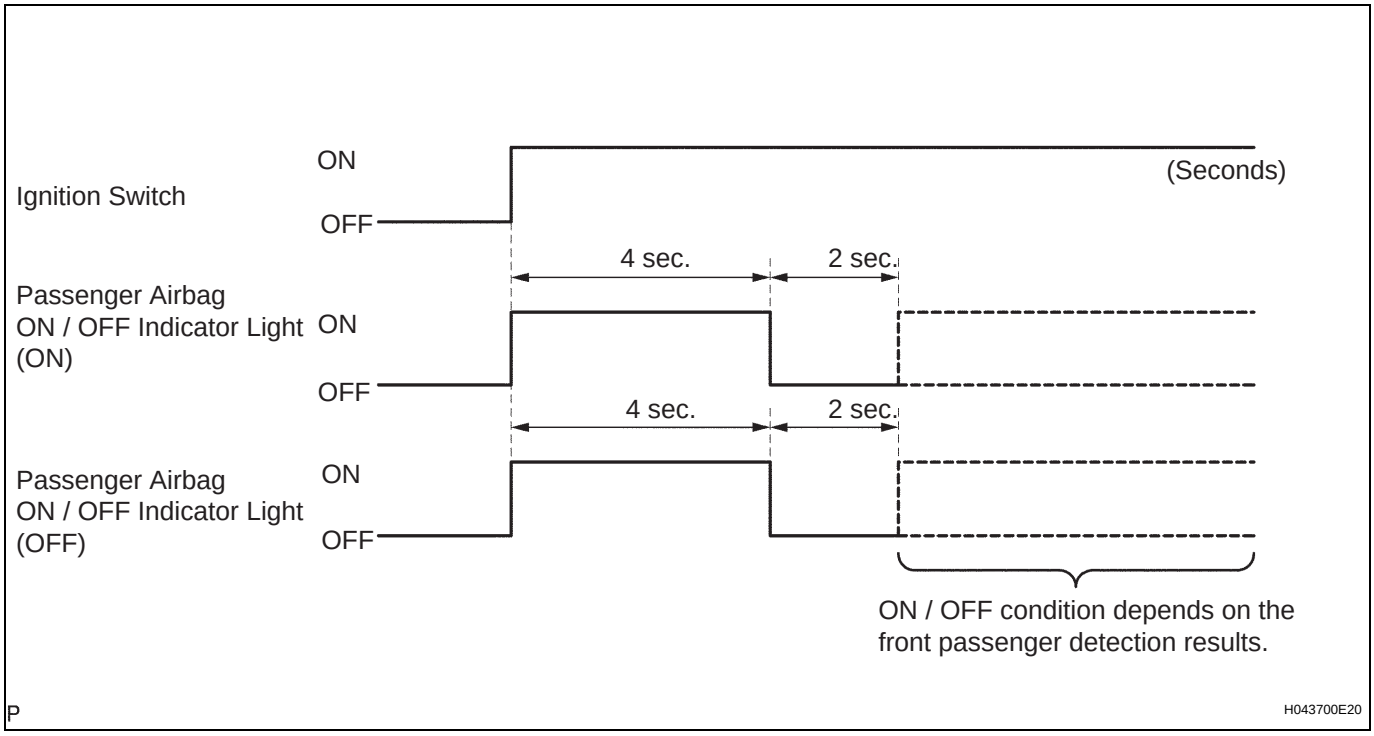
(2) The passenger airbag ON / OFF indicator comes on for approximately 4 seconds, then goes off for approximately 2 seconds.

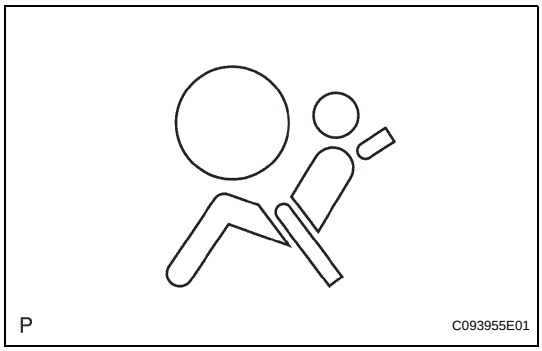
(3) Approximately 6 seconds after the ignition switch is turned ON, the passenger airbag ON / OFF indicator operates in accordance with the conditions listed below.

RS

Condition	ON Indicator	OFF Indicator
Vacant	OFF	OFF
Adult is seated	ON	OFF
Child is seated	OFF	ON
Child restraint system is set	OFF	ON
Front passenger occupant classification system failure	OFF	ON

HINT:
The passenger airbag ON / OFF indicator operates as shown in the timing chart below in order to check the indicator light circuit.





RS

6. SRS WARNING LIGHT CHECK

(a) Turn the ignition switch ON, 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 ON (constant check).

HINT:

When any of the following symptoms occur, refer to the Problem Symptoms Table (see page RS-34).

- The SRS warning light comes on occasionally after the primary check period has elapsed.
- Even when the SRS warning light comes on, no DTCs are set.
- Even when the ignition switch is turned from OFF to ON, the SRS warning light remains off.

7. ACTIVATION PREVENTION MECHANISM

(a) FUNCTION OF ACTIVATION PREVENTION MECHANISM

(1) An activation prevention mechanism is built into the connector (on the center airbag sensor a side) of the airbag system squib circuit to prevent accidental airbag activation.

(2) This mechanism closes the circuit when the connector is disconnected by bringing the short spring into contact with the terminals and shutting off external electricity to prevent accidental airbag activation.

(b) RELEASE METHOD OF ACTIVATION PREVENTION MECHANISM

(1) To release the activation prevention mechanism, insert a piece of paper, with the same thickness as the male terminal (approximately 0.5 mm [0.020 in.]), between the terminals and the short spring to break the connection.

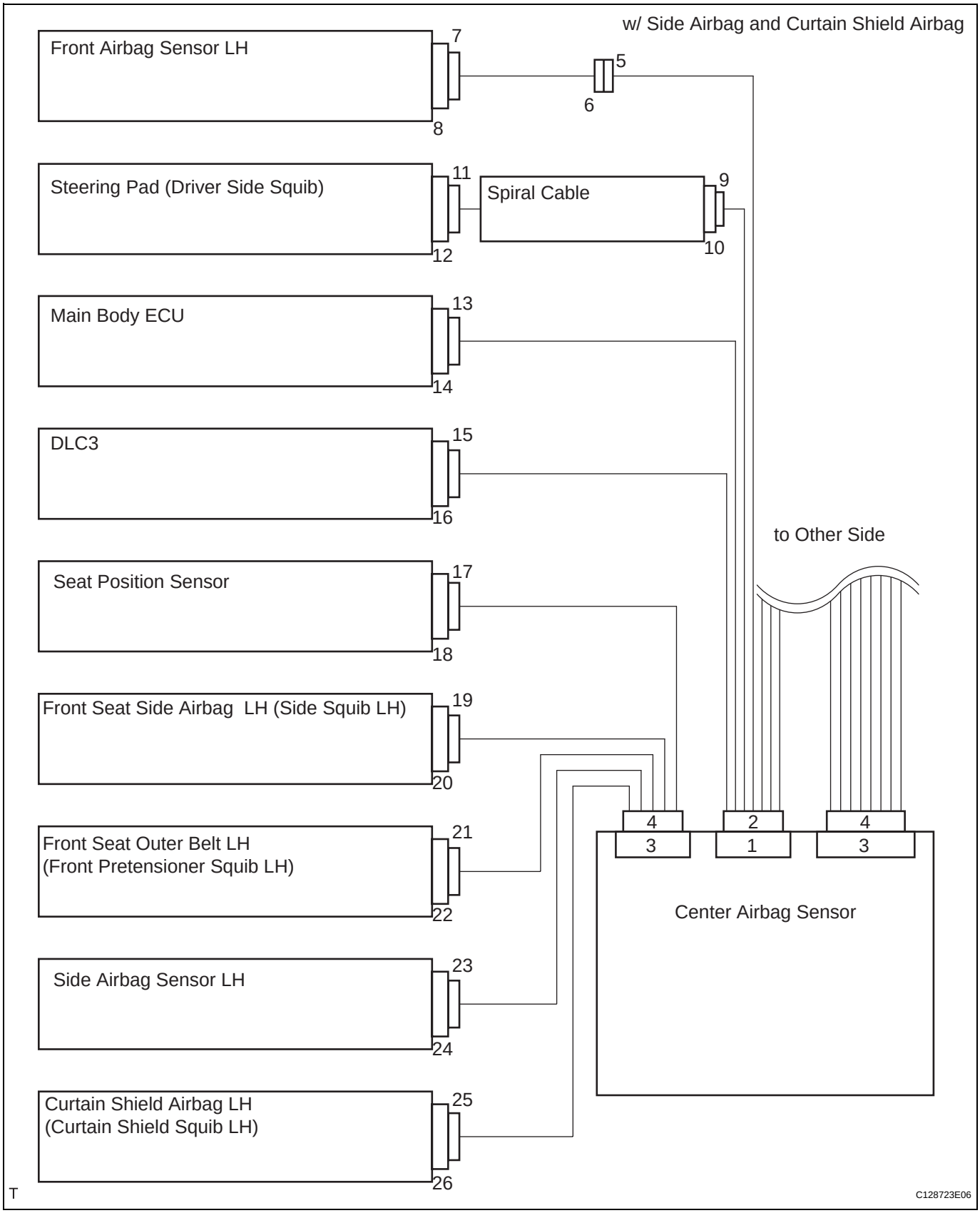
(2) Refer to the illustrations below concerning connectors to utilize the activation prevention mechanism and its release method.

CAUTION:

Never release the activation prevention mechanism on the squib connector even when inspecting with the squib disconnected.

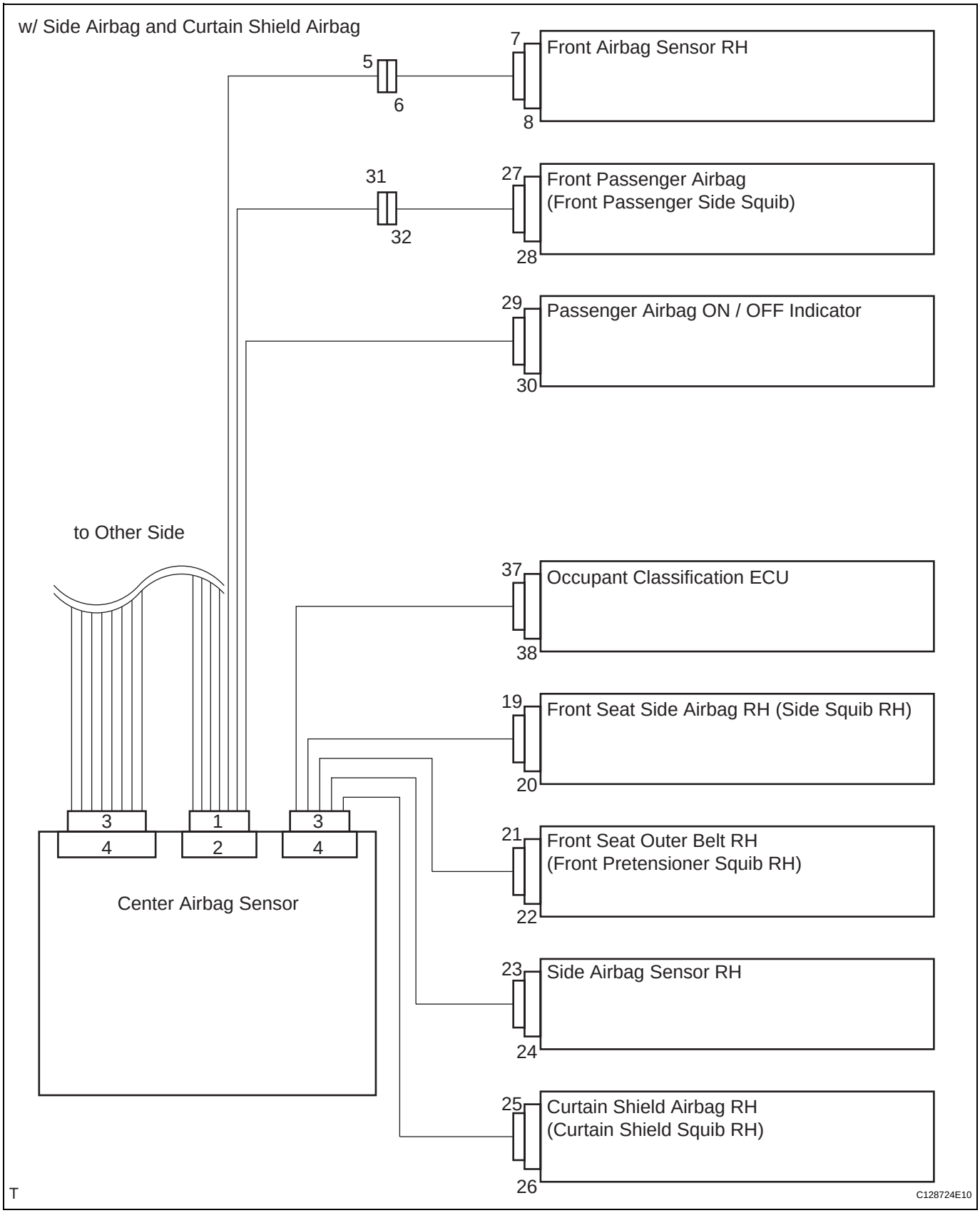
NOTICE:

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


w/ Side Airbag and Curtain Shield Airbag
Front Airbag Sensor LH
7
8
5
6
Steering Pad (Driver Side Squib)
11
12
Spiral Cable
9
10
Main Body ECU
13
14
DLC3
15
16
to Other Side
Seat Position Sensor
17
18
Front Seat Side Airbag LH (Side Squib LH)
19
20
Front Seat Outer Belt LH
(Front Pretensioner Squib LH)
21
22
Side Airbag Sensor LH
23
24
Curtain Shield Airbag LH
(Curtain Shield Squib LH)
25
26
4
3
2
1
4
3
Center Airbag Sensor
C128723E06

RS

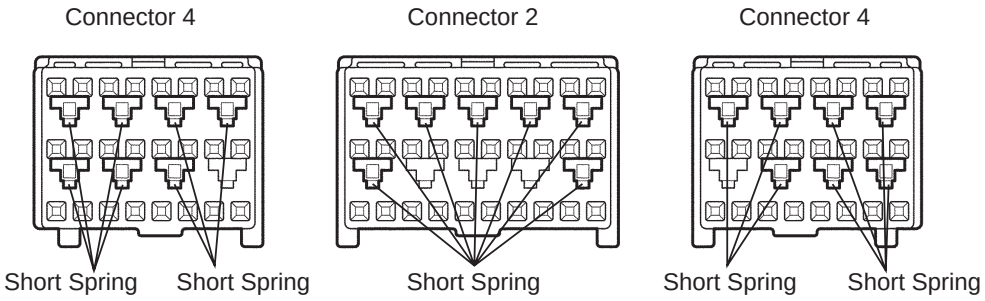
T

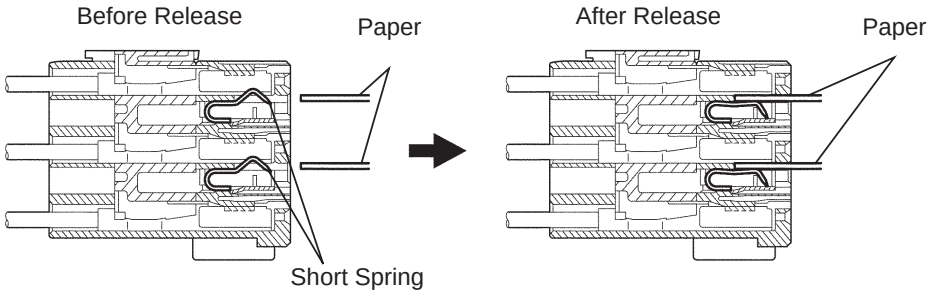

w/ Side Airbag and Curtain Shield Airbag
5
6
7
8
Front Airbag Sensor RH
31
32
27
28
Front Passenger Airbag
(Front Passenger Side Squib)
29
30
Passenger Airbag ON / OFF Indicator
to Other Side
37
38
Occupant Classification ECU
19
20
Front Seat Side Airbag RH (Side Squib RH)
3
4
1
2
3
4
Center Airbag Sensor
21
22
Front Seat Outer Belt RH
(Front Pretensioner Squib RH)
23
24
Side Airbag Sensor RH
25
26
Curtain Shield Airbag RH
(Curtain Shield Squib RH)
T
C128724E10

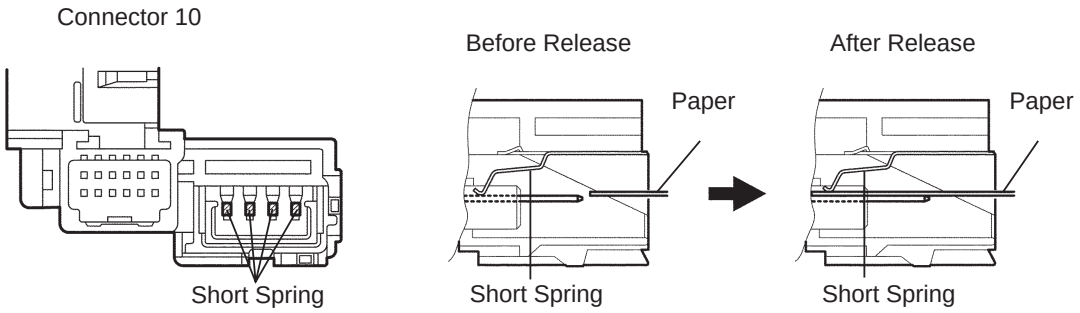
RS

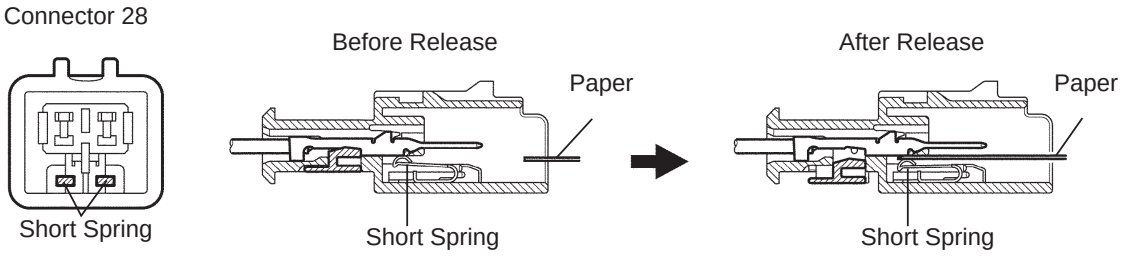
w/ Side Airbag and Curtain Shield Airbag

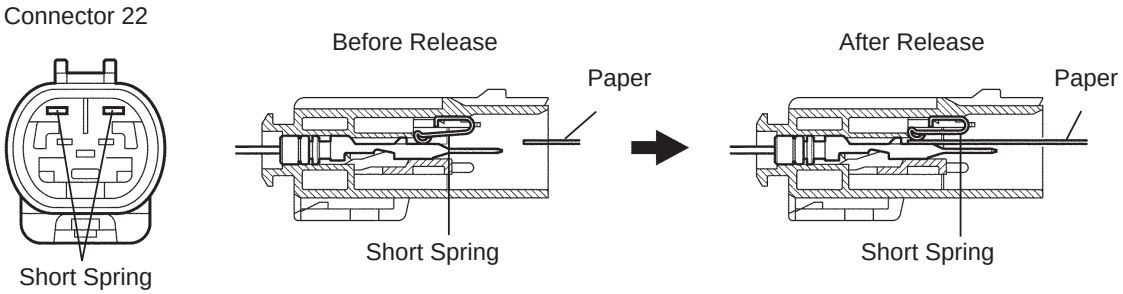
Center Airbag Sensor Connector







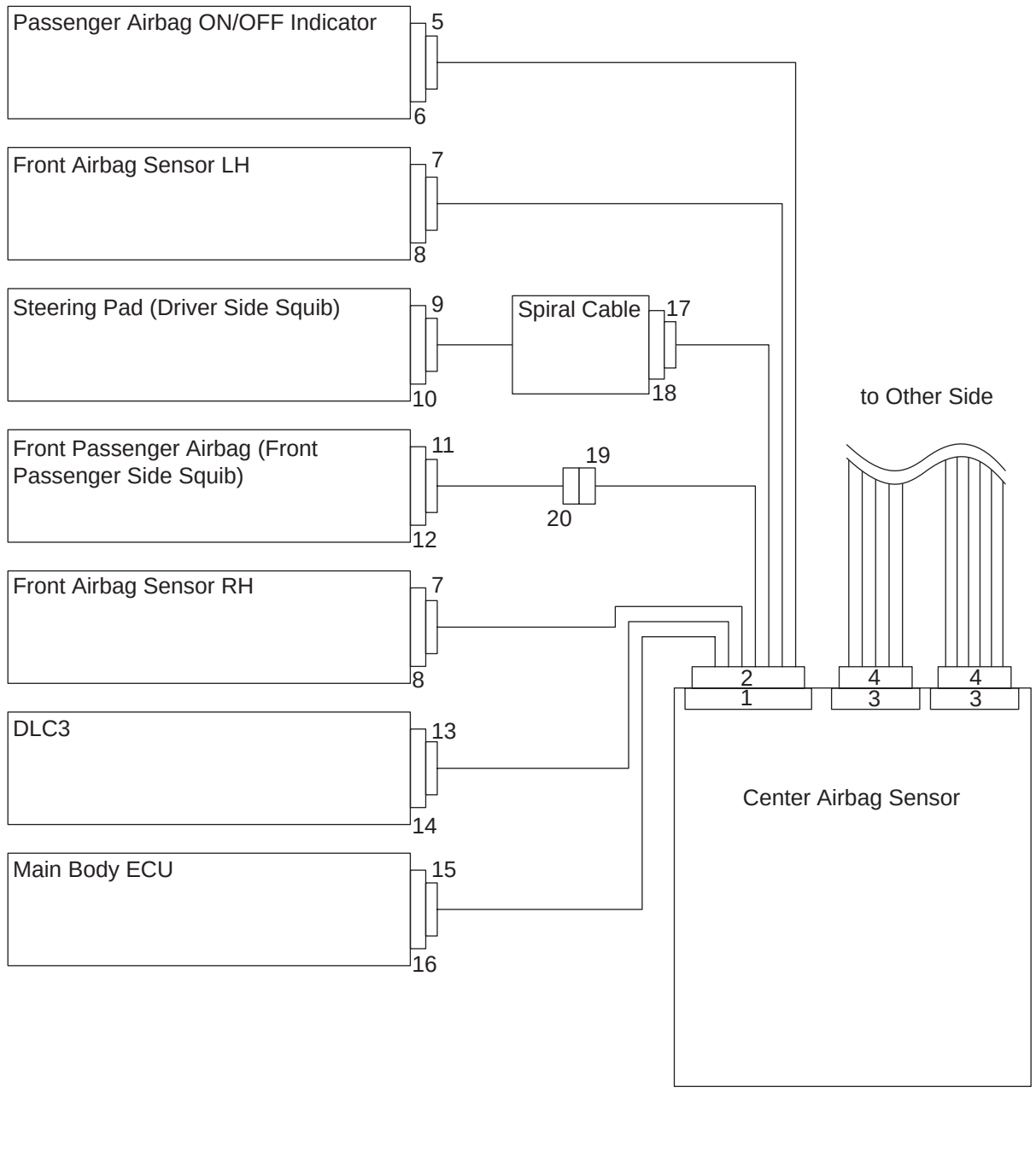




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RS

w/o Side Airbag and Curtain Shield Airbag

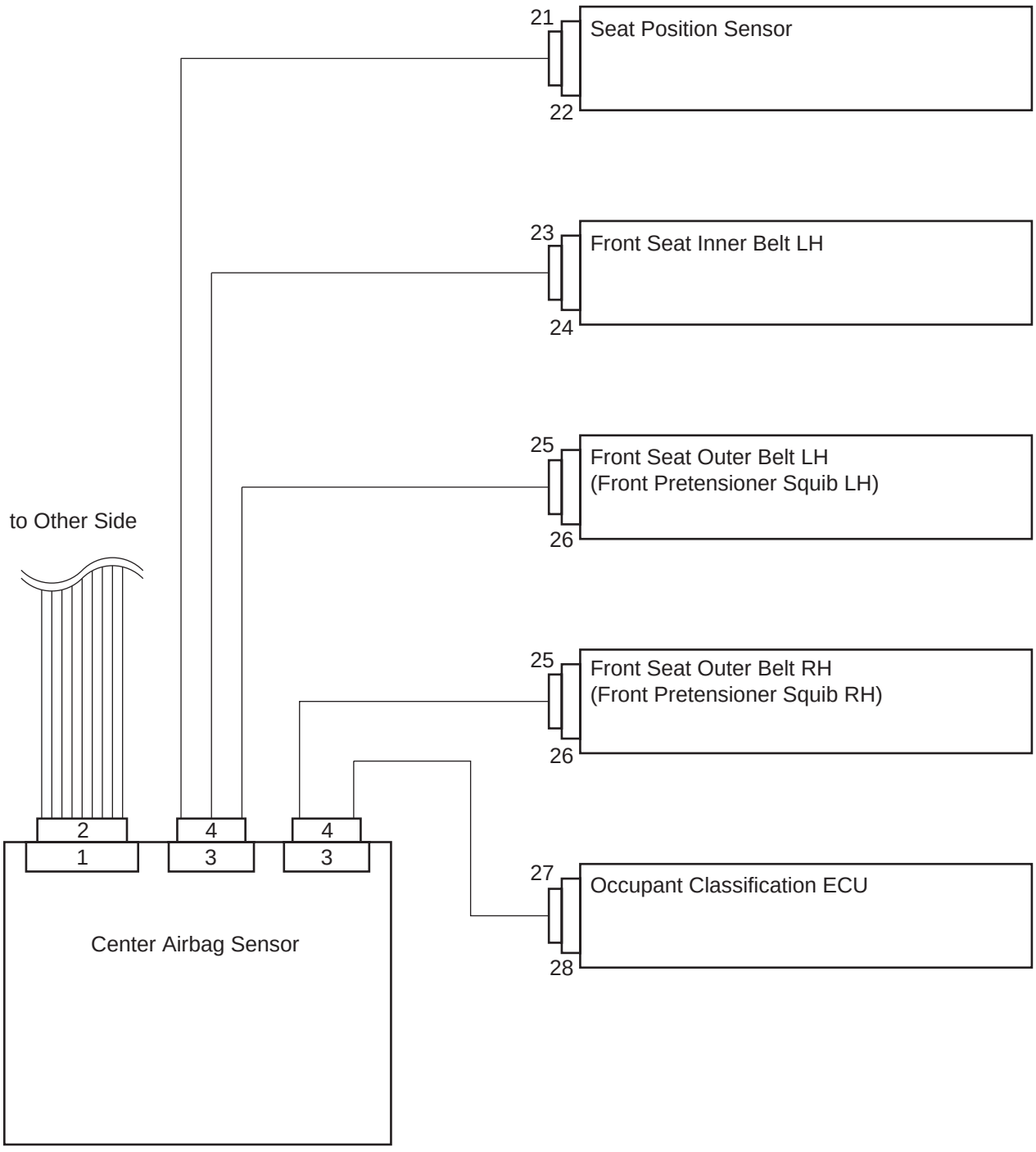


RS

Y

C128726E06

w/o Side Airbag and Curtain Shield Airbag



RS

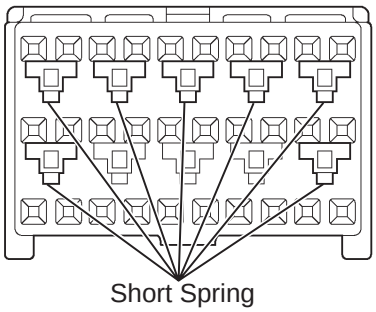
T

C128725E05

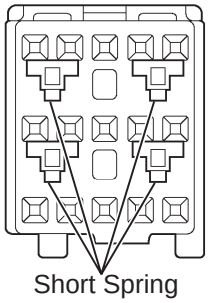
w/o Side Airbag and Curtain Shield Airbag

Center Airbag Sensor Connector

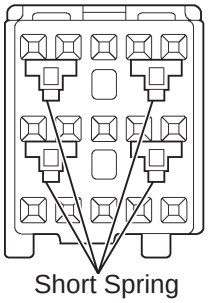
Connector 2



Connector 4

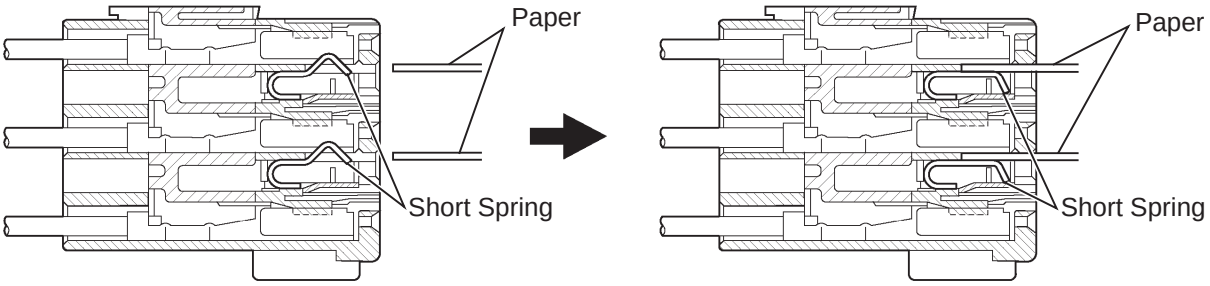


Connector 4



Before Release

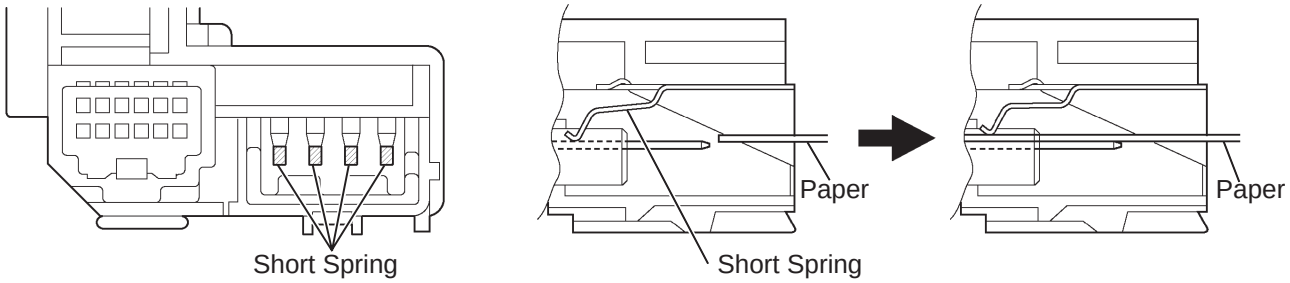
After Release



Connector 18

Before Release

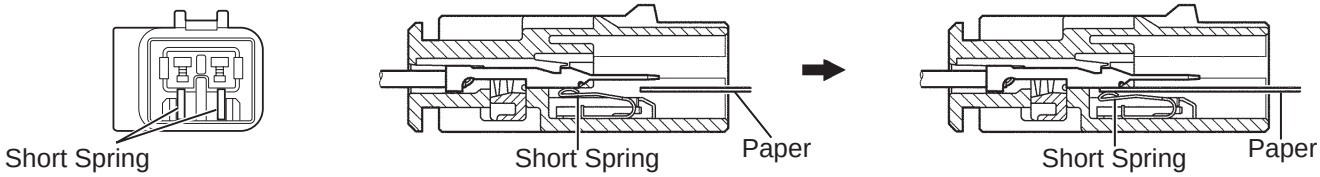
After Release



Connector 12

Before Release

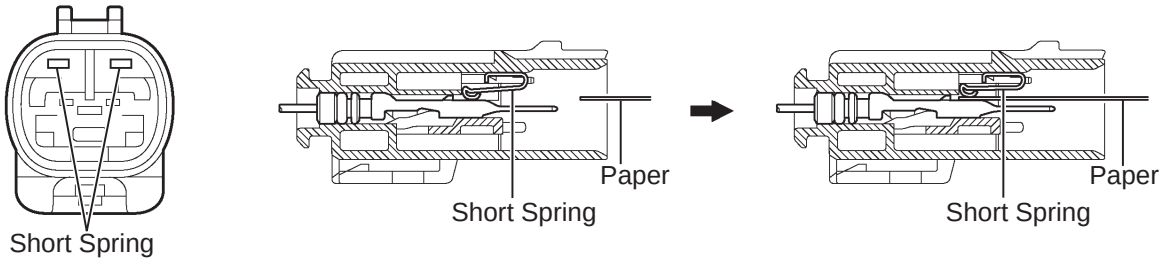
After Release



Connector 26

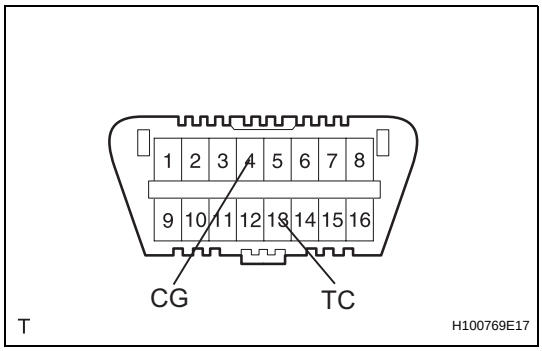
Before Release

After Release



H100199E06

RS



DTC CHECK / CLEAR

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

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

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

(2) Using SST, connect terminals 13(TC) and 4(CG) of the DLC3.

SST 09843-18040

NOTICE:

Connect the terminals to the correct positions to avoid a malfunction.

(b) Check the DTCs (Past trouble code)

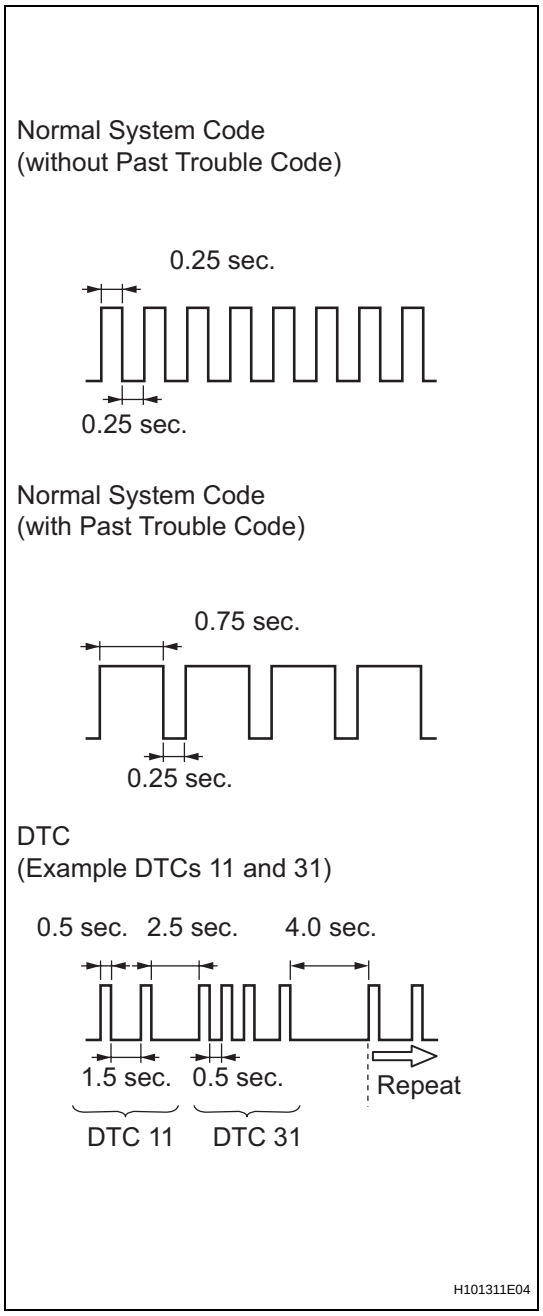
(1) Using SST, connect terminals TC and 4(CG) of the DLC3.

SST 09843-18040

NOTICE:

Connect the terminals to the correct positions to avoid a malfunction.

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



(c) Read the DTCs.

(1) Read the blinking patterns of the DTCs. As examples, the blinking patterns for the normal system code and DTCs 11 and 31 are shown in the illustration to the left.

- Normal system code indication (without past trouble code):
  The light blinks twice per second.
- Normal system code indication (with past trouble code):
  When the past trouble code is stored in the center airbag sensor, the light blinks only once per second.
- Trouble code indication:
  The first blinking indicates the first DTC. The second blinking occurs after a 1.5 second pause.

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 then 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" procedures (see page RS-233).

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 13(13(TC)) and 4(CG) of the DLC3, and then turn the ignition switch ON.

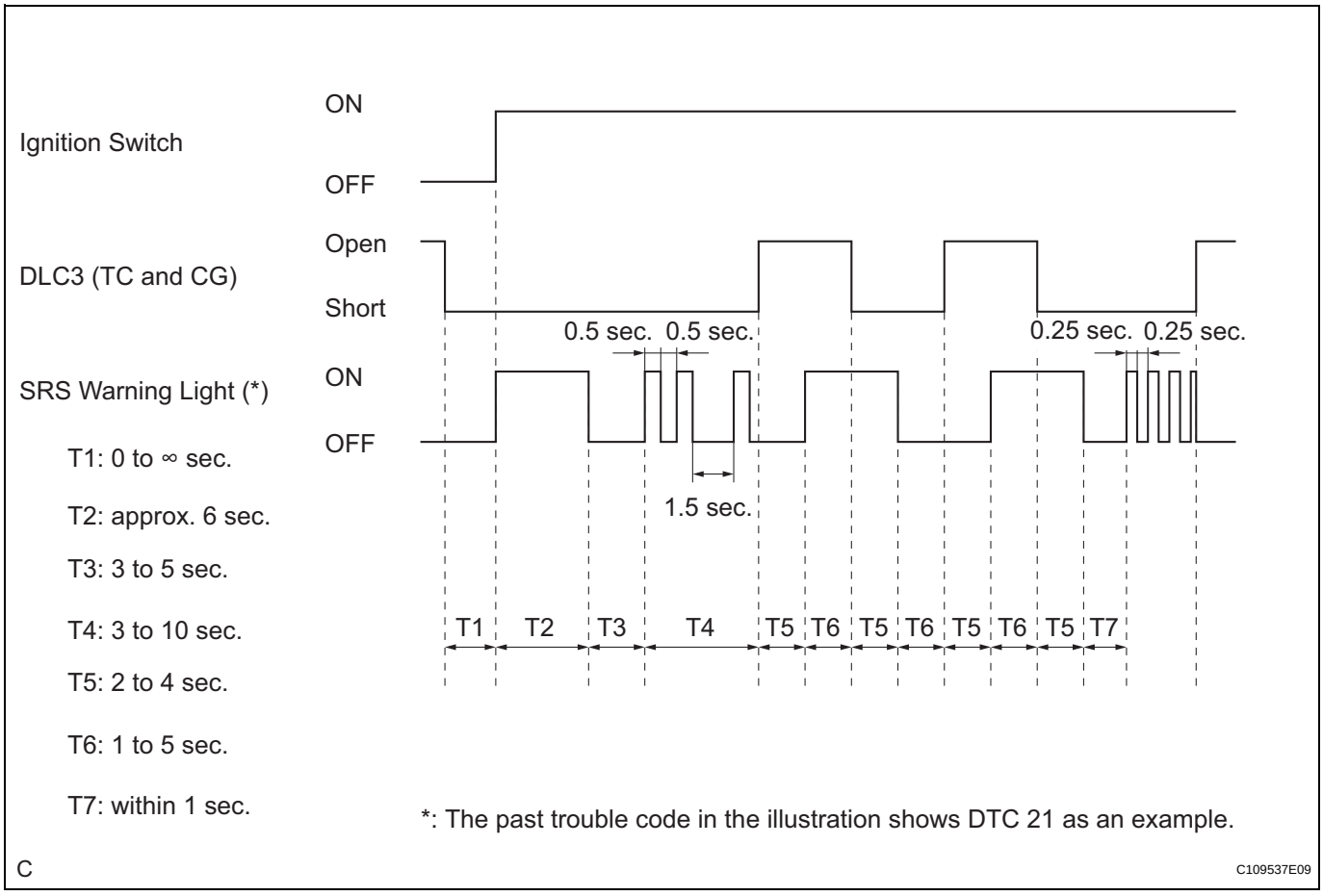
SST 09843-18040

(3) Disconnect terminal 13(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.

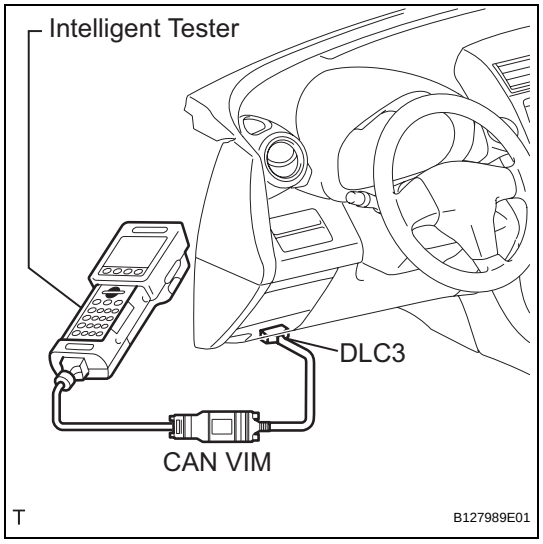
(4) Within 2 to 4 seconds after the SRS warning light comes on, connect terminals 13(TC) and 4(CG) of the DLC3.

(5) The SRS warning light should go off within 2 to 4 seconds after connecting terminals 13(TC) and 4(CG) of the DLC3. Then, disconnect terminal 13(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 13(TC). Then, reconnect terminals 13(TC) and 4(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 13(TC) and 4(CG) of the DLC3. Also check if 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.



RS

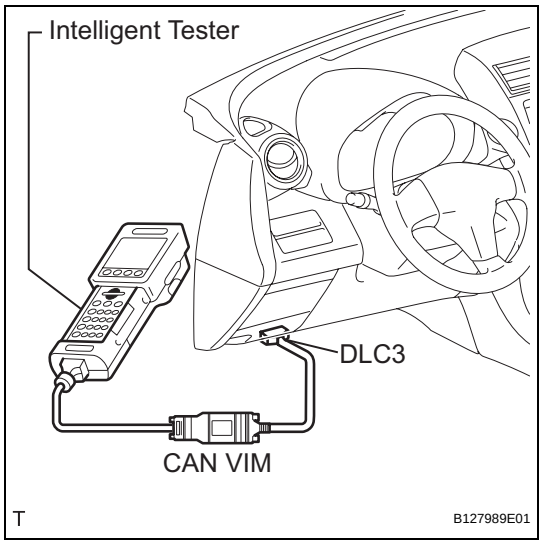


3. CHECK DTC (USING INTELLIGENT TESTER)

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Check 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 ON.
(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)

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Select the "SIGNAL CHECK", and continue checking with the intelligent tester.
NOTICE:
Select the "SIGNAL CHECK" from the "DTC CHECK" screen displayed on the intelligent tester to clear the output DTCs (both present and past).
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.

RS

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester's Data List allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the Data List early in troubleshooting in one way to save time.

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.

(b) Turn the ignition switch ON.

(c) Read the Data List according to the display on the tester.

Center airbag sensor

Item	Measure Item / Range (Display)	Normal Condition	Diagnostic Note
D SEAT POSITION	Seat position (Driver side)/ FORWARD: Seat position forward BKWARD: Seat position backward FAIL: Failure detected	FORWARD/BKWARD	-
PASSENGER CLASS	Front passenger classification/ NG: Data is not determined OFF: Vacant CHILD: Child (Less than 36 kg [79.37 lb]) seated AF05: Adult (36 to 54 kg [79.37 to 119.05 lb]) seated AM50: Adult (More than 54 kg [119.05 lb]) seated FAIL: Failure detected	NG/OFF/CHILD/AF05/AM50/FAIL	-
D BUCKLE SW	Buckle switch (Driver side)/ UNSET: Seat belt not fastened SET: Seat belt fastened NG: Data not determined	UNSET/SET	-
P BUCKLE SW	Buckle switch (Front passenger side)/ UNSET: Seat belt not fastened SET: Seat belt fastened NG: Data not determined	UNSET/SET	-
DISPLAY TYPE	Display type identification information/ LR: Display indicated by LH/RH DP: Display indicated by Driver/Passenger	DP	-
PAST CODES	Number of past DTCs / Min.: 0, Max.: 255	0	-

DIAGNOSTIC TROUBLE CODE CHART

If a DTC is displayed during the DTC check, check the circuit listed for the DTC in the table below (refer to the appropriate page).

HINT:

- When the SRS warning light remains on and the normal system code is output, a decrease in the source voltage is likely to occur. This malfunction is not stored in the memory of the center airbag sensor. If the power source voltage returns to normal, the SRS warning light will automatically go off.
- When 2 or more DTCs are indicated, the DTC with the lowest number appears first.
- If a DTC is not listed on the DTC chart, the center airbag sensor may have malfunctioned.
- In the case of any malfunctions concerning open circuits, shorts to ground, or shorts to B+ due to squibs, other DTCs may not be set. In this case, repair the malfunction currently indicated and then perform a malfunction diagnosis again.
- Mark in the check mode column:
  -: DTC does not correspond to check mode.
  ○: DTC corresponds to check mode.
- When DTC B1650/32 is set as a result of troubleshooting the Supplemental Restraint System (SRS), perform troubleshooting for the occupant classification system.

Airbag System

DTC No.	Detection Item	Check Mode	SRS Warning Light	See Page
B1000/31	Center Airbag Sensor Assembly Malfunction	-	ON	RS-58
B1602/83	Lost Communication with Front Satellite Sensor Bus RH	-	ON	RS-59
B1603/83	Front Satellite Sensor Bus RH Initialization Incomplete	-	ON	RS-59
B1607/84	Lost Communication with Front Satellite Sensor Bus LH	-	ON	RS-70
B1608/84	Front Satellite Sensor Bus LH Initialization Incomplete	-	ON	RS-70
B1610/13	Front Airbag Sensor RH Circuit Malfunction	-	ON	RS-81
B1612/83	Lost Communication with Front Airbag Sensor RH	-	ON	RS-59
B1613/83	Front Airbag Sensor RH Initialization Incomplete	-	ON	RS-59
B1615/14	Front Airbag Sensor LH Circuit Malfunction	-	ON	RS-83
B1617/84	Lost Communication with Front Airbag Sensor LH	-	ON	RS-70
B1618/84	Front Airbag Sensor LH Initialization Incomplete	-	ON	RS-70
B1620/21	Driver Side - Side Airbag Sensor Circuit Malfunction	-	ON	RS-85

DTC No.	Detection Item	Check Mode	SRS Warning Light	See Page
B1622/81	Lost Communication with Driver Side - Side Airbag Sensor Assembly	-	ON	RS-87
B1623/81	Driver Side - Side Airbag Sensor Assembly Initialization Incomplete	-	ON	RS-92
B1625/22	Front Passenger Side - Side Airbag Sensor Circuit Malfunction	-	ON	RS-100
B1627/82	Lost Communication with Front Passenger Side - Side Airbag Sensor Assembly	-	ON	RS-102
B1628/82	Front Passenger Side - Side Airbag Sensor Assembly Initialization Incomplete	-	ON	RS-107
B1630/23	Driver Side Rear Airbag Sensor Circuit Malfunction	-	ON	RS-115
B1632/81	Lost Communication with Driver Side Curtain Shield Airbag Sensor	-	ON	RS-92
B1633/81	Driver Side Curtain Shield Airbag Sensor Initialization Incomplete	-	ON	RS-92
B1635/24	Front Passenger Side Rear Airbag Sensor Circuit Malfunction	-	ON	RS-117
B1637/82	Lost Communication with Front Passenger Side Curtain Shield Airbag Sensor	-	ON	RS-107
B1638/82	Front Passenger Side Curtain Shield Airbag Sensor Initialization Incomplete	-	ON	RS-107
B1642/81	Lost Communication with Driver Side Satellite Sensor Bus	-	ON	RS-92
B1643/81	Driver Side Satellite Sensor Bus Initialization Incomplete	-	ON	RS-119
B1647/82	Lost Communication with Front Passenger Side Satellite Sensor Bus	-	ON	RS-107
B1648/82	Front Passenger Side Satellite Sensor Bus Initialization Incomplete	-	ON	RS-127
B1650/32	Occupant Classification System Malfunction	-	ON	RS-135
B1653/35	Seat Position Airbag Sensor Circuit Malfunction	-	ON	RS-141
B1655/37	Driver Side Seat Belt Buckle Switch Circuit Malfunction	-	ON	RS-153
B1660/43	Passenger Airbag ON / OFF Indicator Circuit Malfunction	-	ON	RS-161
B1800/51	Short in Driver Side Squib Circuit	○	ON	RS-176

DTC No.	Detection Item	Check Mode	SRS Warning Light	See Page
B1801/51	Open in Driver Side Squib Circuit	O	ON	RS-176
B1802/51	Short to GND in Driver Side Squib Circuit	O	ON	RS-176
B1803/51	Short to B+ in Driver Side Squib Circuit	O	ON	RS-176
B1805/52	Short in Front Passenger Side Squib Circuit	O	ON	RS-181
B1806/52	Open in Front Passenger Side Squib Circuit	O	ON	RS-181
B1807/52	Short to GND in Front Passenger Side Squib Circuit	O	ON	RS-181
B1808/52	Short to B+ in Front Passenger Side Squib Circuit	O	ON	RS-181
B1810/53	Short in Driver Side Squib 2nd Step Circuit	O	ON	RS-186
B1811/53	Open in Driver Side Squib 2nd Step Circuit	O	ON	RS-186
B1812/53	Short to GND in Driver Side Squib 2nd Step Circuit	O	ON	RS-186
B1813/53	Short to B+ in Driver Side Squib 2nd Step Circuit	O	ON	RS-186
B1815/54	Short in Front Passenger Side Squib 2nd Step Circuit	O	ON	RS-191
B1816/54	Open in Front Passenger Side Squib 2nd Step Circuit	O	ON	RS-191
B1817/54	Short to GND in Front Passenger Side Squib 2nd Step Circuit	O	ON	RS-191
B1818/54	Short to B+ in Front Passenger Side Squib 2nd Step Circuit	O	ON	RS-191
B1820/55	Short in Driver Side - Side Squib Circuit	O	ON	RS-196
B1821/55	Open in Driver Side - Side Squib Circuit	O	ON	RS-196
B1822/55	Short to GND in Driver Side - Side Squib Circuit	O	ON	RS-196
B1823/55	Short to B+ in Driver Side - Side Squib Circuit	O	ON	RS-196
B1825/56	Short in Front Passenger Side - Side Squib Circuit	O	ON	RS-201
B1826/56	Open in Front Passenger Side - Side Squib Circuit	O	ON	RS-201
B1827/56	Short to GND in Front Passenger Side - Side Squib Circuit	O	ON	RS-201
B1828/56	Short to B+ in Front Passenger Side - Side Squib Circuit	O	ON	RS-201
B1830/57	Short in Driver Side Curtain Shield Squib Circuit	O	ON	RS-206

DTC No.	Detection Item	Check Mode	SRS Warning Light	See Page
B1831/57	Open in Driver Side Curtain Shield Squib Circuit	O	ON	RS-206
B1832/57	Short to GND in Driver Side Curtain Shield Squib Circuit	O	ON	RS-206
B1833/57	Short to B+ in Driver Side Curtain Shield Squib Circuit	O	ON	RS-206
B1835/58	Short in Front Passenger Side Curtain Shield Squib Circuit	O	ON	RS-210
B1836/58	Open in Front Passenger Side Curtain Shield Squib Circuit	O	ON	RS-210
B1837/58	Short to GND in Front Passenger Side Curtain Shield Squib Circuit	O	ON	RS-210
B1838/58	Short to B+ in Front Passenger Side Curtain Shield Squib Circuit	O	ON	RS-210
B1900/73	Short in Driver Side Front Pretensioner Squib Circuit	O	ON	RS-215
B1901/73	Open in Driver Side Front Pretensioner Squib Circuit	O	ON	RS-215
B1902/73	Short to GND in Driver Side Front Pretensioner Squib Circuit	O	ON	RS-215
B1903/73	Short to B+ in Driver Side Front Pretensioner Squib Circuit	O	ON	RS-215
B1905/74	Short in Front Passenger Side Front Pretensioner Squib Circuit	O	ON	RS-219
B1906/74	Open in Front Passenger Side Front Pretensioner Squib Circuit	O	ON	RS-219
B1907/74	Short to GND in Front Passenger Side Front Pretensioner Squib Circuit	O	ON	RS-219
B1908/74	Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit	O	ON	RS-219

DTC	B1000/31	Center Airbag Sensor Assembly Malfunction

DESCRIPTION

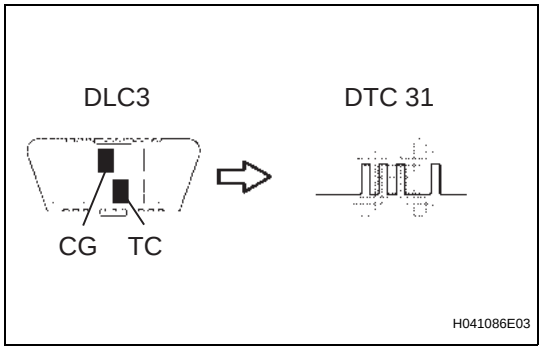
The center airbag sensor consists of the airbag sensor, the safing sensor, the drive circuit, the diagnosis circuit and the ignition control.
If the center airbag sensor receives signals from the airbag sensor, it determines whether or not the SRS should be activated.
DTC B1000/31 is recorded when a malfunction is detected in the center airbag sensor.

DTC No.	DTC Detection Condition	Trouble Area
B1000/31	Center airbag sensor malfunction	Center airbag sensor assembly

HINT:
When a malfunction code is displayed simultaneously with DTC B1000/31, repair the malfunction indicated by this code (except DTC B1000/31) first.

INSPECTION PROCEDURE

1	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-49).
OK:
DTC B1000/31 is not output.

RS

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

USE SIMULATION METHOD TO CHECK

DTC	**B1602/83**	**Lost Communication with Front Satellite Sensor Bus RH**

DTC	**B1603/83**	**Front Satellite Sensor Bus RH Initialization Incomplete**

DTC	**B1612/83**	**Lost Communication with Front Airbag Sensor RH**

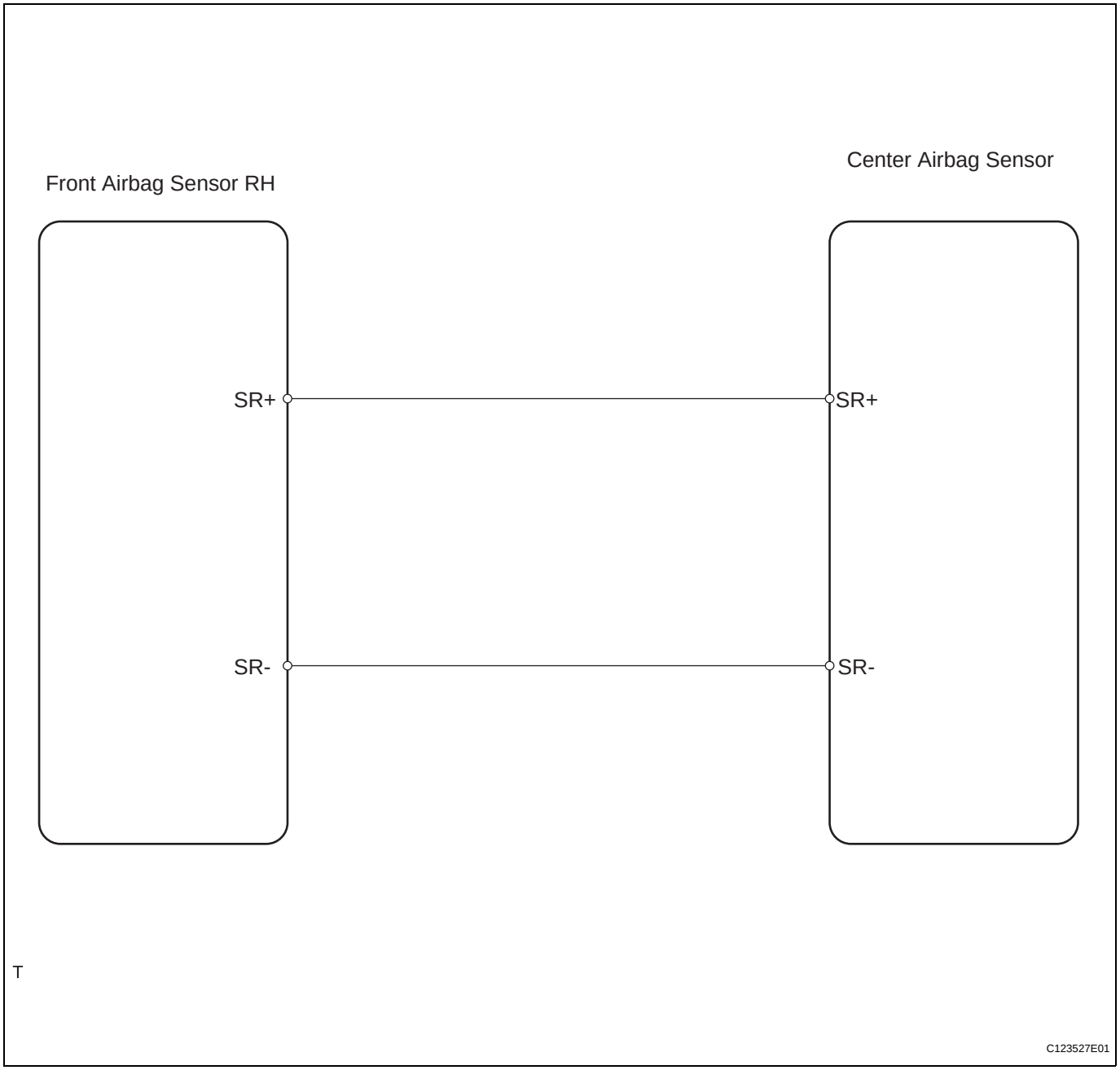
DTC	**B1613/83**	**Front Airbag Sensor RH Initialization Incomplete**

DESCRIPTION

The front airbag sensor RH consists of the diagnostic circuit and the frontal deceleration sensor.
If the center airbag sensor receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1602/83, B1603/83, B1612/83 or B1613/83 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1602/83 B1603/83 B1612/83 B1613/83	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in the front airbag sensor RH circuit for 2 seconds. • Front airbag sensor RH malfunction • Center airbag sensor malfunction	• Instrument panel wire • Engine room main wire • Front airbag sensor RH • Center airbag sensor

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

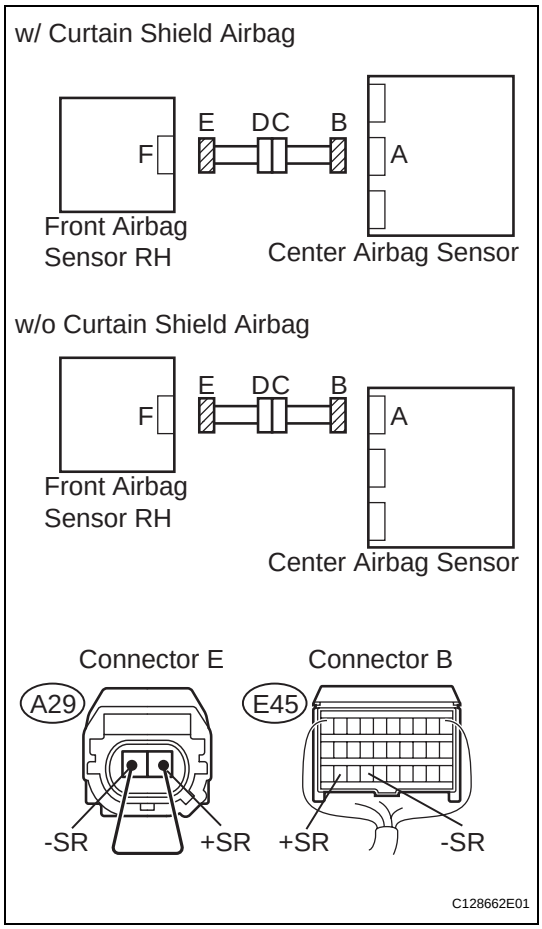
1	CHECK CONNECTION OF CONNECTOR

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

NG	CONNECT CONNECTOR

OK

2	CHECK FRONT AIRBAG SENSOR RH CIRCUIT (OPEN)



(a) Disconnect the connectors from the center airbag sensor and the front airbag sensor RH.

(b) Using a service wire, connect A29-2 (+SR) and A29-1 (-SR) of connector E.

NOTICE:

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

(c) Measure the resistance of the wire harness side connector.

Standard resistance

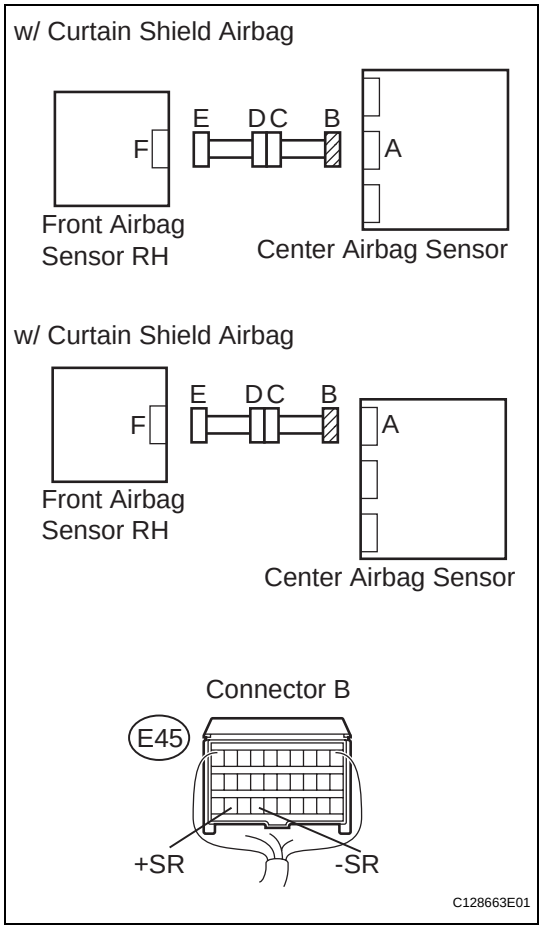
Tester Connection	Specified Condition
E45-29 (+SR) - E45-27 (-SR)	Below 1 Ω

NG → **Go to step 7**

OK

RS

3	CHECK FRONT AIRBAG SENSOR RH CIRCUIT (SHORT)



(a) Disconnect the service wire from connector E.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

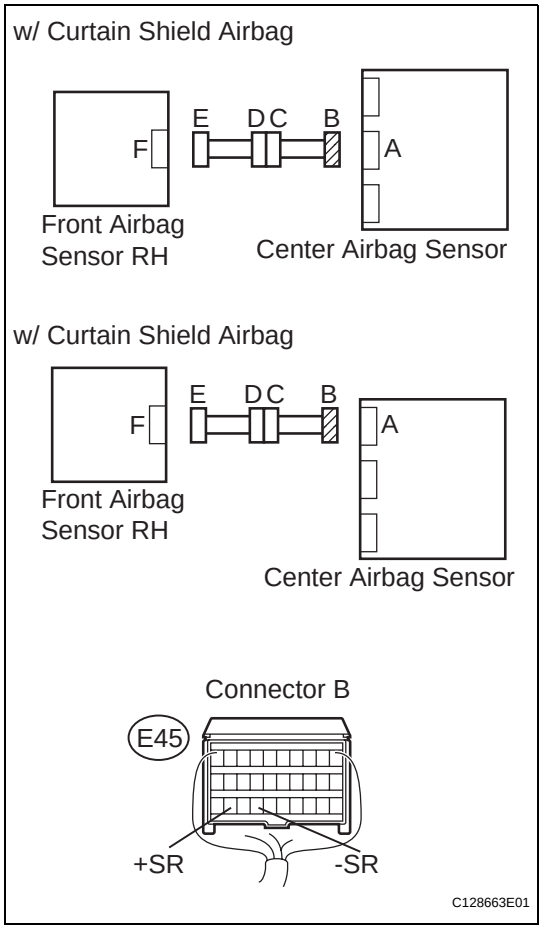
Tester Connection	Specified Condition
E45-29 (+SR) - E45-27 (-SR)	1 MΩ or higher

NG → **Go to step 8**

OK

RS

4	CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.

Standard voltage

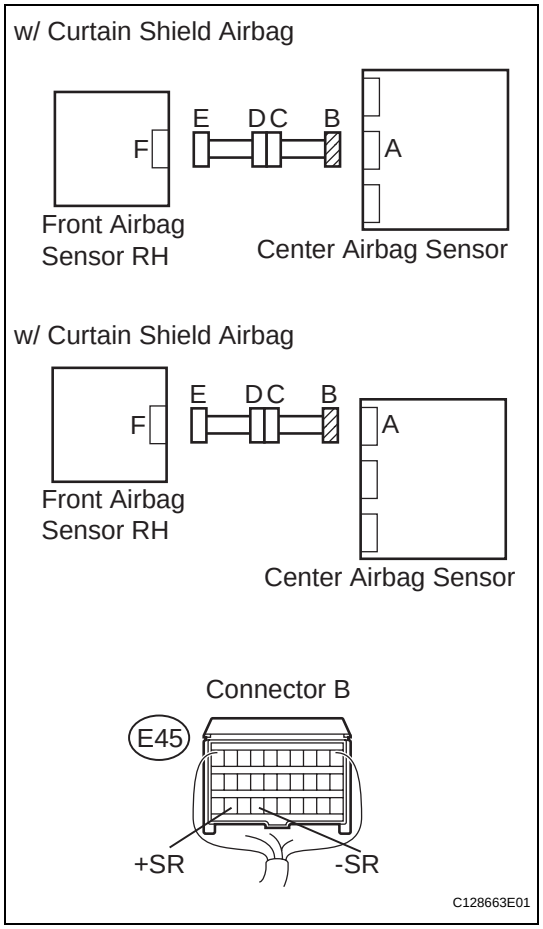
Tester Connection	Specified Condition
E45-29 (+SR) -Body ground	Below 1 V
E45-27 (-SR) - Body ground	Below 1 V

NG → **Go to step 9**

OK

RS

5	CHECK FRONT AIRBAG SENSOR RH CIRCUIT (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.

Standard resistance

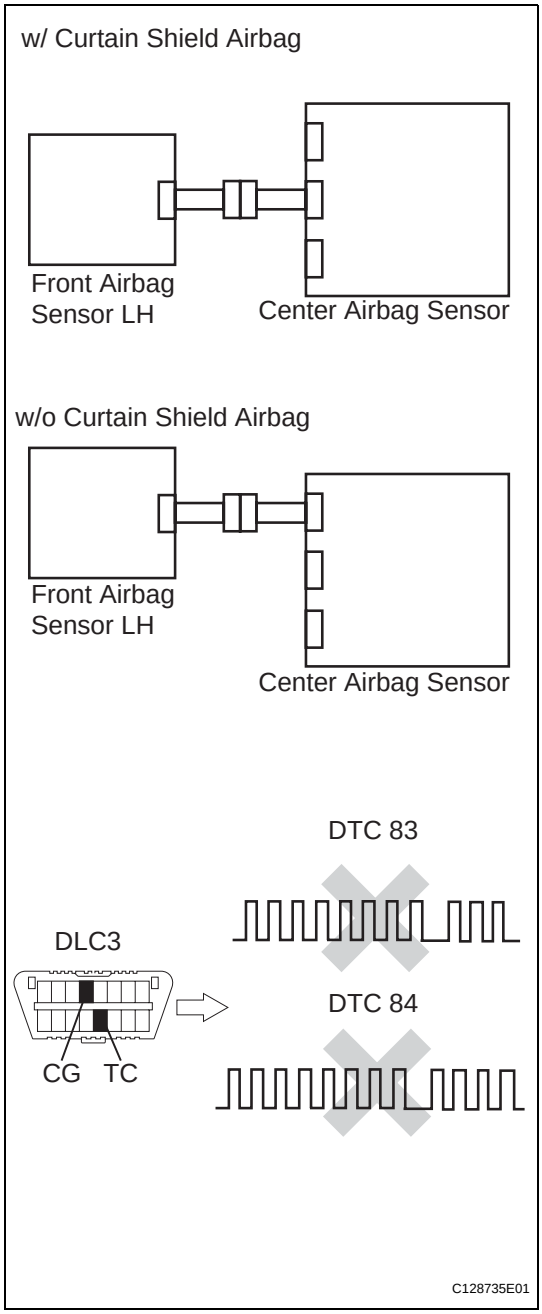
Tester Connection	Specified Condition
E45-29 (+SR) - Body ground	1 MΩ or higher
E45-27 (-SR) - Body ground	1 MΩ or higher

NG → **Go to step 10**

OK

RS

6	CHECK FRONT AIRBAG SENSOR RH



(a) Connect the connectors to the center airbag sensor .
(b) Interchange the front airbag sensor RH and LH, and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1602/83, B1603/83, B1612/83, B1613/83, B1607/84, B1608/84, B1617/84 and B1618/84 are not output.	A
DTC B1602/83, B1603/83, B1612/83 and B1613/83 are output	B
B1607/84, B1608/84, B1617/84 and B1618/84 are output	C

HINT:
DTCs other than DTC B1602/83, B1603/83, B1612/83, B1613/83, B1607/84, B1608/84, B1617/84 and B1618/84 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

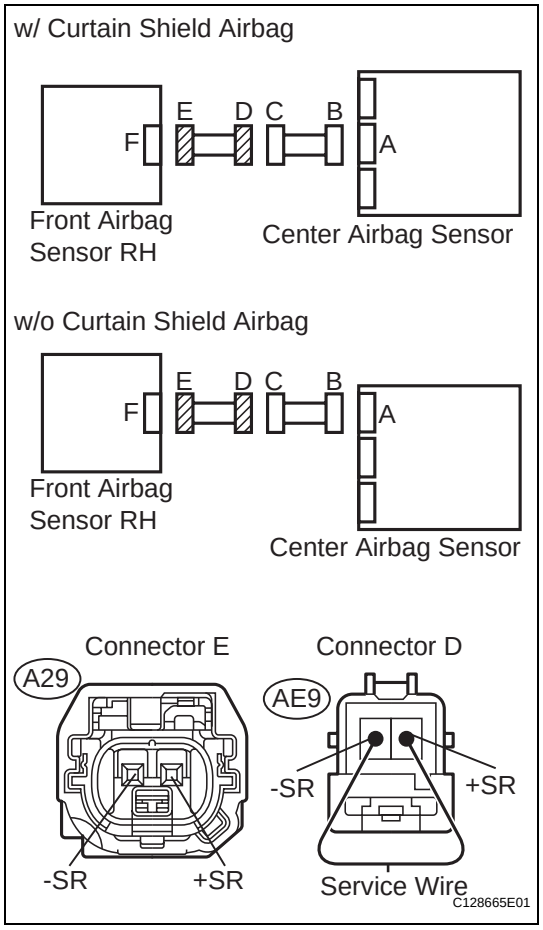
C → **REPLACE FRONT AIRBAG SENSOR RH**

A

USE SIMULATION METHOD TO CHECK

RS

7	CHECK ENGINE ROOM MAIN WIRE (OPEN)



(a) Disconnect the service wire from connector E.
(b) Disconnect the engine room main wire connector from the instrument panel wire.
(c) Using a service wire, connect AE9-2 (+SR) and AE9-1 (-SR) of connector D.
NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(d) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
A29-2 (+SR) - A29-1 (-SR)	Below 1 Ω

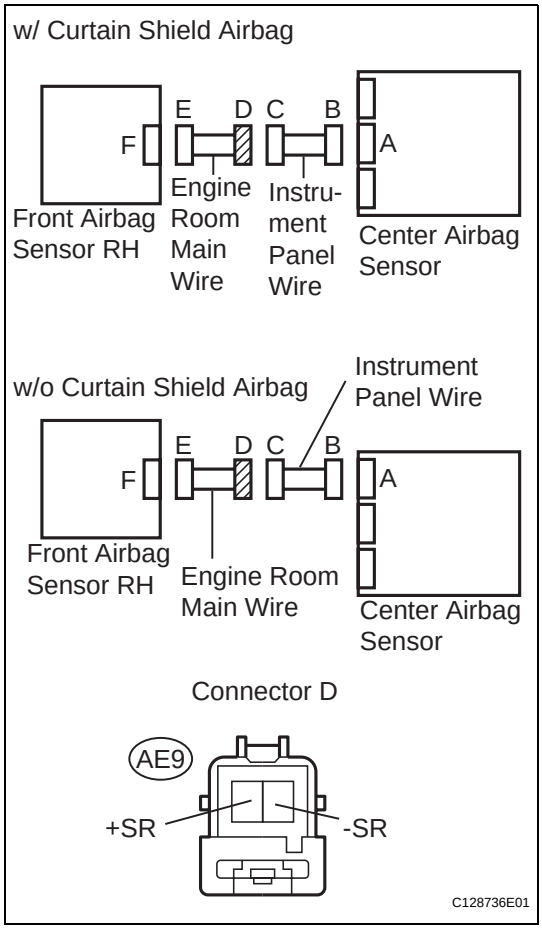
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

8	CHECK ENGINE ROOM MAIN WIRE (SHORT)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Disconnect the service wire from connector E.
(c) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
AE9-1 (+SR) - AE9-2 (-SR)	1 MΩ or higher

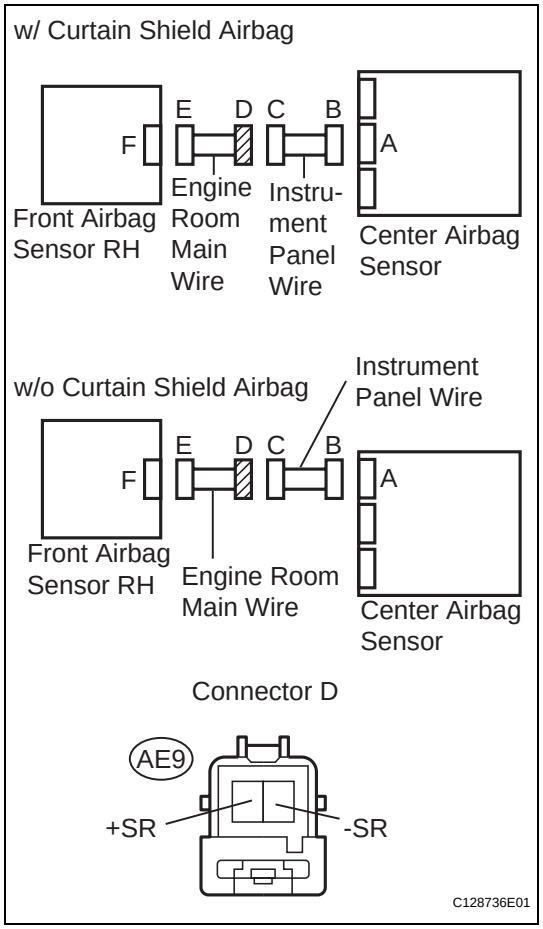
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

9	CHECK ENGINE ROOM MAIN WIRE (TO B+)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the engine room main wire connector from the instrument panel wire.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
AE9-1 (+SR) - Body ground	Below 1 V
AE9-2 (-SR) - Body ground	Below 1 V

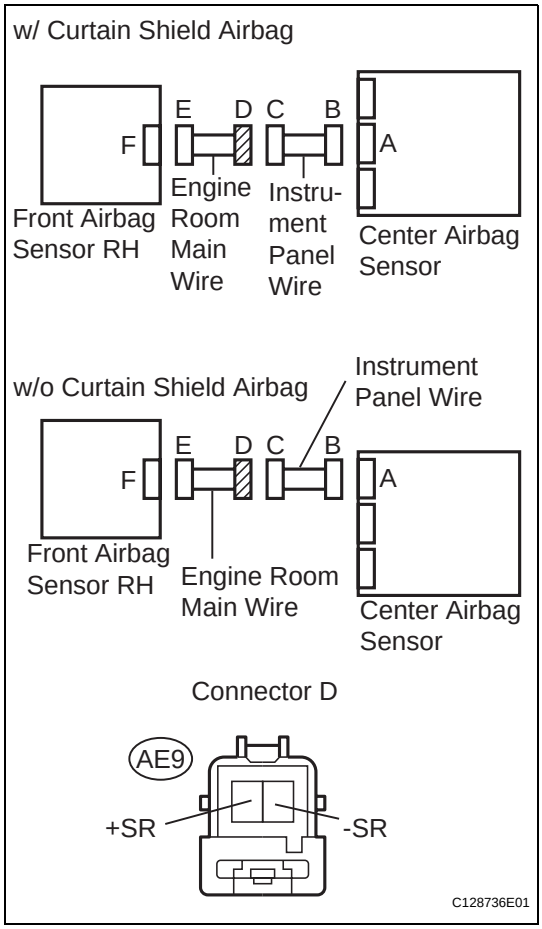
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

10	CHECK ENGINE ROOM MAIN WIRE (TO GROUND)



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

(b) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
AE9-1 (+SR) - Body ground	1 MΩ or higher
AE9-2 (-SR) - Body ground	1 MΩ or higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

DTC	B1607/84	Lost Communication with Front Satellite Sensor Bus LH

DTC	B1608/84	Front Satellite Sensor Bus LH Initialization Incomplete

DTC	B1617/84	Lost Communication with Front Airbag Sensor LH

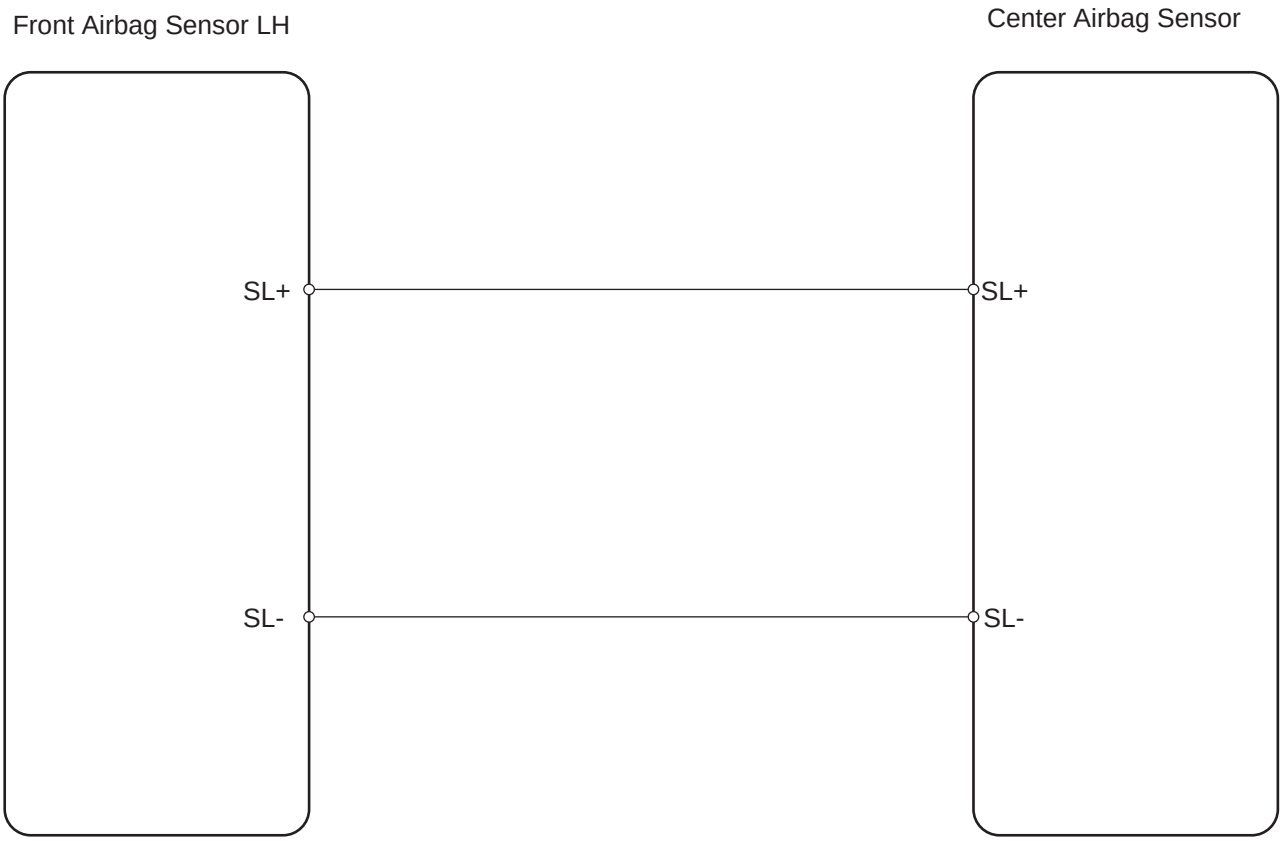
DTC	B1618/84	Front Airbag Sensor LH Initialization Incomplete

DESCRIPTION

The front airbag sensor LH consists of the diagnostic circuit and the frontal deceleration sensor.
If the center airbag sensor receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1607/84, B1608/84, B1617/84 or B1618/84 is recorded when a malfunction is detected in the front airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1607/84 B1608/84 B1617/84 B1618/84	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in the front airbag sensor LH circuit for 2 seconds. • Front airbag sensor LH malfunction • Center airbag sensor malfunction	• Instrument panel wire • Engine room main wire • Front airbag sensor LH • Center airbag sensor

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

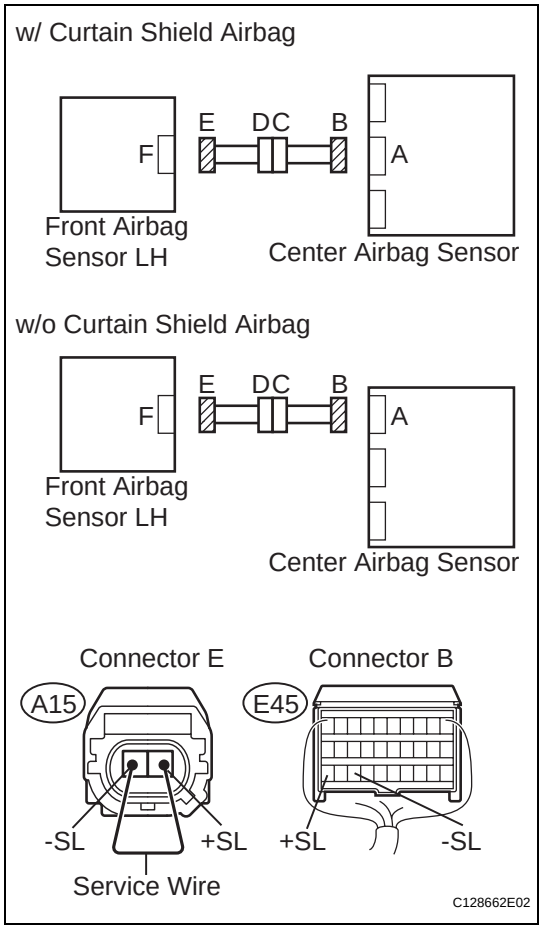
1	CHECK CONNECTION OF CONNECTOR

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

NG → **CONNECT CONNECTOR**

OK

2	CHECK FRONT AIRBAG SENSOR LH CIRCUIT (OPEN)



(a) Disconnect the connectors from the center airbag sensor and the front airbag sensor LH.

(b) Using a service wire, connect A15-2 (+SL) and A15-1 (-SL) of connector E.

NOTICE:

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

(c) Measure the resistance of the wire harness side connector.

Standard resistance

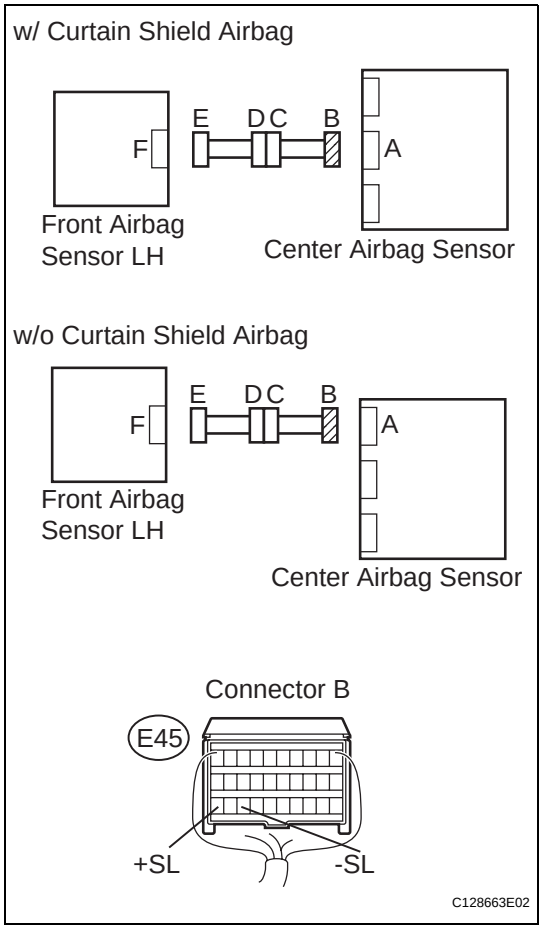
Tester Connection	Specified Condition
E45-30 (+SL) - E45-28 (-SL)	Below 1 Ω

NG → **Go to step 7**

OK

RS

3	CHECK FRONT AIRBAG SENSOR LH CIRCUIT (SHORT)



(a) Disconnect the service wire from connector E.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
E45-30 (+SL) - E45-28 (-SL)	1 MΩ or higher

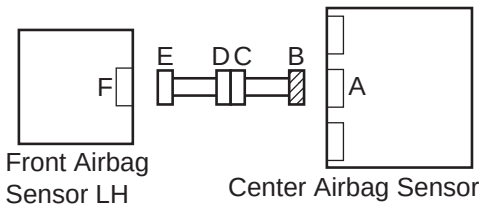
NG → **Go to step 8**

OK

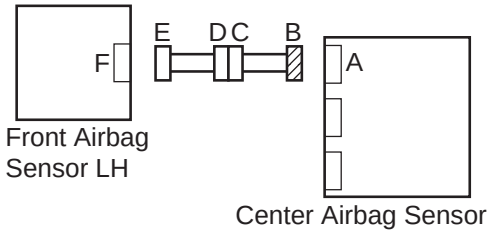
RS

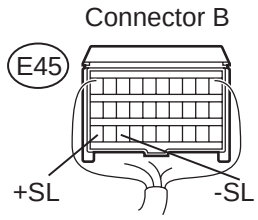
4	CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO B+)

w/ Curtain Shield Airbag



w/o Curtain Shield Airbag





C128663E02

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connectors.

Standard voltage

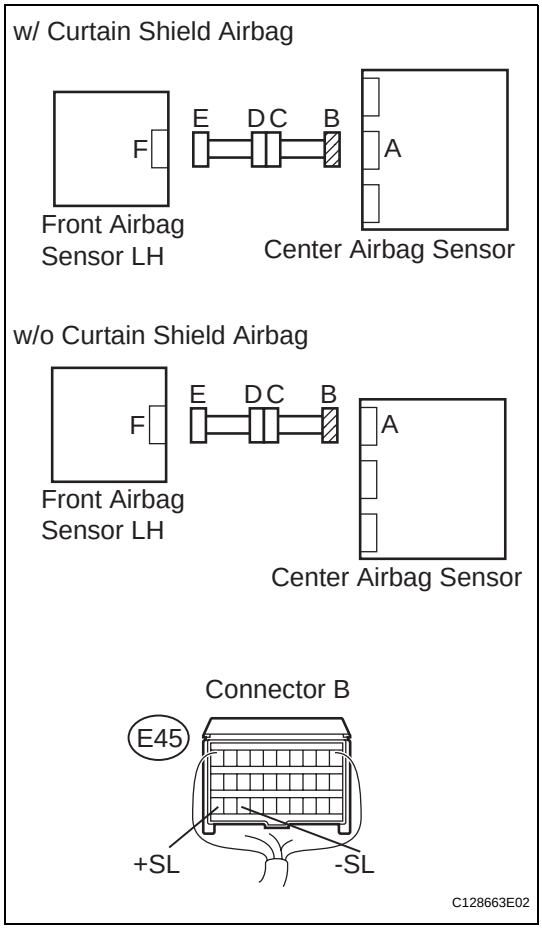
Tester Connection	Specified Condition
E45-30 (+SL) - Body ground	Below 1 V
E45-28 (-SL) - Body ground	Below 1 V

NG → **Go to step 9**

OK

RS

5	CHECK FRONT AIRBAG SENSOR LH CIRCUIT (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.

Standard resistance

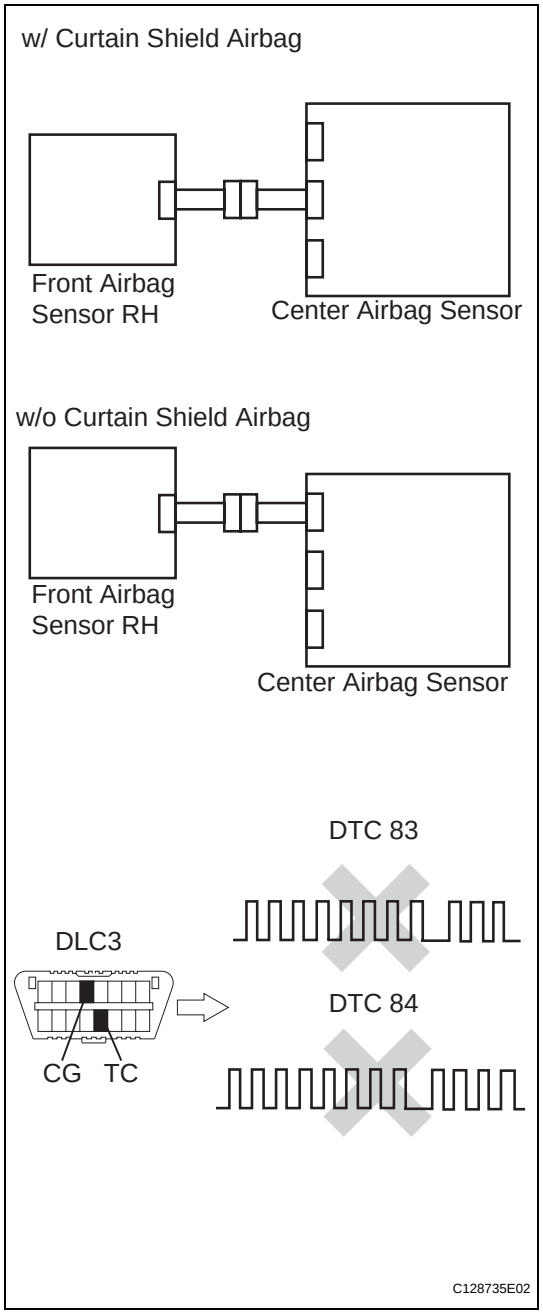
Tester Connection	Specified Condition
E45-30 (+SL) - Body ground	1 MΩ or higher
E45-28 (-SL) - Body ground	1 MΩ or higher

NG → **Go to step 10**

OK

RS

6 CHECK FRONT AIRBAG SENSOR LH



(a) Connect the connectors to the center airbag sensor.
(b) Interchange the front airbag sensor RH and LH, and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1602/83, B1603/83, B1612/83, B1613/83, B1607/84, B1608/84, B1617/84 and B1618/84 are not output.	A
DTC B1607/84, B1608/84, B1617/84 and B1618/84 are output	B
DTC B1602/83, B1603/83, B1612/83 and B1613/83 are output	C

HINT:
DTCs other than B1602/83, B1603/83, B1612/83, B1613/83, B1607/84, B1608/84, B1617/84 and B1618/84 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

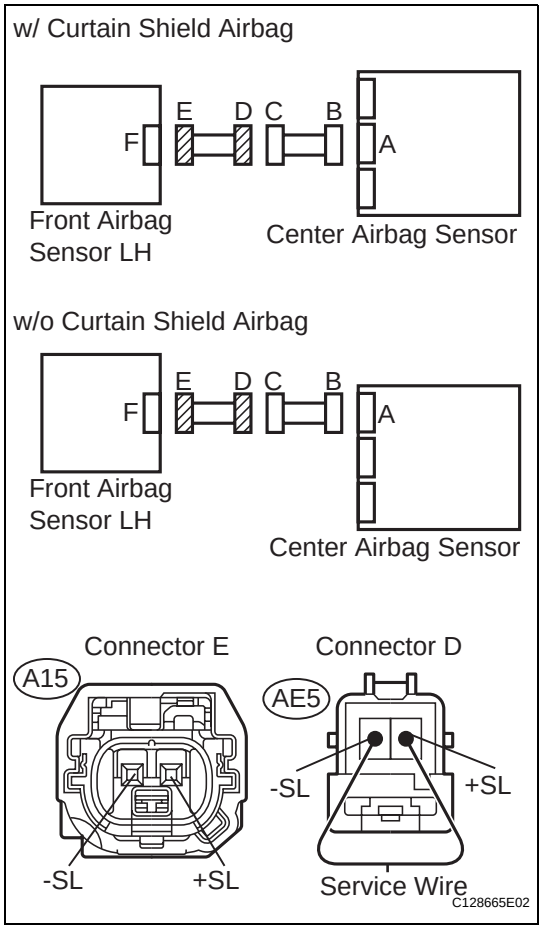
C → **REPLACE FRONT AIRBAG SENSOR LH**

RS

A

USE SIMULATION METHOD TO CHECK

7	CHECK ENGINE ROOM MAIN WIRE (OPEN)



(a) Disconnect the service wire from connector E.
(b) Disconnect the engine room main wire connector from the instrument panel wire.
(c) Using a service wire, connect AE5-1 (+SL) and AE5-2 (-SL) of connector D.
NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(d) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
A15-2 (+SL) - A15-1 (-SL)	Below 1 Ω

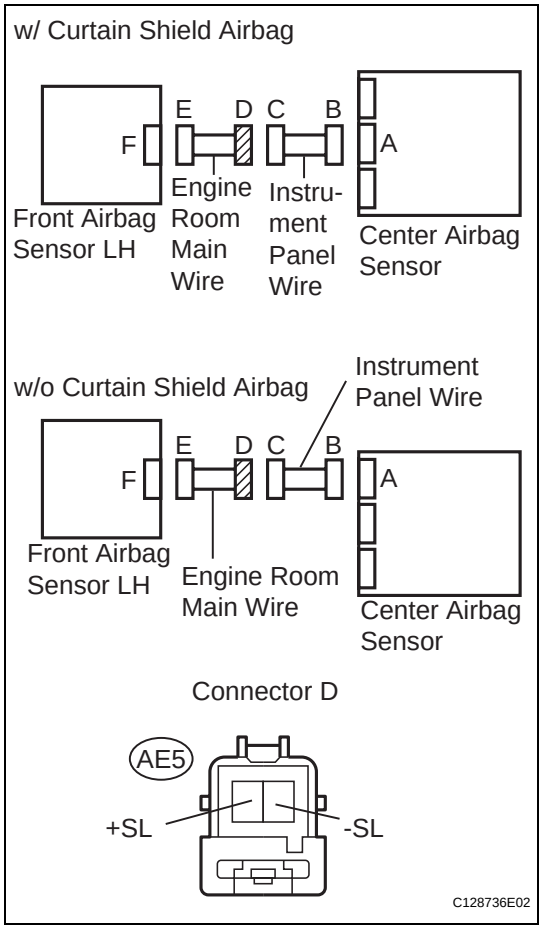
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

8	CHECK ENGINE ROOM MAIN WIRE (SHORT)



(a) Disconnect the engine room main wire connector from the instrument panel wire.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
AE5-1 (+SL) - AE5-2 (-SL)	1 MΩ or higher

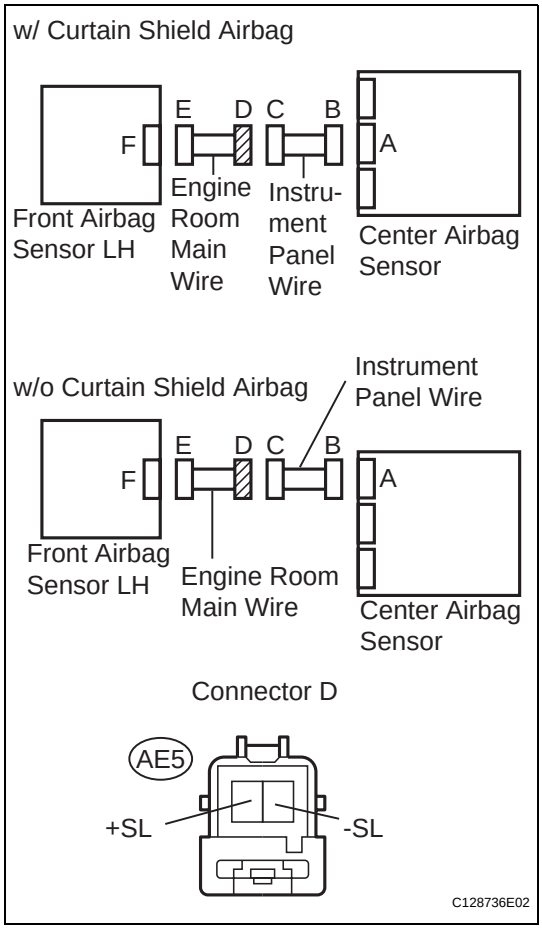
NG → **REPAIR OR REPLACE ENGINE ROOM MAIN WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

9	CHECK ENGINE ROOM MAIN WIRE (TO B+)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the engine room main wire connector from the instrument panel wire.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Measure the voltage of the wire harness side connector.
Standard voltage

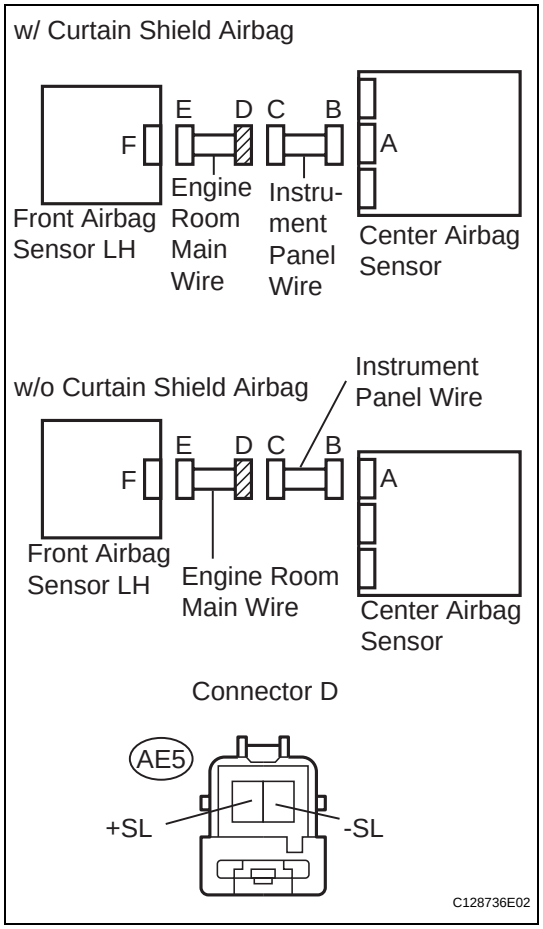
Tester Connection	Specified Condition
AE5-1 (+SL) - Body ground	Below 1 V
AE5-2 (-SL) - Body ground	Below 1 V

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

10 CHECK ENGINE ROOM MAIN WIRE (TO GROUND)



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

(b) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
AE5-1 (+SL) - Body ground	1 MΩ or higher
AE5-2 (-SL) - Body ground	1 MΩ or higher

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

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

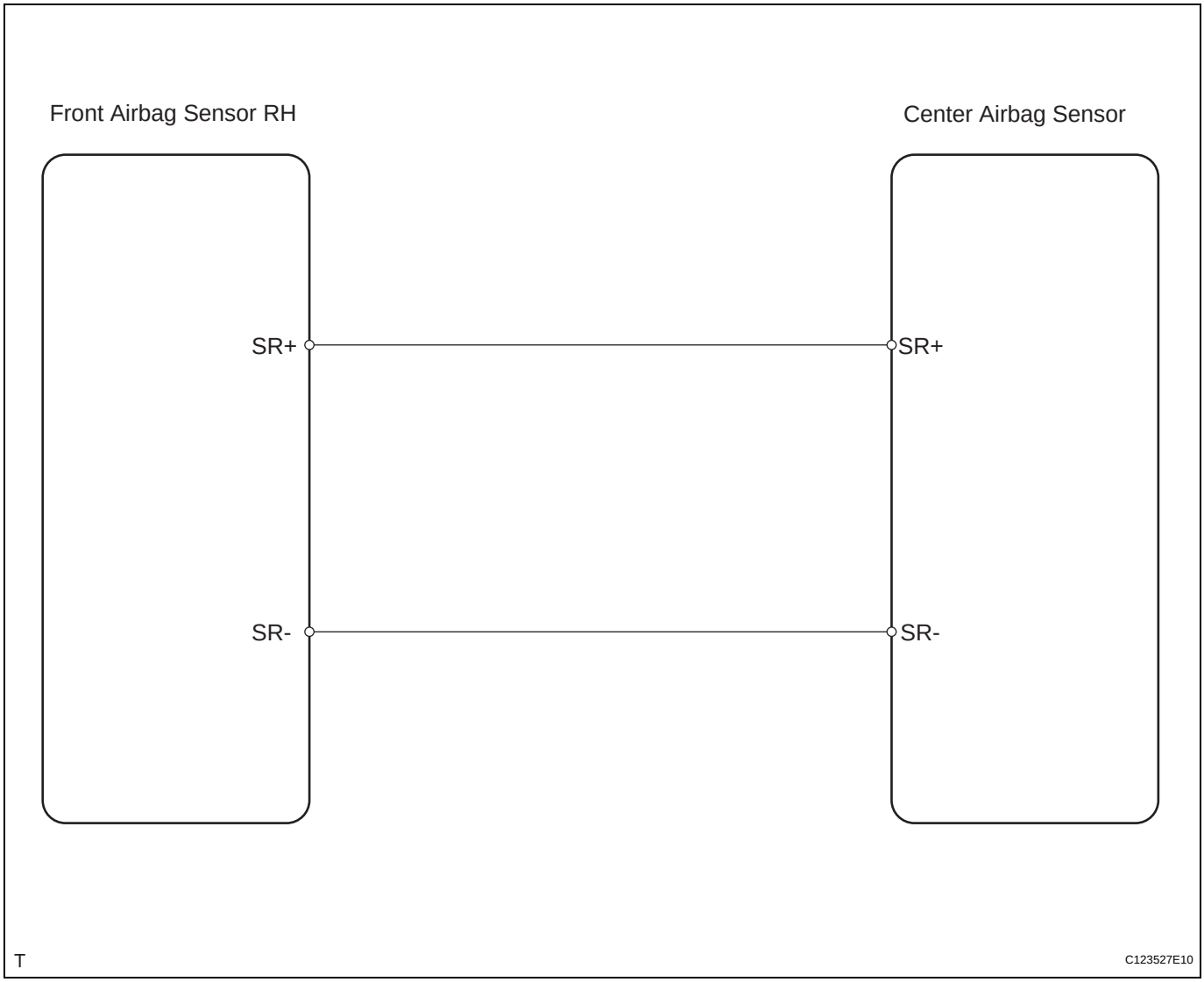
DTC	B1610/13	Front Airbag Sensor RH Circuit Malfunction

DESCRIPTION

The front airbag sensor RH consists of the diagnostic circuit, the frontal deceleration sensor, etc.
If the center airbag sensor assembly receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1610/13 is recorded when a malfunction is detected in the front airbag sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1610/13	When one of following conditions is met: • Front airbag sensor RH malfunction • Center airbag sensor malfunction	• Engine room main wire • Front airbag sensor RH • Center airbag sensor

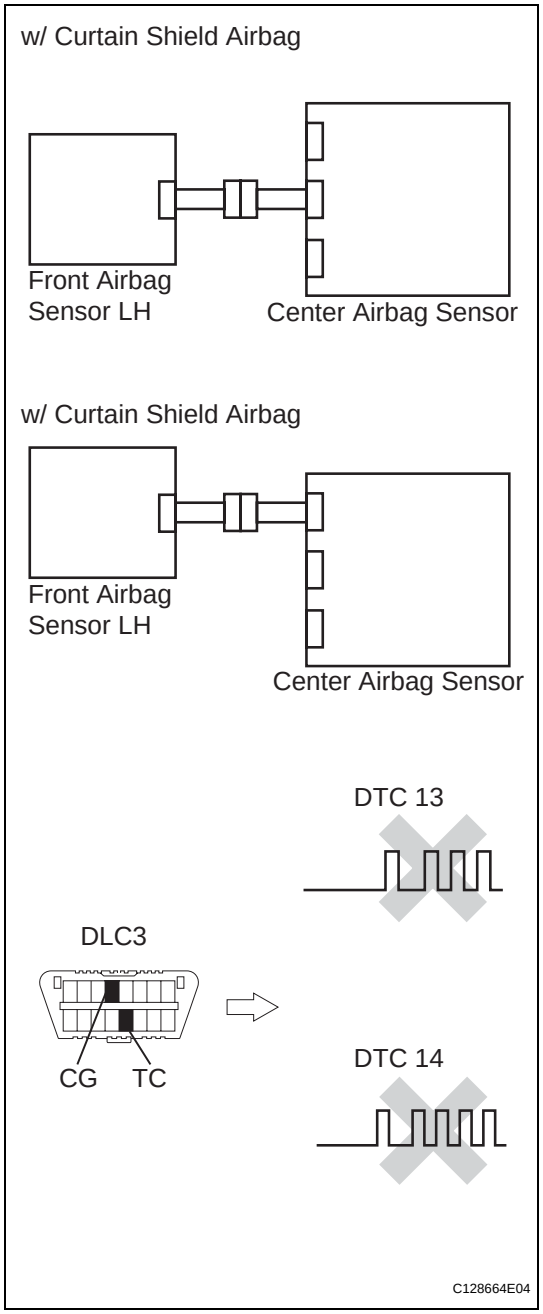
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK FRONT AIRBAG SENSOR RH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the front airbag sensor RH and LH, and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1610/13 and B1615/14 are not output.	A
DTC B1610/13 is output.	B
DTC B1615/14 is output.	C

HINT:
DTCs other than DTC B1610/13 and B1615/14 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE FRONT AIRBAG SENSOR RH**

A

USE SIMULATION METHOD TO CHECK

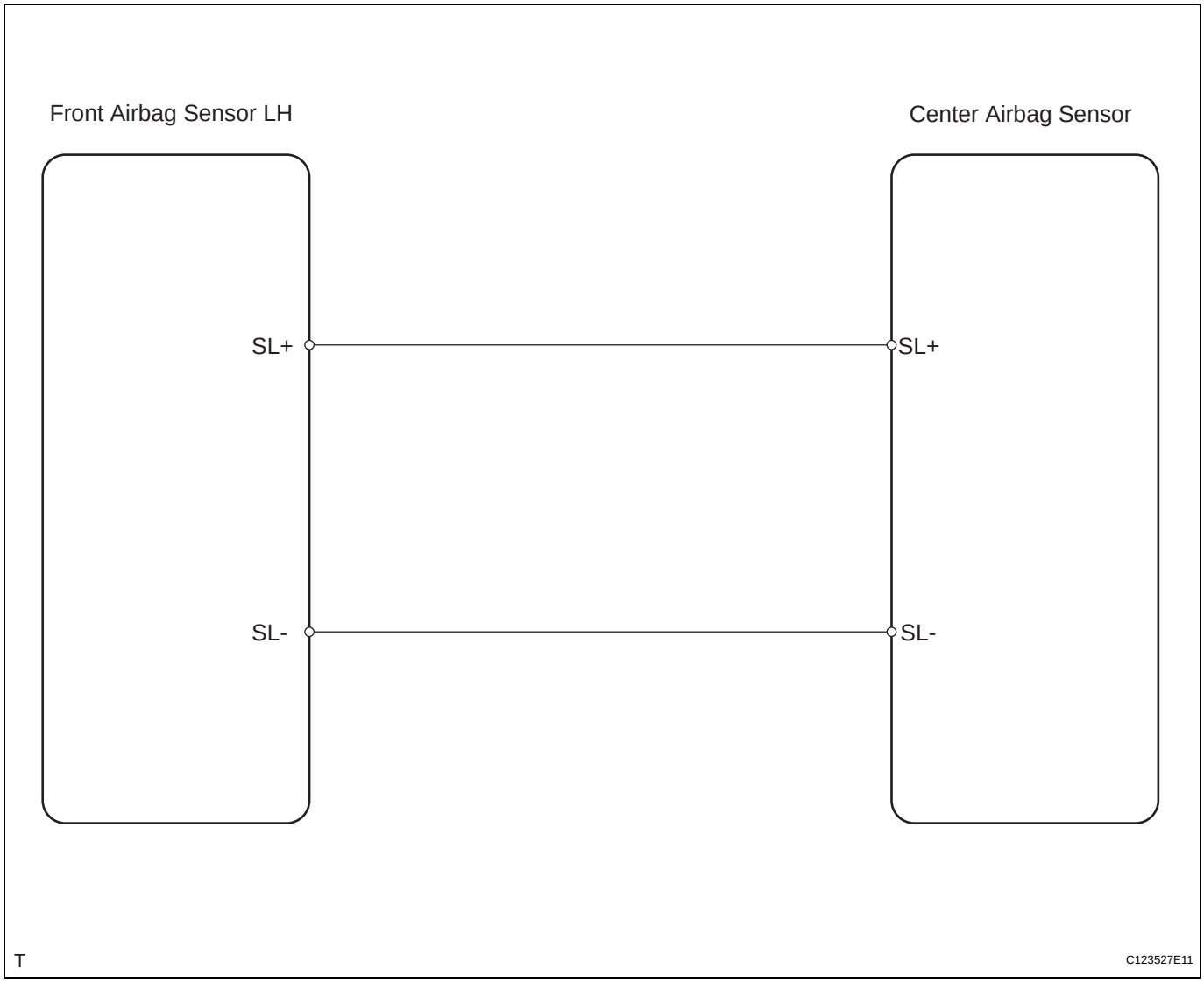
DTC	B1615/14	Front Airbag Sensor LH Circuit Malfunction

DESCRIPTION

The front airbag sensor LH consists of the diagnostic circuit, the frontal deceleration sensor, etc.
If the center airbag sensor receives signals from the frontal deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1615/14 is recorded when a malfunction is detected in the front airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1615/14	When one of following conditions is met: • Front airbag sensor LH malfunction • Center airbag sensor malfunction	• Engine room main wire • Front airbag sensor LH • Center airbag sensor

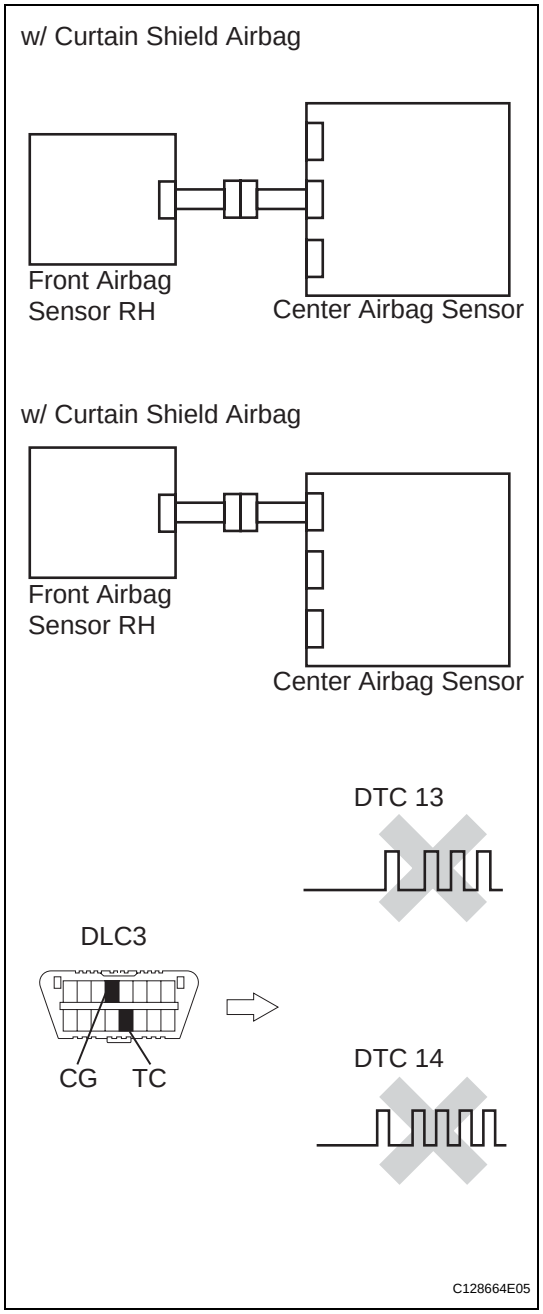
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK FRONT AIRBAG SENSOR LH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the front airbag sensor RH and LH, and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1610/13 and B1615/14 are not output.	A
DTC B1610/13 is output.	B
DTC B1615/14 is output.	C

HINT:
DTCs other than DTC B1610/13 and B1615/14 may be output at this time, but they are not related to this check.

B	REPLACE FRONT AIRBAG SENSOR LH
C	REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS

A

USE SIMULATION METHOD TO CHECK

REMOVAL

HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

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 REAR DOOR SCUFF PLATE LH (See page IR-26)**
3. **REMOVE REAR DOOR OPENING TRIM WEATHERSTRIP LH**
4. **REMOVE PACKAGE TRAY TRIM POCKET SUB-ASSEMBLY (w/o Rear No. 2 Seat)**
5. **REMOVE TONNEAU COVER ASSEMBLY (w/o Rear No. 2 Seat)**
6. **REMOVE REAR FLOOR NO. 1 BOARD (w/o Rear No. 2 Seat)**
7. **REMOVE DECK BOARD ASSEMBLY (w/o Rear No. 2 Seat)**
8. **REMOVE NO. 2 SEAT HINGE COVER LH (w/ Rear No. 2 Seat) (See page SE-109)**
9. **REMOVE NO. 2 SEAT HINGE COVER RH (w/ Rear No. 2 Seat) (See page IR-30)**
10. **REMOVE NO. 2 SEAT LEG COVER LH (w/ Rear No. 2 Seat) (See page SE-109)**
11. **REMOVE NO. 2 SEAT LEG COVER RH (w/ Rear No. 2 Seat) (See page IR-30)**
12. **REMOVE REAR NO. 2 SEAT ASSEMBLY LH (w/ Rear No. 2 Seat) (See page SE-110)**
13. **REMOVE REAR NO. 2 SEAT ASSEMBLY RH (w/ Rear No. 2 Seat) (See page SE-110)**
14. **REMOVE REAR FLOOR NO. 2 BOARD**
15. **REMOVE REAR FLOOR NO. 3 BOARD**
16. **REMOVE REAR NO. 1 FLOOR MAT SUPPORT SIDE PLATE (See page IR-31)**
17. **REMOVE BACK DOOR WEATHERSTRIP**
18. **REMOVE REAR FLOOR FINISH PLATE**
19. **REMOVE REAR DECK TRIM COVER (w/ Rear No. 2 Seat)**

20. REMOVE RECLINING REMOTE CONTROL LEVER BEZEL LH (w/o Rear No. 2 Seat)

21. DISCONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY LH (See page SB-48)

22. DISCONNECT REAR NO. 2 SEAT OUTER BELT ASSEMBLY LH (w/ Rear No. 2 Seat) (See page SB-48)

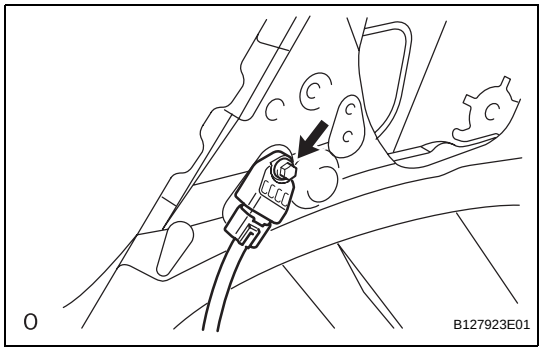
23. REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (w/o Rear No. 2 Seat) (See page IR-32)

24. REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (w/ Rear No. 2 Seat) (See page IR-32)

25. REMOVE AIRBAG SENSOR REAR LH

(a) Disconnect the connector.

(b) Remove the bolt and airbag sensor.



RS

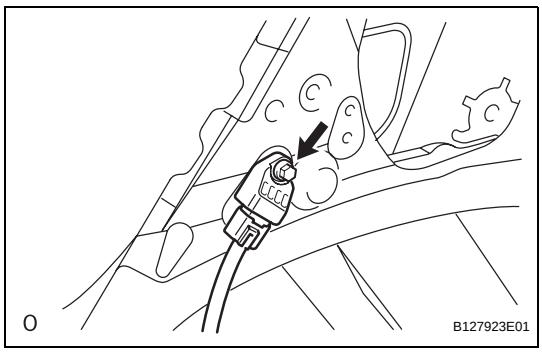
INSTALLATION

HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

CAUTION:

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



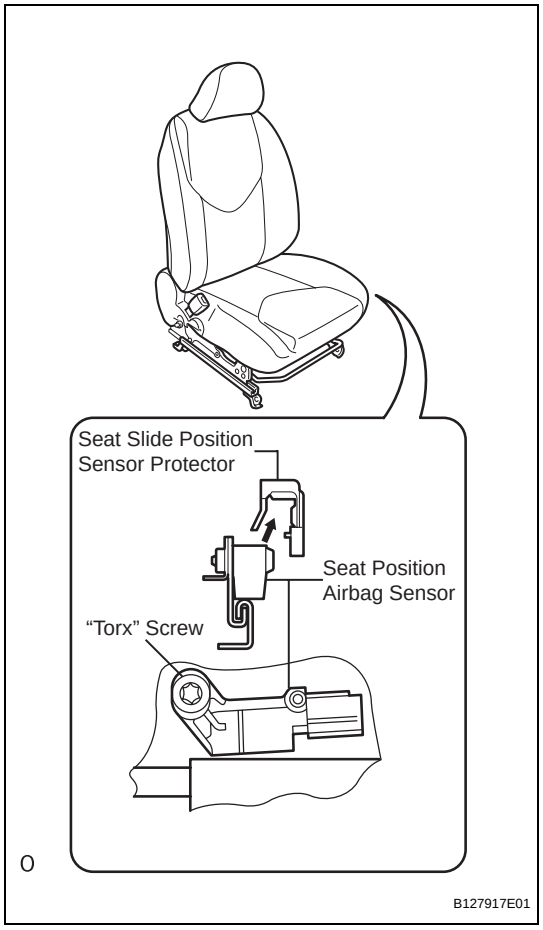
1. **INSTALL AIRBAG SENSOR REAR LH**
   (a) Install the airbag sensor with the bolt.
   Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)
   NOTICE:
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new one.**
   - **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.**
2. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (w/ Rear No. 2 Seat) (See page IR-53)**
3. **INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (w/ o Rear No. 2 Seat) (See page IR-52)**
4. **CONNECT REAR NO. 2 SEAT OUTER BELT ASSEMBLY LH (w/ Rear No. 2 Seat)**
5. **CONNECT REAR NO. 1 SEAT OUTER BELT ASSEMBLY LH (See page SB-51)**
6. **INSTALL RECLINING REMOTE CONTROL LEVER BEZEL LH (w/o Rear No. 2 Seat)**
7. **INSTALL REAR FLOOR FINISH PLATE (See page IR-55)**
8. **INSTALL REAR NO. 1 FLOOR MAT SUPPORT SIDE PLATE (See page IR-55)**
9. **INSTALL REAR FLOOR NO. 3 BOARD**
10. **INSTALL REAR FLOOR NO. 2 BOARD**
11. **INSTALL REAR NO. 2 SEAT ASSEMBLY LH (w/ Rear No. 2 Seat) (See page SE-121)**
12. **INSTALL REAR NO. 2 SEAT ASSEMBLY RH (w/ Rear No. 2 Seat) (See page IR-55)**
13. **INSTALL NO. 2 SEAT LEG COVER LH (w/ Rear No. 2 Seat) (See page SE-123)**
14. **INSTALL NO. 2 SEAT LEG COVER RH (w/ Rear No. 2 Seat) (See page IR-56)**
15. **INSTALL NO. 2 SEAT HINGE COVER LH (w/ Rear No. 2 Seat) (See page SE-123)**
16. **INSTALL NO. 2 SEAT HINGE COVER RH (w/ Rear No. 2 Seat) (See page IR-56)**

17. **INSTALL DECK BOARD ASSEMBLY (w/o Rear No. 2 Seat)**
18. **INSTALL REAR FLOOR NO. 1 BOARD (w/o Rear No. 2 Seat)**
19. **INSTALL TONNEAU COVER ASSEMBLY (w/o Rear No. 2 Seat)**
20. **REMOVE PACKAGE TRAY TRIM POCKET SUB-ASSEMBLY (w/o Rear No. 2 Seat)**
21. **INSTALL REAR DOOR OPENING TRIM WEATHERSTRIP LH**
22. **INSTALL REAR DOOR SCUFF PLATE LH (See page IR-57)**
23. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
24. **CHECK SRS WARNING LIGHT**
    (a) Check the SRS warning light (see page RS-34).

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 (for Manual Seat) (See page SE-11)**
3. **REMOVE FRONT SEAT ASSEMBLY (for Power Seat) (See page SE-27)**
4. **REMOVE SEAT POSITION AIRBAG SENSOR**
   (a) Remove the seat slide position sensor protector from the seat position sensor.
   (b) Using a T30 "torx" socket, remove the "torx" screw and seat position sensor.
   (c) 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).

1. INSTALL SEAT POSITION AIRBAG SENSOR

(a) Using a 1 mm (0.039 in.) feeler gauge, install the seat position sensor.

NOTICE:

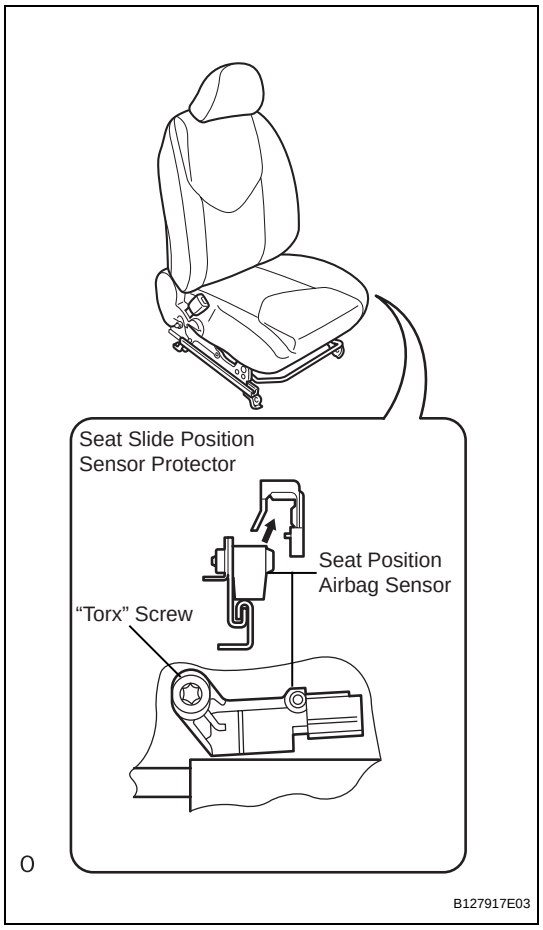
- **If the seat position sensor has been dropped, or there are any cracks, dents or other defects in the case or connector, replace the seat position sensor with a new one.**
- **When installing the seat position sensor, be careful that the SRS wiring does not interfere with other parts and that it is not pinched between other parts.**

HINT:
Be sure that the clearance between the seat position sensor and the seat rail is within 0.6 mm to 1.4 mm (0.023 to 0.055 in.).

(b) Using a T30 "torx" socket, tighten the "torx" screw to install the seat position sensor.
Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)

(c) Make sure that the clearance between the seat position sensor and the seat rail is within 0.6 mm to 1.4 mm (0.023 to 0.055 in.).

(d) Connect the connector.



(e) Install the seat slide position sensor protector to the seat position sensor.

2. **INSTALL FRONT SEAT ASSEMBLY (for Manual Seat) (See page SE-22)**

3. **INSTALL FRONT SEAT ASSEMBLY (for Power Seat) (See page SE-37)**

4. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

5. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-34).

RS

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

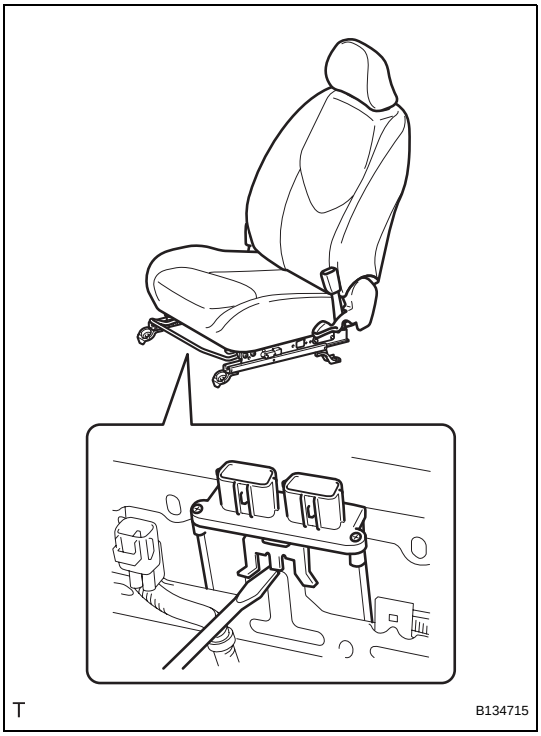
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. REMOVE FRONT SEAT ASSEMBLY (for Manual Seat) (See page SE-11)

3. REMOVE OCCUPANT CLASSIFICATION ECU

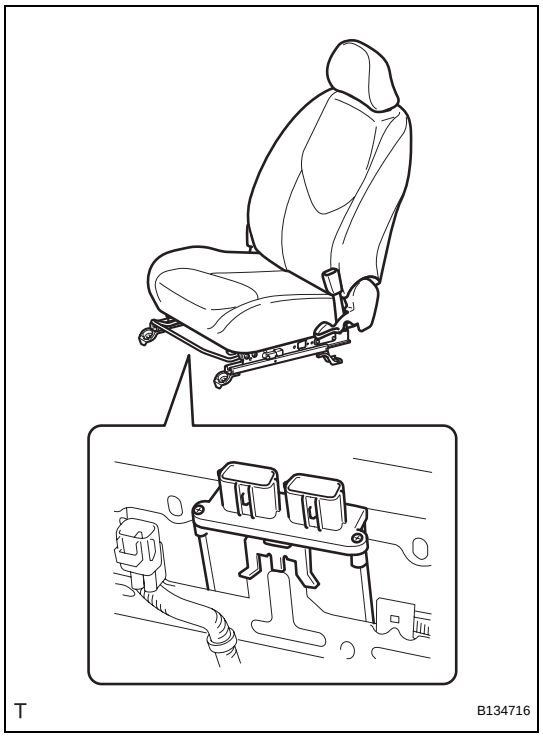
(a) Disconnect the 2 connectors from the occupant classification ECU.

(b) Using a screwdriver, remove the occupant classification ECU.



T B134715

INSTALLATION



1. INSTALL OCCUPANT CLASSIFICATION ECU

(a) Check that the ignition switch is off.

(b) Check that the negative battery (-) terminal is disconnected.

CAUTION:

After disconnecting the negative battery terminal, wait for at least 90 seconds before starting the operation.

(c) Install the occupant classification ECU.

(d) Connect the 2 connectors to the occupant classification ECU.

NOTICE:

- **If the occupant classification ECU 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 occupant classification ECU, 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 (for Manual Seat) (See page SE-23)

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

4. INSPECT SLIDE ADJUSTER LOCK (for Manual Seat)

5. INSPECT SEAT HEATER OPERATION (w/ Seat Heater System)

6. INSPECT SRS WARNING LIGHT

(a) Inspect the SRS warning light (see page RS-245).

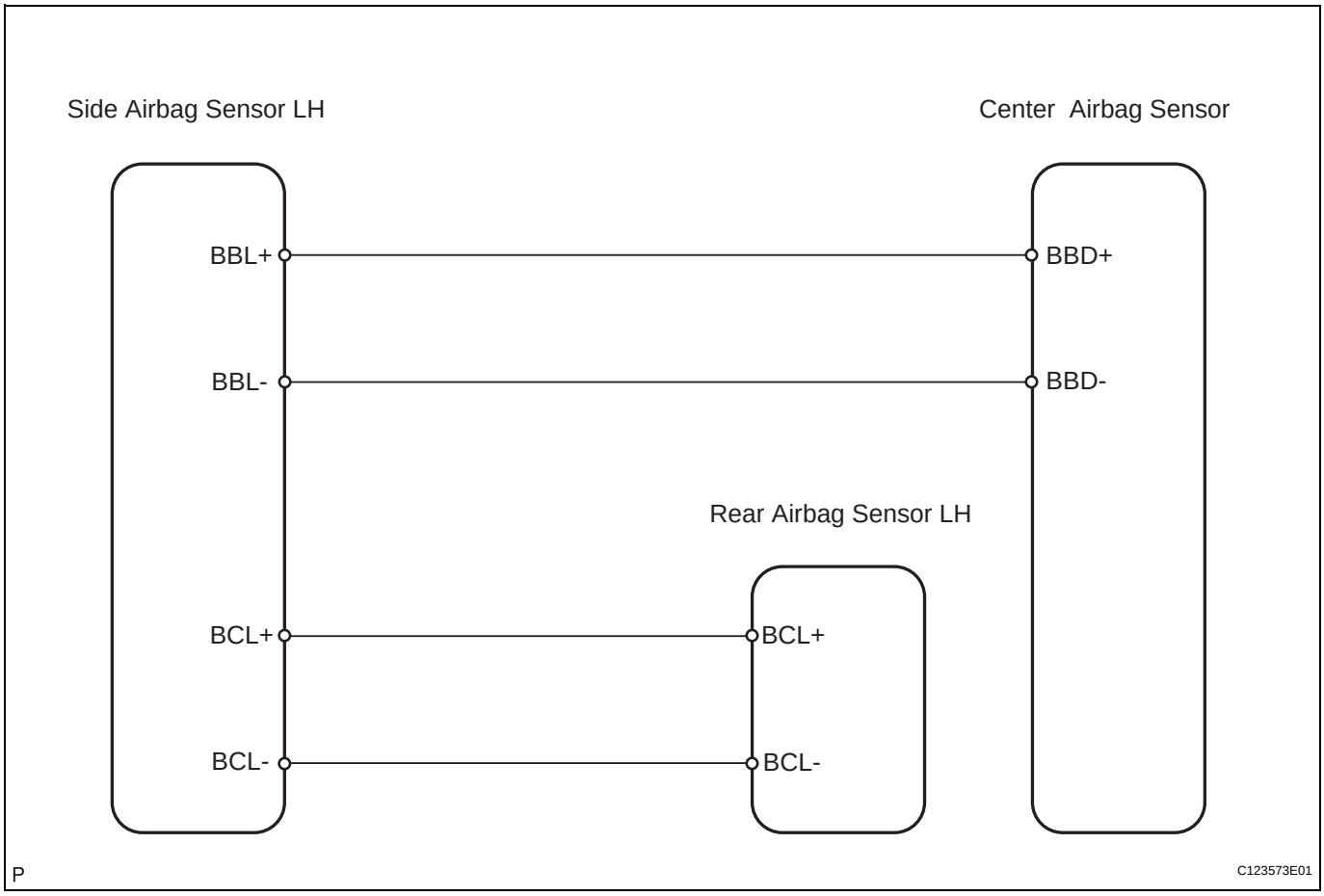
DTC	B1620/21	Driver Side - Side Airbag Sensor Circuit Malfunction

DESCRIPTION

The side airbag sensor LH consists of part including the diagnostic circuit and the lateral deceleration sensor.
When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1620/21 is set when a malfunction is detected in the side airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1620/21	When one of following conditions is met: • Side airbag sensor LH malfunction • Center airbag sensor malfunction	• Side airbag sensor LH • Center airbag sensor

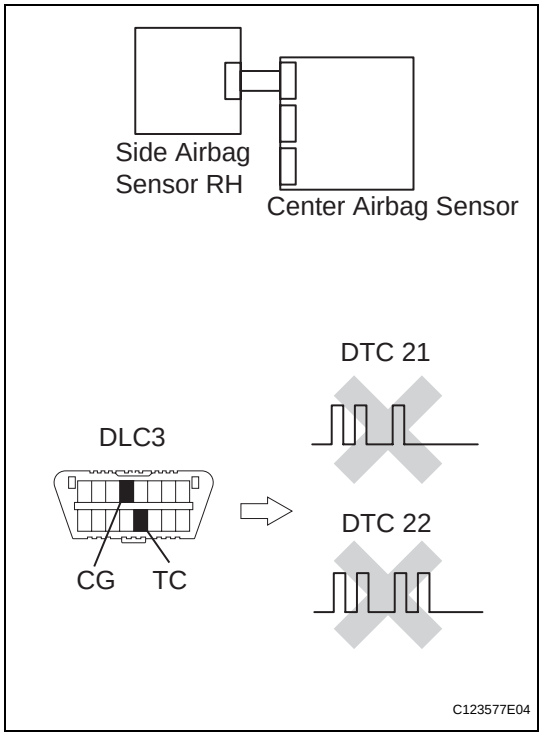
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK SIDE AIRBAG SENSOR LH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the side airbag sensor RH and the side airbag sensor LH, and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1620/21 and B1625/22 are not output.	A
DTC B1620/21 is output.	B
DTC B1625/22 is output.	C

DTCs other than DTC B1620/21 and B1625/22 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE SIDE AIRBAG SENSOR LH**

A

USE SIMULATION METHOD TO CHECK

RS

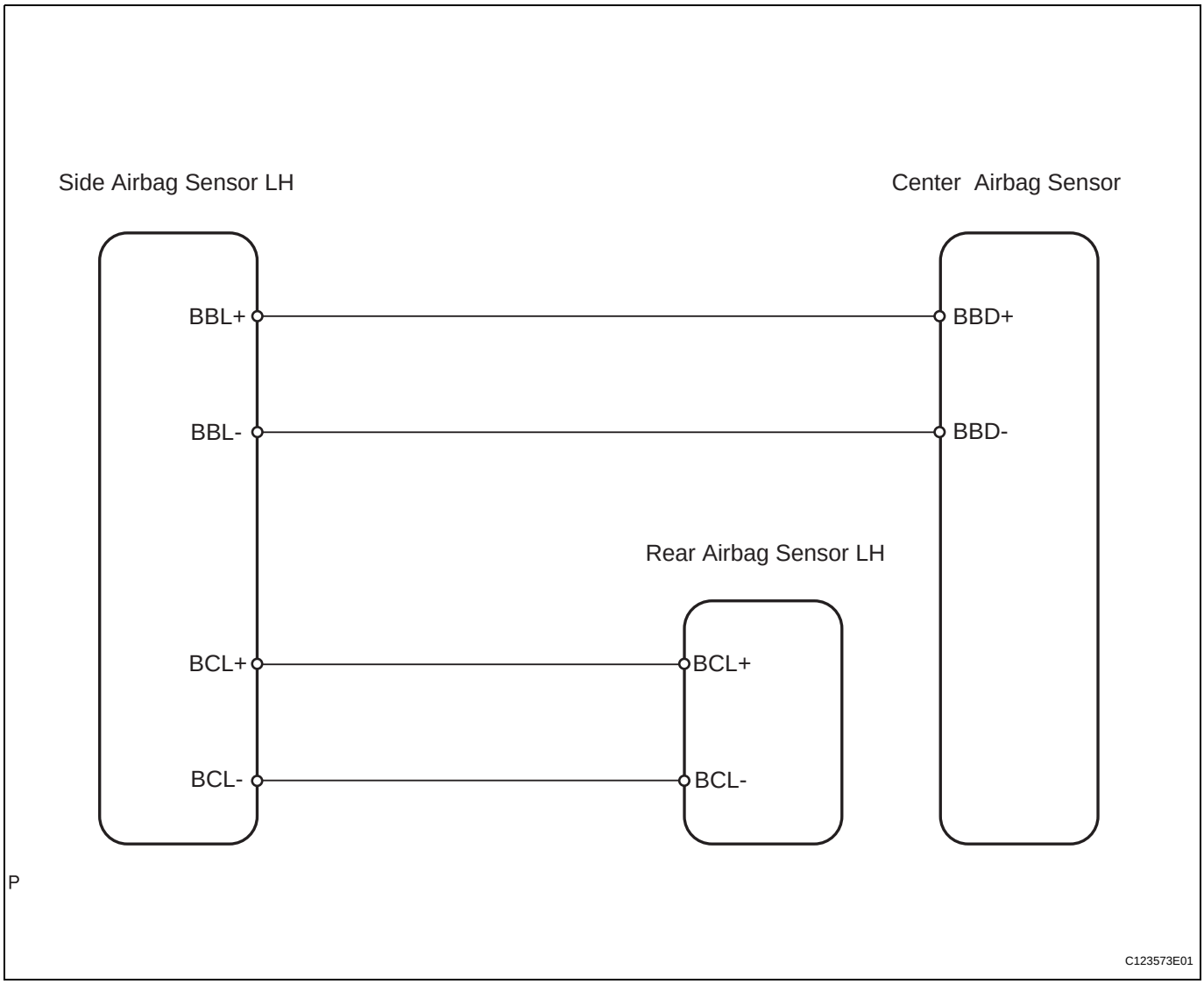
DTC	B1622/81	Lost Communication with Driver Side - Side Airbag Sensor Assembly

DESCRIPTION

The side airbag sensor LH consists of part including the diagnostic circuit and the lateral deceleration sensor.
When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1622/81 is set when a malfunction is detected in the side airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1622/81	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in side airbag sensor LH circuit for 2 seconds. • Side airbag sensor LH malfunction • Center airbag sensor malfunction	• Floor wire • Side airbag sensor LH • Center airbag sensor

WIRING DIAGRAM



RS

P

INSPECTION PROCEDURE

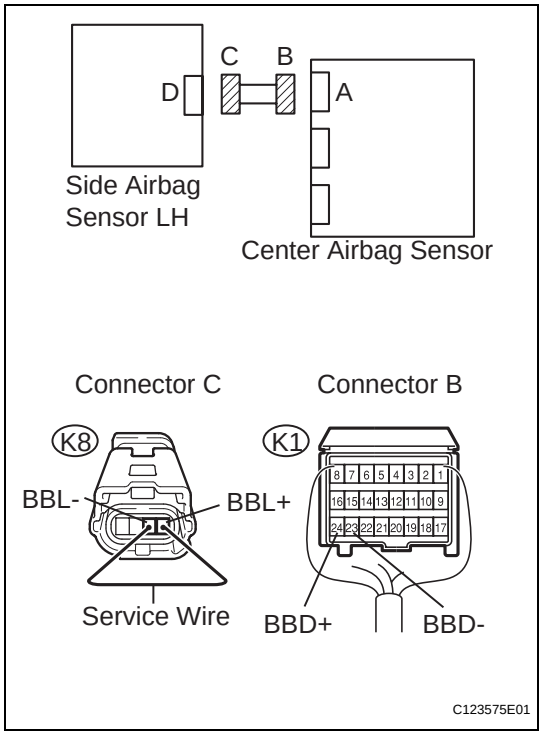
1	CHECK CONNECTION OF CONNECTOR

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

NG → **CONNECT CONNECTOR**

OK

2	CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the center airbag sensor and the side airbag sensor LH.
(b) Using a service wire, connect K8-4 (BBL+) and K8-3 (BBL-) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

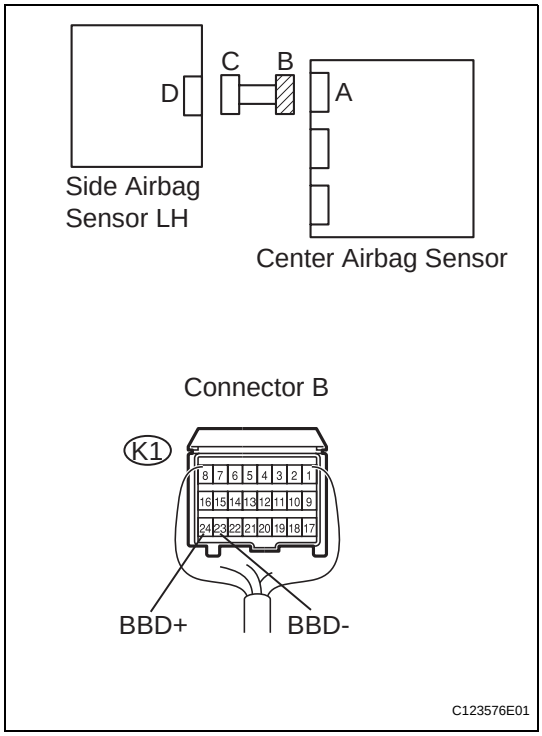
Tester Connection	Specified Condition
K1-24 (BBD+) - K1-23 (BBD-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

3	CHECK FLOOR WIRE (SHORT)



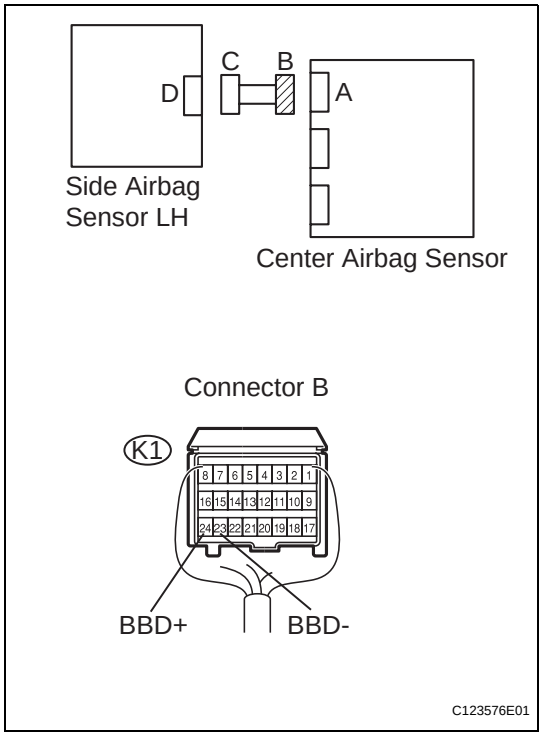
(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K1-24 (BBD+) - K1-23 (BBD-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4	CHECK FLOOR WIRE (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

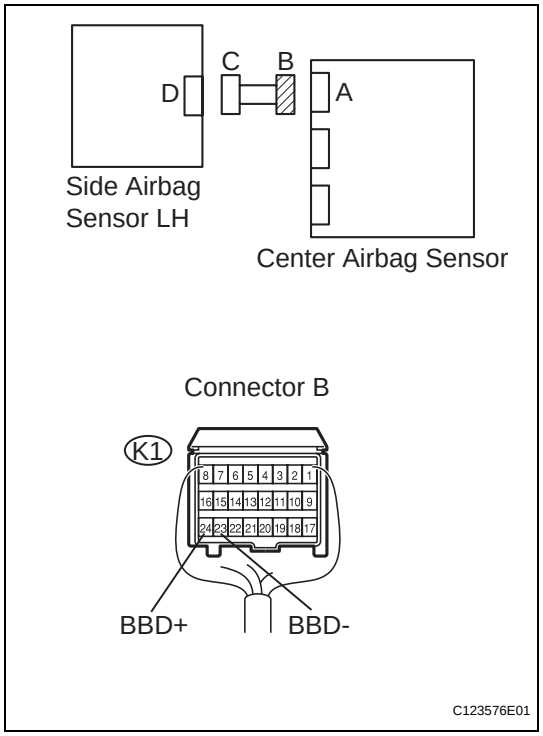
Tester Connection	Specified Condition
K1-24 (BBD+) - Body ground	Below 1 V
K1-23 (BBD-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

5 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.

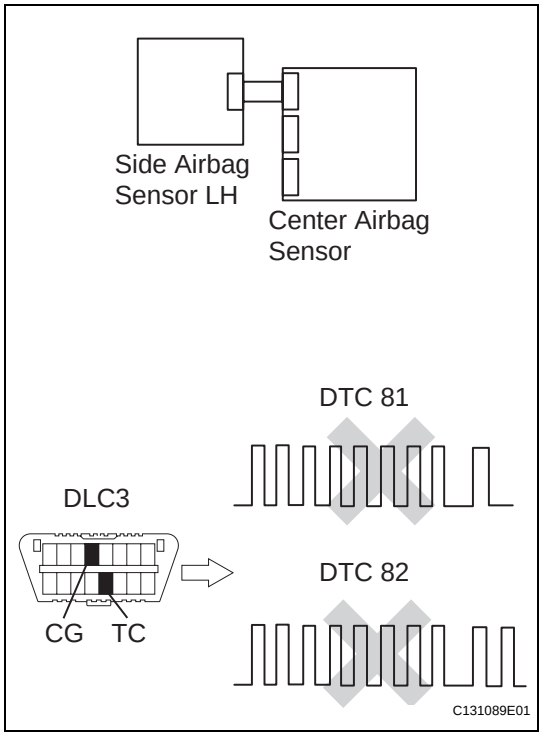
Standard resistance

Tester Connection	Specified Condition
K1-24 (BBD+) - Body ground	1 MΩ or Higher
K1-23 (BBD-) - Body ground	1 MΩ or Higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK SIDE AIRBAG SENSOR LH



(a) Connect the connectors to the center airbag sensor.
(b) Interchange the side airbag sensor RH with the side airbag sensor LH and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check for DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1622/81 and B1627/82 are not output.	A
DTC B1627/82 is output.	B
DTC B1622/81 is output.	C

HINT:
DTCs other than DTC B1622/81 and B1627/82 may be output at this time, but they are not related to this check.

B → **REPLACE SIDE AIRBAG SENSOR LH**

RS

C → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

A

USE SIMULATION METHOD TO CHECK

DTC	**B1623/81**	**Driver Side - Side Airbag Sensor Assembly Initialization Incomplete**

DTC	**B1632/81**	**Lost Communication with Driver Side Rear Airbag Sensor**

DTC	**B1633/81**	**Driver Side Rear Airbag Sensor Initialization Incomplete**

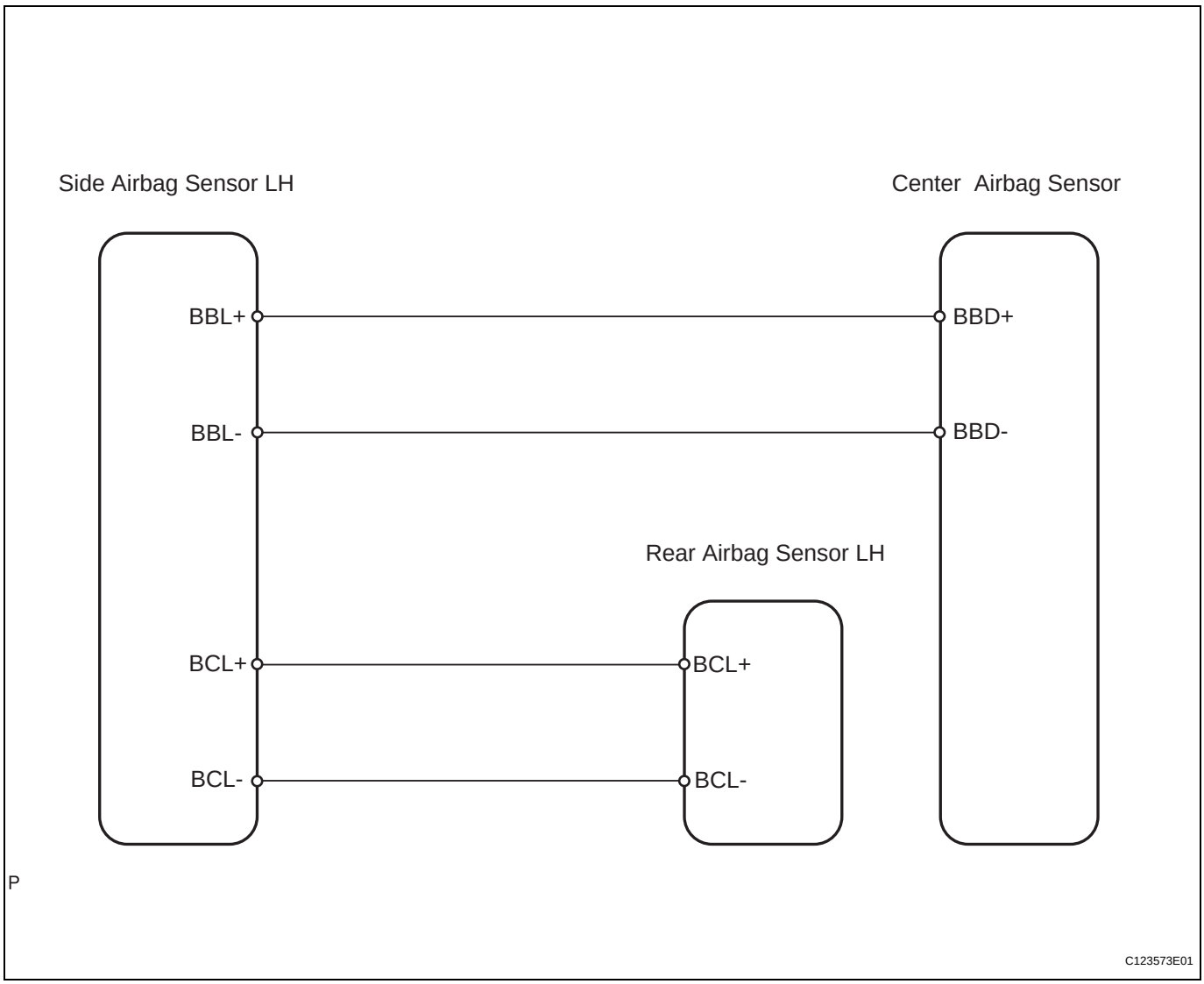
DTC	**B1642/81**	**Lost Communication with Driver Side Satellite Sensor Bus**

DESCRIPTION

The side airbag sensor LH consists of part including the diagnostic circuit and the lateral deceleration sensor.
When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1623/81, B1632/81, B1633/81 or B1642/81 is set when a malfunction is detected in the side airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1623/81 B1632/81 B1633/81 B1642/81	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in side airbag sensor LH circuit for 2 seconds. • Side airbag sensor LH malfunction • Center airbag sensor malfunction	• Floor wire • Side airbag sensor LH • Center airbag sensor

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

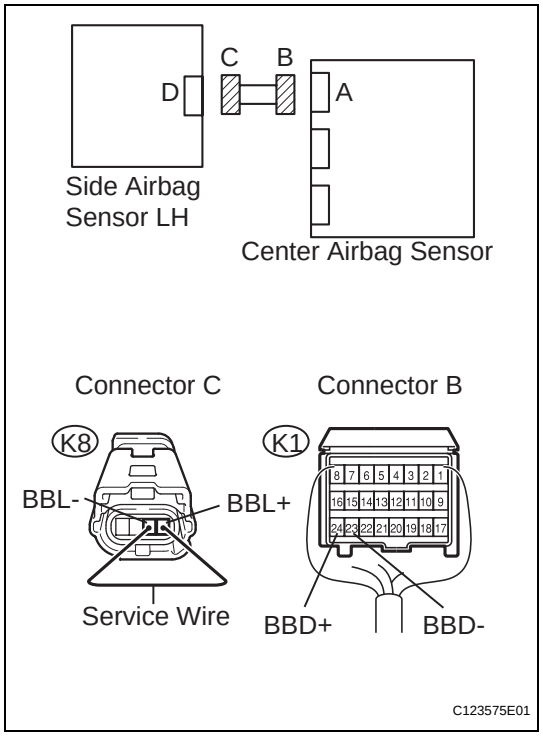
1	CHECK CONNECTION OF CONNECTOR

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

NG → **CONNECT CONNECTOR**

OK

2 CHECK FLOOR WIRE (OPEN)



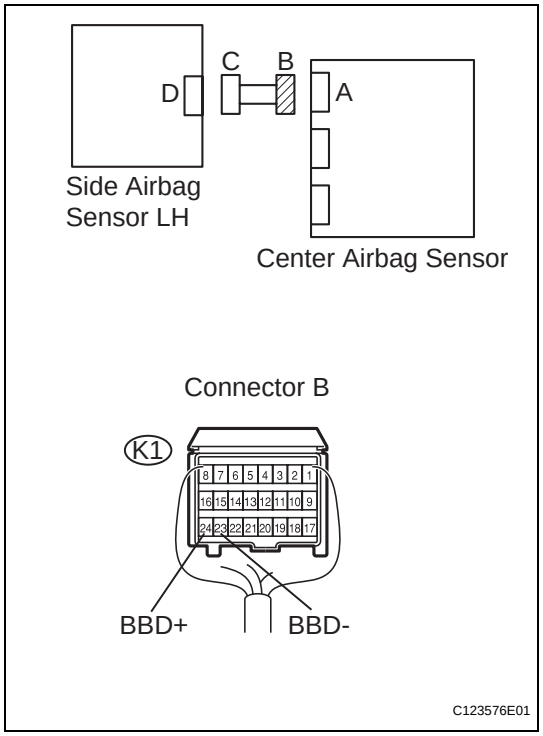
(a) Disconnect the connectors from the center airbag sensor and the side airbag sensor LH.
(b) Using a service wire, connect K8-4 (BBL+) and K8-3 (BBL-) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K1-24 (BBD+) - K1-23 (BBD-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK FLOOR WIRE (SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

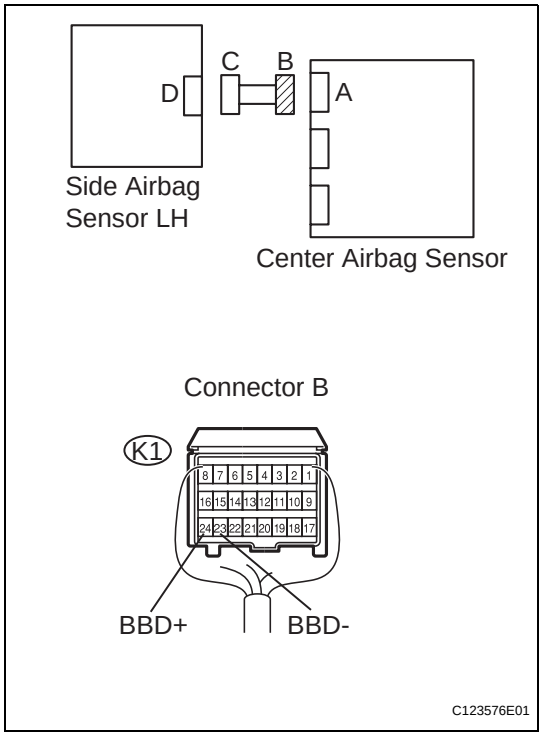
Tester Connection	Specified Condition
K1-24 (BBD+) - K1-23 (BBD-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

4 CHECK FLOOR WIRE (TO B+)



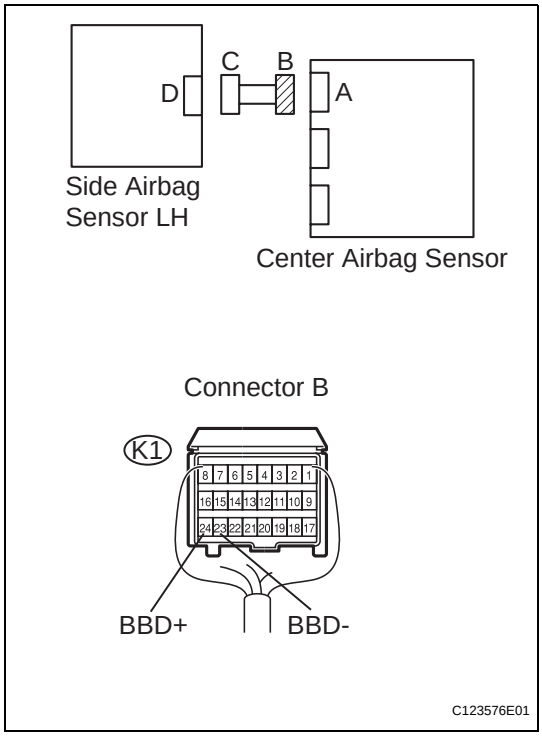
(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
K1-24 (BBD+) - Body ground	Below 1 V
K1-23 (BBD-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

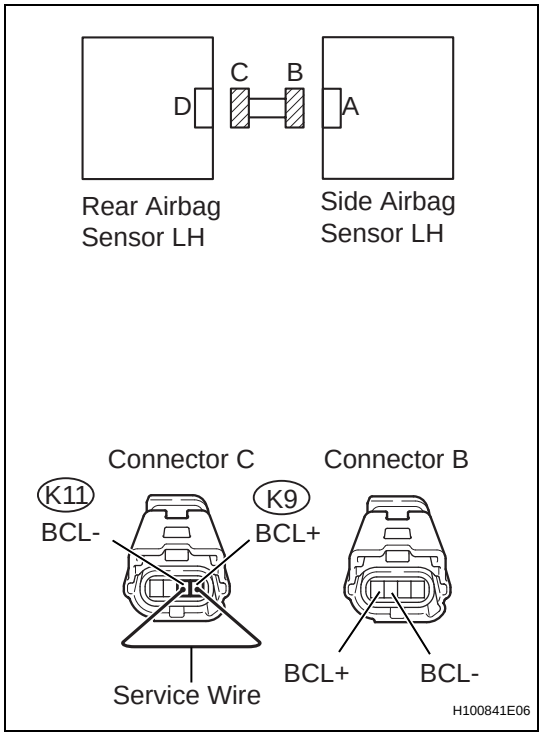
Tester Connection	Specified Condition
K1-24 (BBD+) - Body ground	1 MΩ or higher
K1-23 (BBD-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

6 CHECK FLOOR WIRE (OPEN)



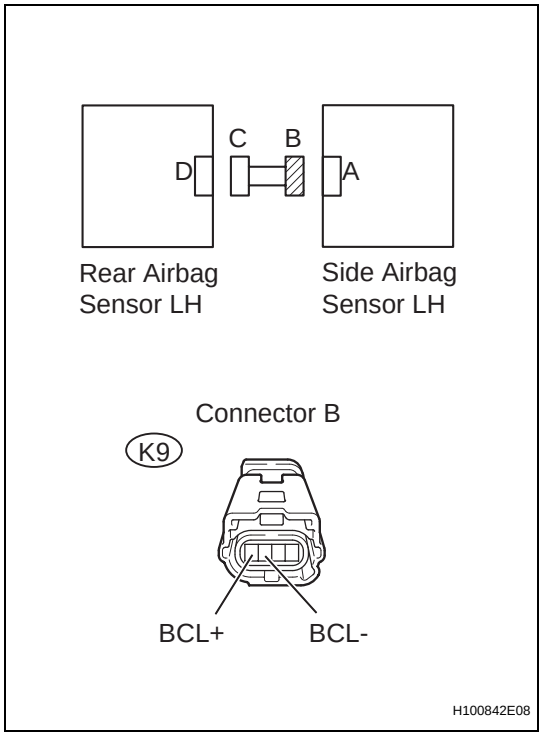
(a) Disconnect the connectors from the side airbag sensor LH and the rear airbag sensor LH.
(b) Using a service wire, connect K11-1 (BCL-) and K11-2 (BCL+) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K9-1 (BCL+) - K9-2 (BCL-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7 CHECK FLOOR WIRE (SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

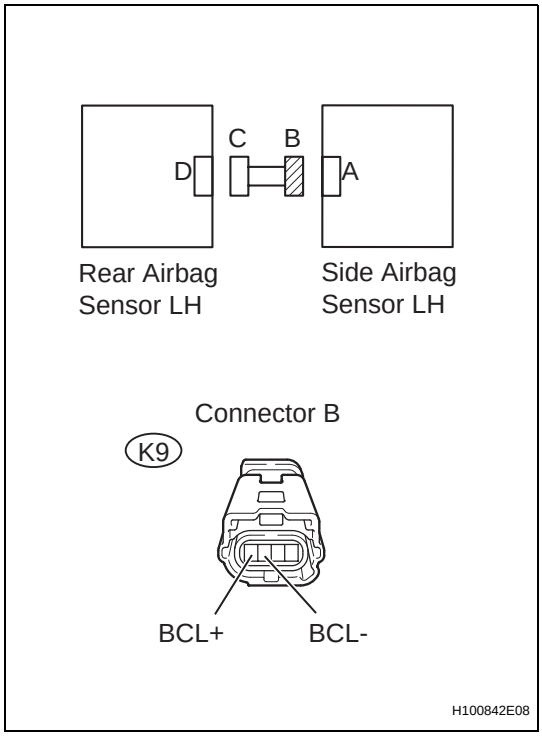
Tester Connection	Specified Condition
K9-1 (BCL+) - K9-2 (BCL-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

8 CHECK FLOOR WIRE (TO B+)



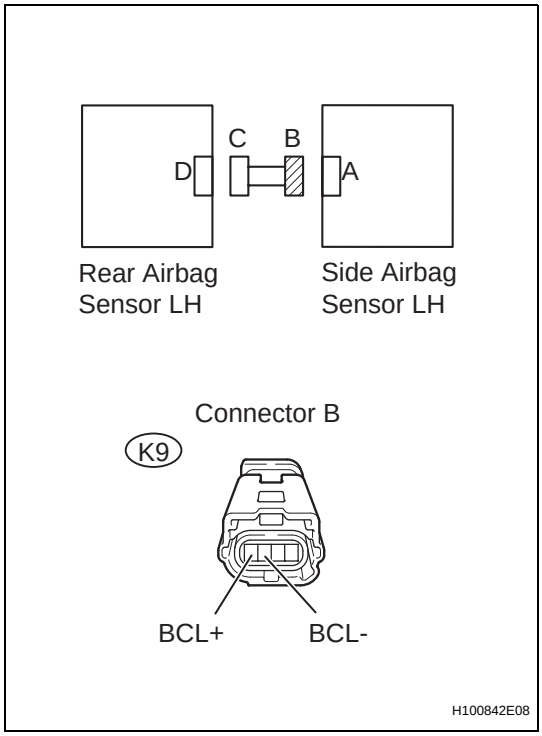
(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
K9-1 (BCL+) - Body ground	Below 1 V
K9-2 (BCL-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

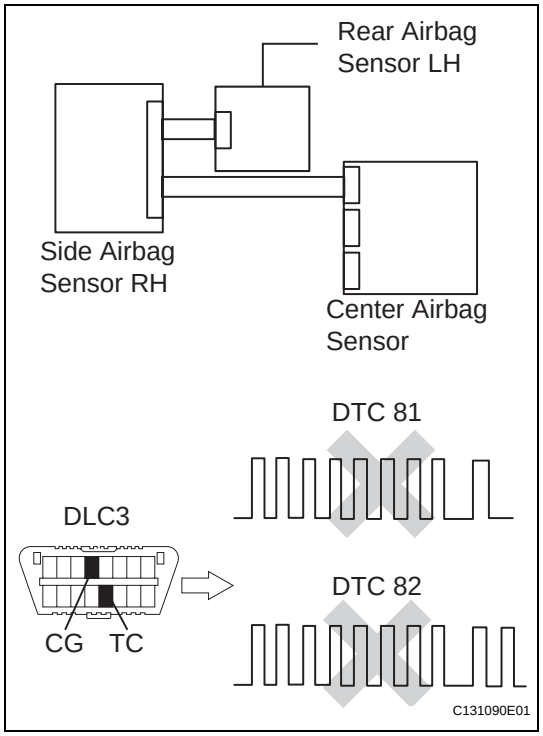
Tester Connection	Specified Condition
K9-1 (BCL+) - Body ground	1 MΩ or higher
K9-2 (BCL-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

10 CHECK SIDE AIRBAG SENSOR RH



(a) Connect the connectors to the center airbag sensor.
(b) Interchange the side airbag sensor RH with the side airbag sensor LH and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check for DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 is not output	A
DTC B1623/81, B1632/81, B1633/81 and B1642/81 are output	B
DTC B1628/82, B1637/82, B1638/82 and B1647/82 are output	C

HINT:
DTCs other than DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 may be output at this time, but they are not relate to this check.

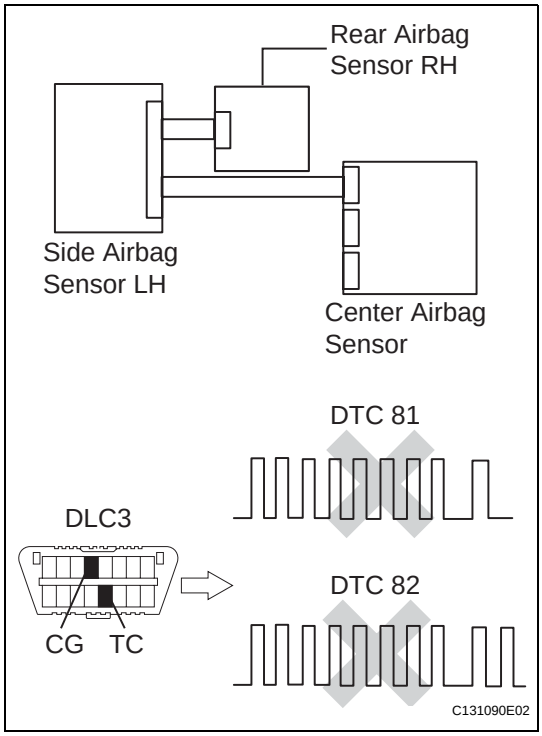
B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE SIDE AIRBAG SENSOR RH**

A

RS

11	CHECK REAR AIRBAG SENSOR RH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the rear airbag sensor RH with the rear airbag sensor LH and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 is not output	A
DTC B1623/81, B1632/81, B1633/81 and B1642/81 are output	B
DTC B1628/82, B1637/82, B1638/82 and B1647/82 are output	C

HINT:
DTCs other than DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 may be output at this time, but they are not relate to this check.

RS

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE REAR AIRBAG SENSOR RH**

A

USE SIMULATION METHOD TO CHECK

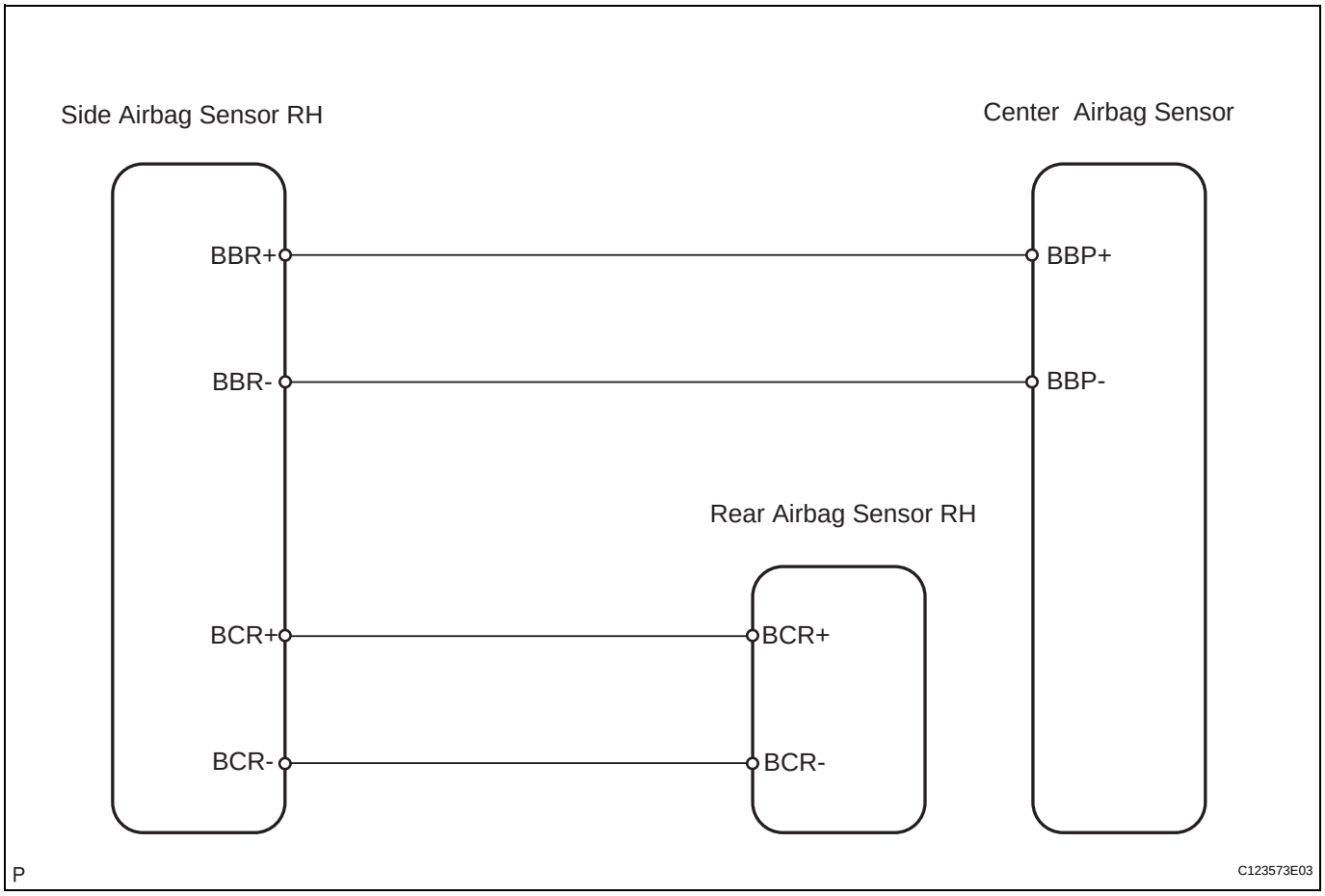
DTC	B1625/22	Front Passenger Side - Side Airbag Sensor Circuit Malfunction

DESCRIPTION

The side airbag sensor RH consists of parts including the diagnostic circuit and the lateral deceleration sensor.
When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1625/22 is set when a malfunction is detected in the side airbag sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1625/22	When one of following conditions is met: • Side airbag sensor RH malfunction • Center airbag sensor malfunction	• Side airbag sensor RH • Center airbag sensor

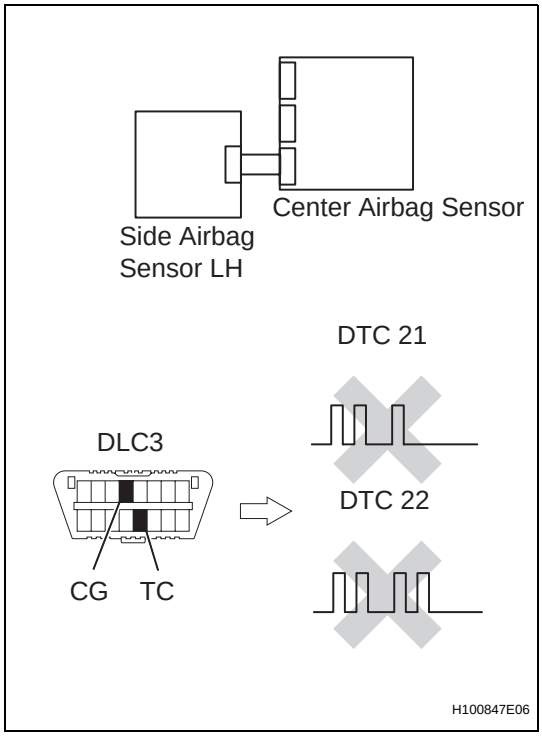
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK SIDE AIRBAG SENSOR RH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the side airbag sensor RH and the side airbag sensor LH, and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1620/21 and B1625/22 are not output.	A
DTC B1620/21 is output.	B
DTC B1625/22 is output.	C

DTCs other than DTC B1620/21 and B1625/22 may be output at this time, but they are not related to this check.

B → **REPLACE SIDE AIRBAG SENSOR RH**

C → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

RS

A

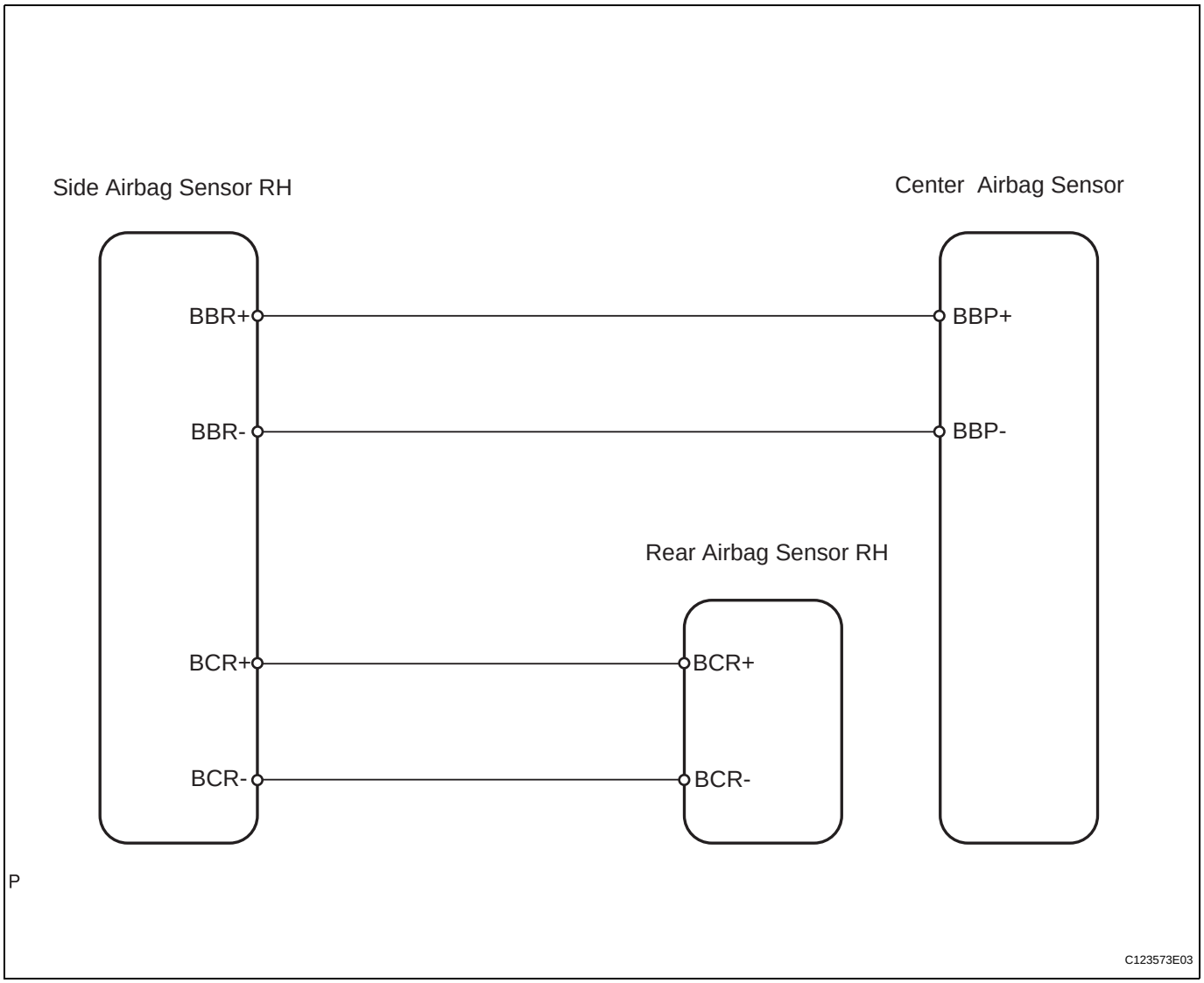
USE SIMULATION METHOD TO CHECK

DTC	B1627/82	Lost Communication with Front Passenger Side - Side Airbag Sensor Assembly

DESCRIPTION

The side airbag sensor RH consists of parts including the diagnostic circuit and the lateral deceleration sensor.
When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1627/82 is set when a malfunction is detected in the side airbag sensor RH circuit.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK CONNECTION OF CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.

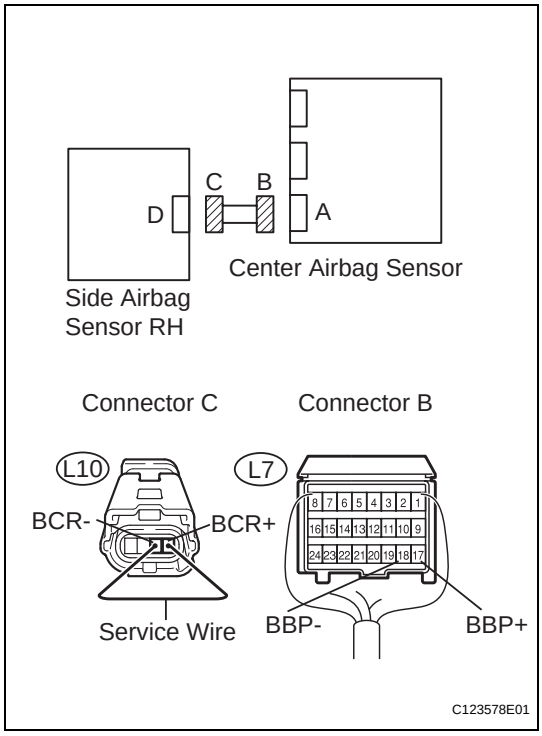
RS

(c) Check that the connectors are properly connected to the center airbag sensor, rear airbag sensor RH and the side airbag sensor RH.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

2 CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the center airbag sensor and the side airbag sensor RH.
(b) Using a service wire, connect L10-4 (BBR+) and L10-3 (BBR-) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connectors.
Standard resistance

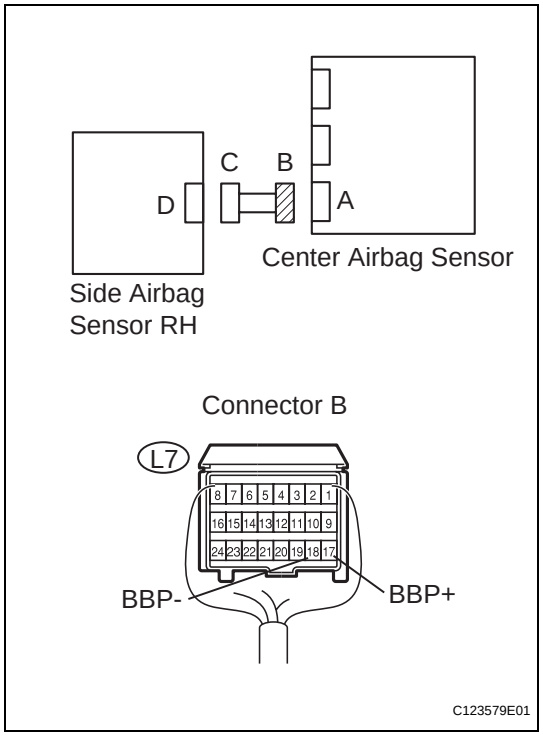
Tester Connection	Specified Condition
L7-17 (BBP+) - L7-18 (BBP-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

3 CHECK FLOOR WIRE (SHORT)



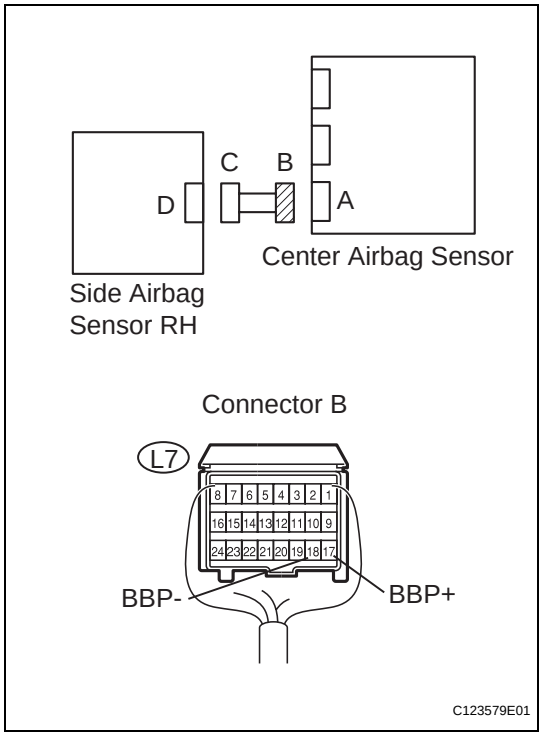
(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
L7-17 (BBP+) - L7-18(BBP-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

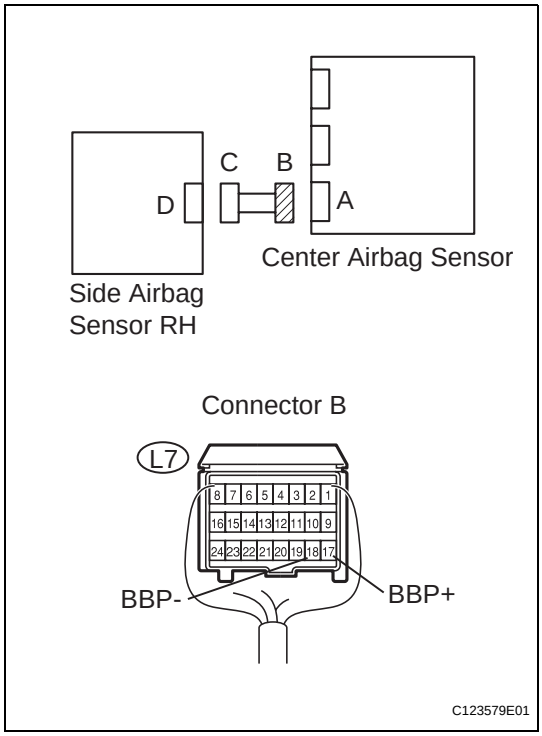
Tester Connection	Specified Condition
L7-17 (BBP+) - Body ground	Below 1 V
L7-18 (BBP-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

5 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.

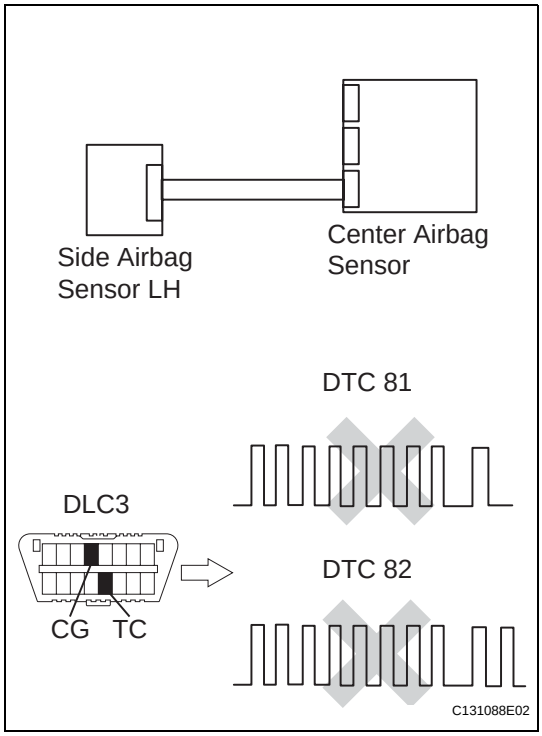
Standard resistance

Tester Connection	Specified Condition
L7-17 (BBP+) - Body ground	1 MΩ or higher
L7-18 (BBP-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK SIDE AIRBAG SENSOR RH



(a) Connect the connectors to the center airbag sensor.
(b) Interchange the side airbag sensor RH with the side airbag sensor LH and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check for DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1622/81 and B1627/82 are not output	A
DTC B1622/81 is output	B
DTC B1627/82 is output	C

HINT:
DTCs other than DTC B1622/81 and B1627/82 may be output at this time, but they are not related to this check.

B → **REPLACE SIDE AIRBAG SENSOR RH**

C → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

A

USE SIMULATION METHOD TO CHECK

DTC	**B1628/82**	**Front Passenger Side - Side Airbag Sensor Assembly Initialization Incomplete**

DTC	**B1637/82**	**Lost Communication with Passenger Side Rear Airbag Sensor**

DTC	**B1638/82**	**Passenger Side Rear Airbag Sensor Initialization Incomplete**

DTC	**B1647/82**	**Lost Communication with Front Passenger Side Satellite Sensor Bus**

DESCRIPTION

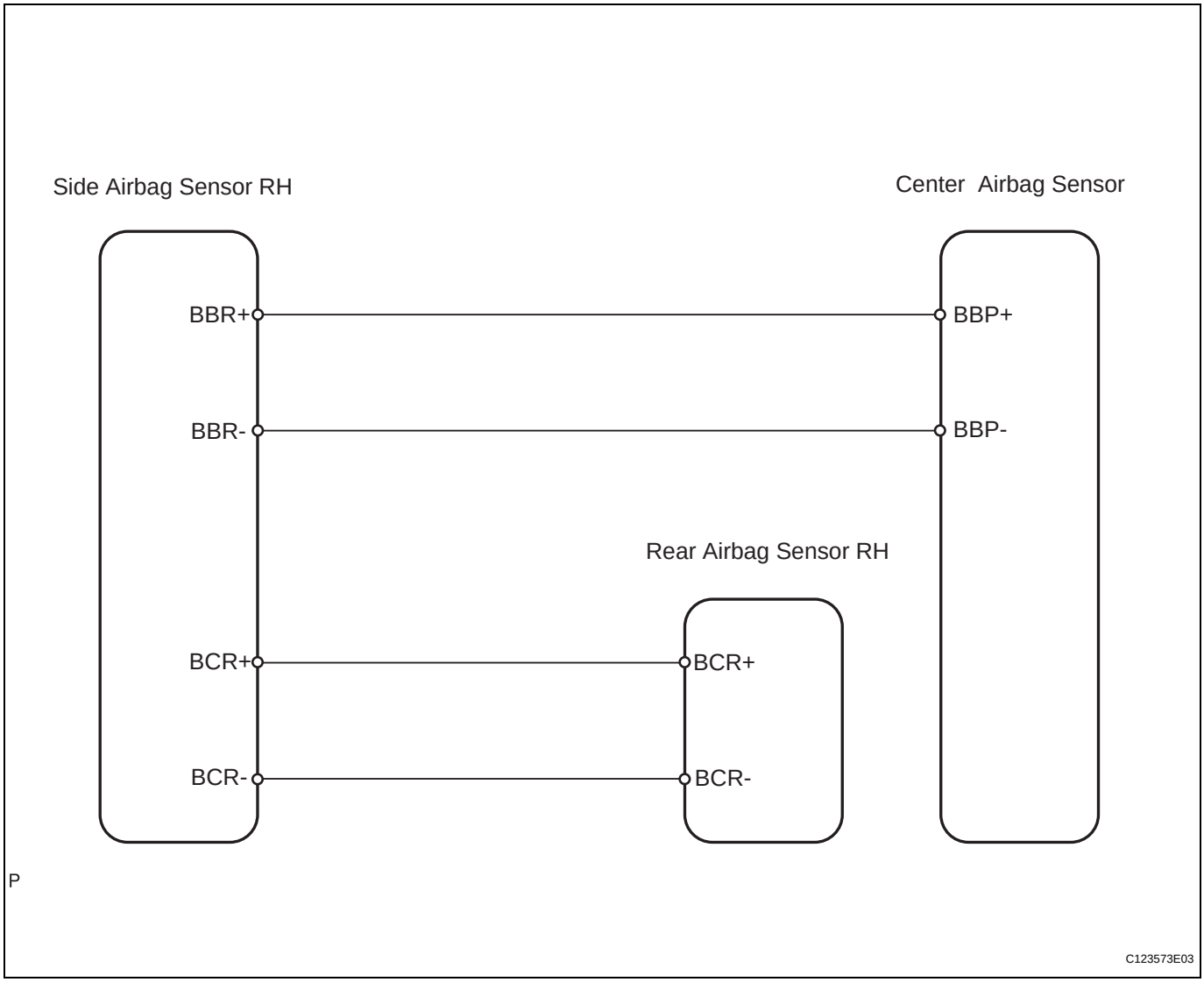
The side airbag sensor RH consists of parts including the diagnostic circuit and the lateral deceleration sensor.

When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1628/82, B1637/82, B1638/82 or B1647/82 is set when a malfunction is detected in the side airbag sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1628/82 B1637/82 B1638/82 B1647/82	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in side airbag sensor RH circuit for 2 seconds. • Side airbag sensor RH malfunction • Center airbag sensor malfunction	• Floor wire • Side airbag sensor RH • Center airbag sensor

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

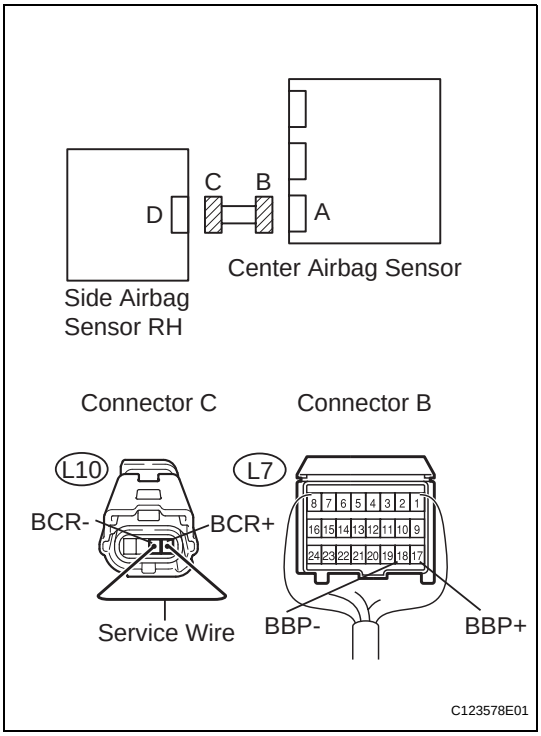
1	CHECK CONNECTION OF CONNECTOR

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

NG → **CONNECT CONNECTOR**

OK

2 CHECK FLOOR WIRE (OPEN)



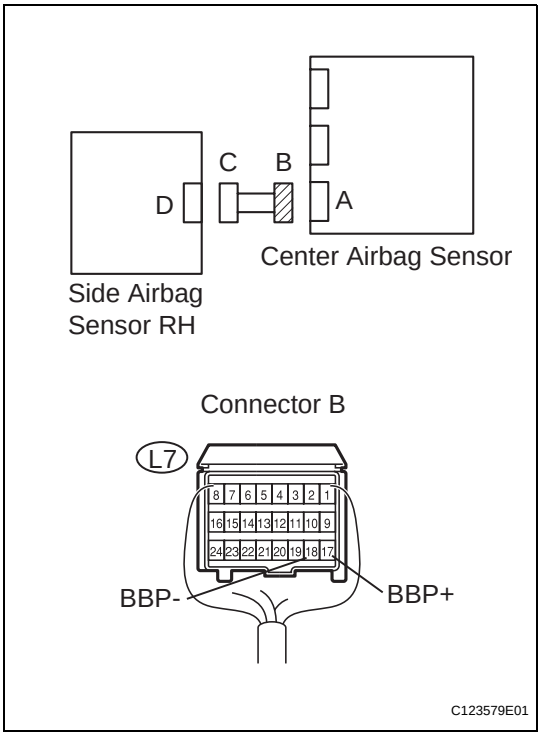
(a) Disconnect the connectors from the center airbag sensor and the side airbag sensor RH.
(b) Using a service wire, connect L10-4 (BBR+) and L10-3 (BBR-) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
L7-17 (BBP+) - L7-18 (BBP-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK FLOOR WIRE (SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

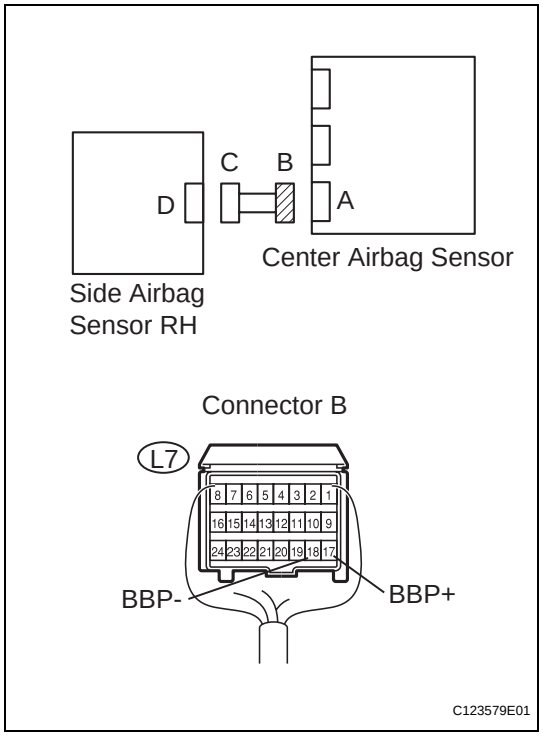
Tester Connection	Specified Condition
L7-17 (BBP+) - L7-18(BBP-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

4 CHECK FLOOR WIRE (TO B+)



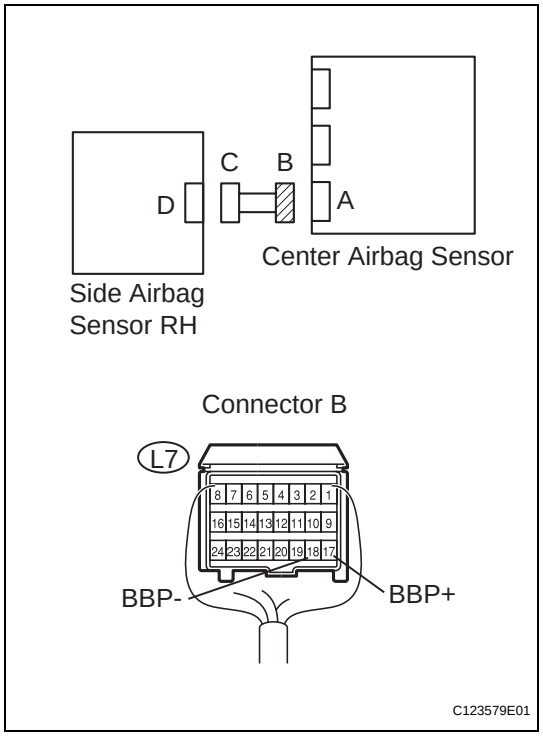
(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
L7-17 (BBP+) - Body ground	Below 1 V
L7-18 (BBP-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

5 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

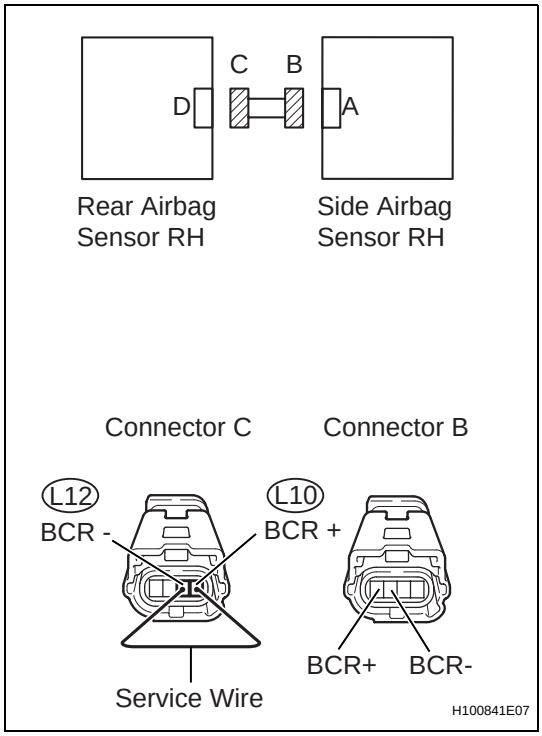
Tester Connection	Specified Condition
L7-17 (BBP+) - Body ground	1 MΩ or higher
L7-18 (BBP-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

6 CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the side airbag sensor RH and the rear airbag sensor RH.
(b) Using a service wire, connect L12-1 (BCR-) and L12-2 (BCR+) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

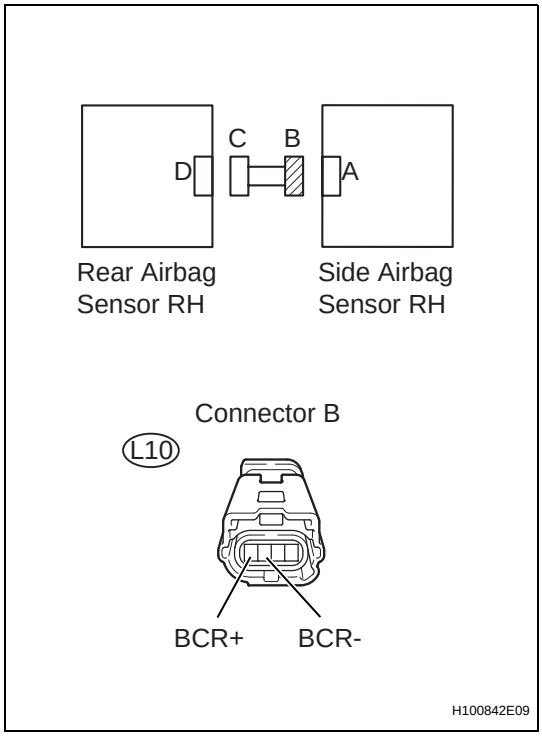
Tester Connection	Specified Condition
L10-1 (BCR+) - L10-2 (BCR-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

7 CHECK FLOOR WIRE (SHORT)

RS



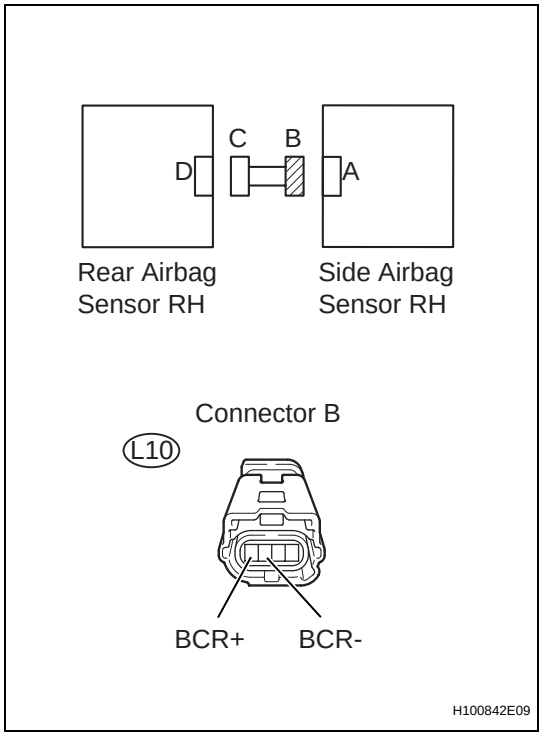
(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connectors.
Standard resistance

Tester Connection	Specified Condition
L10-1 (BCR+) - L10-2 (BCR-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

8 CHECK FLOOR WIRE (TO B+)



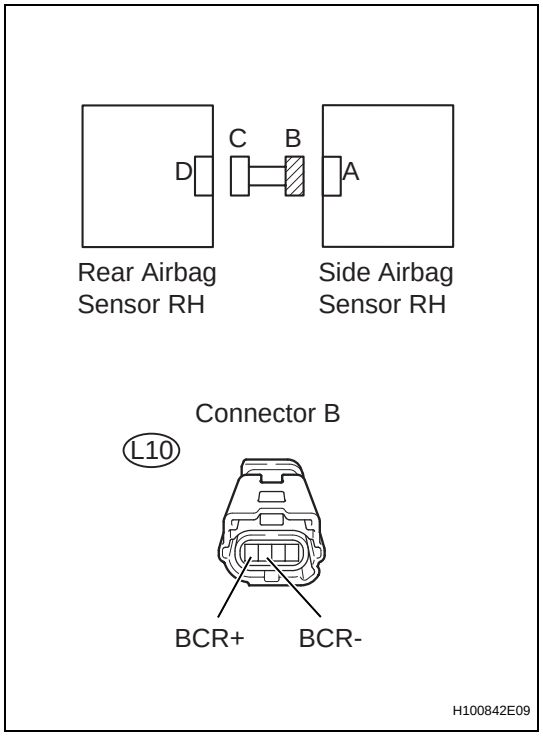
(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
L10-1 (BCR+) - Body ground	Below 1 V
L10-2 (BCR-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

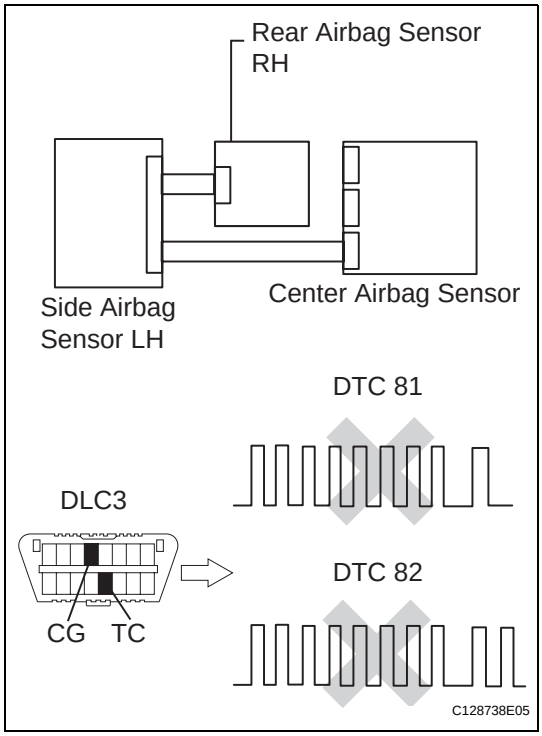
Tester Connection	Specified Condition
L10-1 (BCR+) - Body ground	1 MΩ or higher
L10-2 (BCR-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

10 CHECK SIDE AIRBAG SENSOR RH



(a) Connect the connectors to the center airbag sensor .
(b) Interchange the side airbag sensor LH with the side airbag sensor RH and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check for DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 are not output	A
DTC B1628/82, B1637/82, B1638/82 and B1647/82 are output	B
DTC B1623/81, B1632/81, B1633/81 and B1642/81 are output	C

HINT:
DTCs other than DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 may be output at this time, but they are not related to this check.

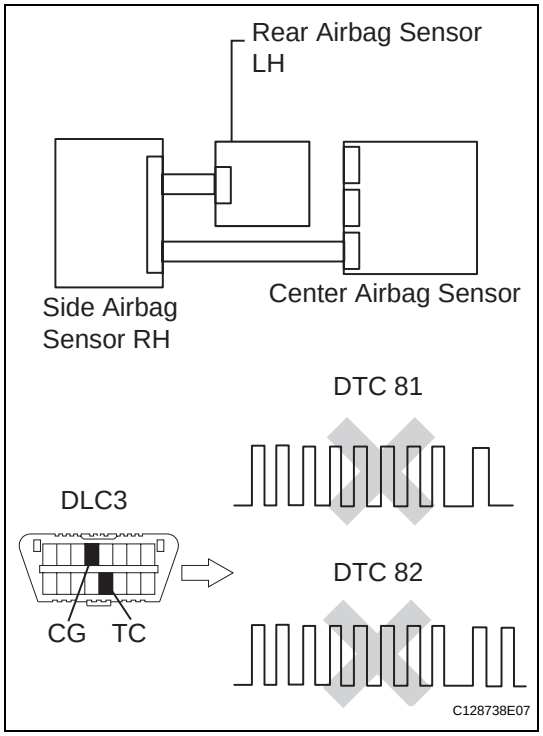
B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE SIDE AIRBAG SENSOR RH**

A

RS

11 CHECK REAR AIRBAG SENSOR RH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the rear airbag sensor RH with the rear airbag sensor LH and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 are not output	A
DTC B1628/82, B1637/82, B1638/82 and B1647/82 are output	B
DTC B1623/81,B1632/81, B1633/81 and B1642/81 are output	C

HINT:
DTCs other than DTC B1623/81, B1632/81, B1633/81, B1642/81, B1628/82, B1637/82, B1638/82 and B1647/82 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE REAR AIRBAG SENSOR RH**

A

USE SIMULATION METHOD TO CHECK

RS

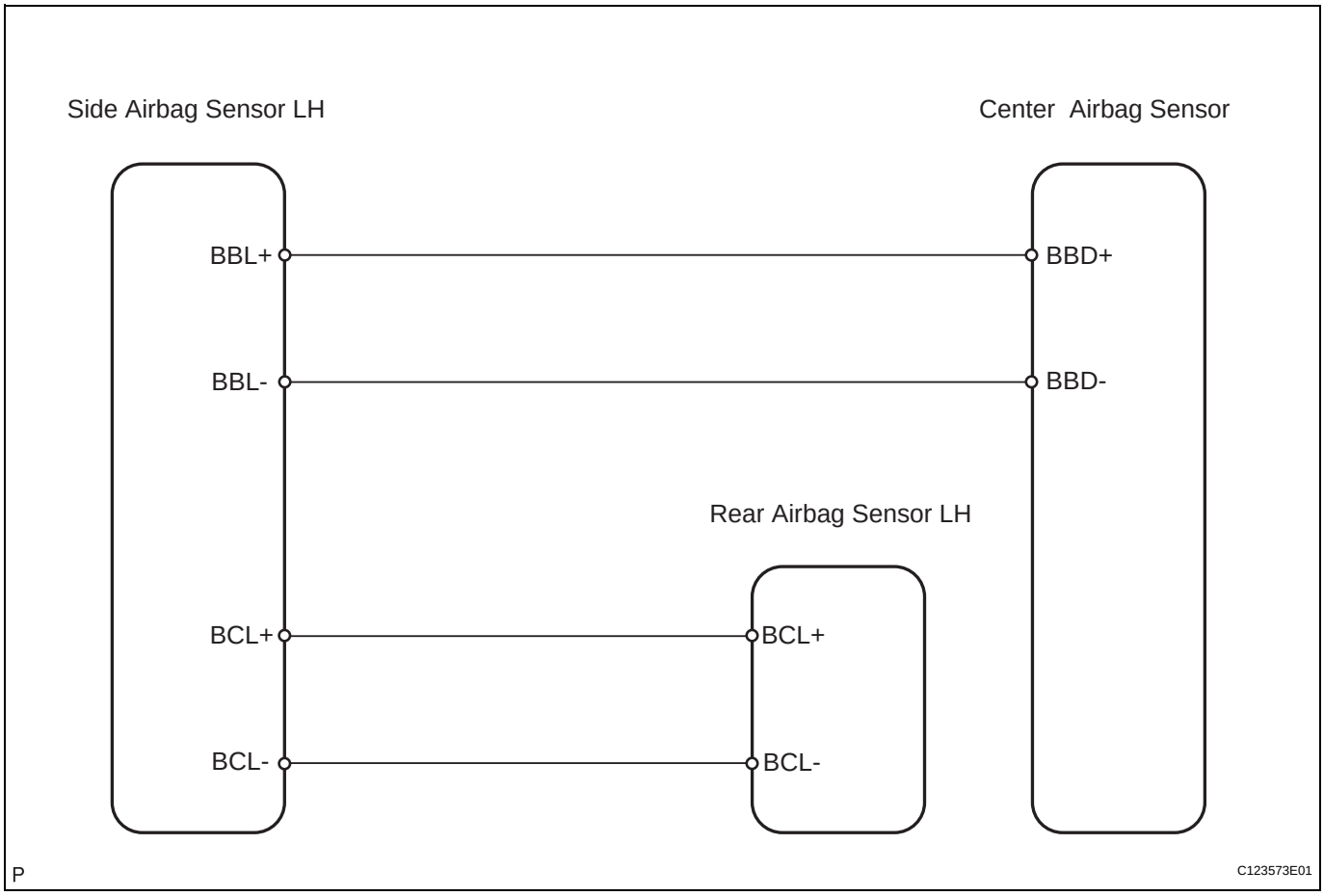
DTC	B1630/23	Driver Side Rear Airbag Sensor Circuit Malfunction

DESCRIPTION

The rear airbag sensor LH consists of parts including the diagnostic circuit and the lateral deceleration sensor.
When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1630/23 is recorded when a malfunction is detected in the rear airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1630/23	When one of following conditions is met: • Rear airbag sensor LH malfunction • Center airbag sensor malfunction	• Rear airbag sensor LH • Center airbag sensor

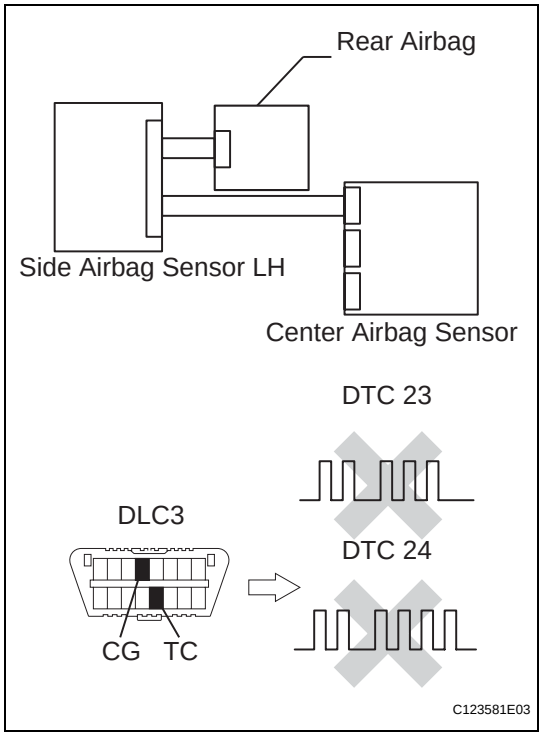
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK REAR AIRBAG SENSOR LH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the side airbag sensor RH with the side airbag sensor LH and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1630/23 and B1635/24 are not output.	A
DTC B1630/23 is output.	B
DTC B1635/24 is output.	C

HINT:
DTCs other than DTC B1630/23 and B1635/24 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE REAR AIRBAG SENSOR LH**

A

USE SIMULATION METHOD TO CHECK

RS

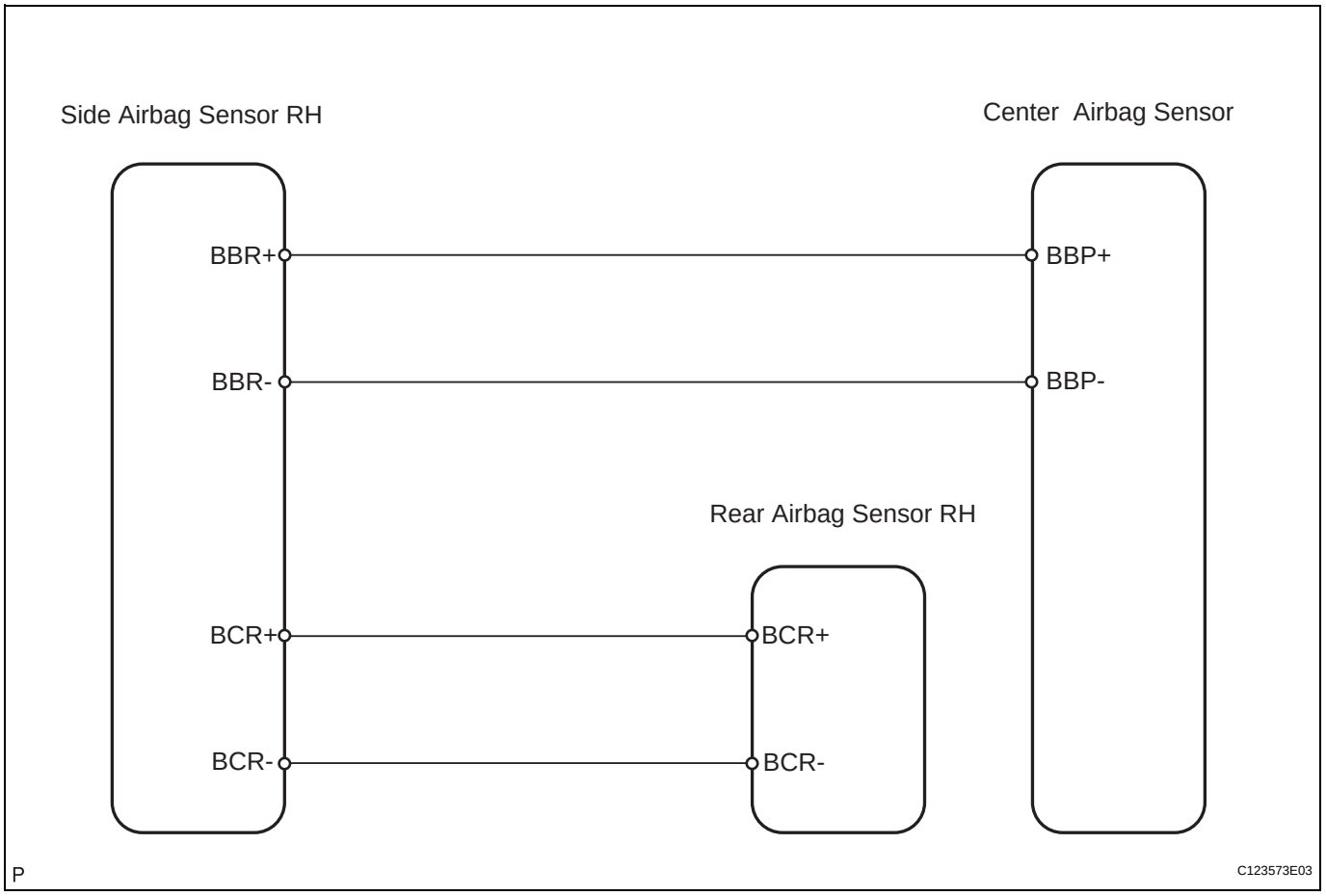
DTC	B1635/24	Front Passenger Side Rear Airbag Sensor Circuit Malfunction

DESCRIPTION

The rear airbag sensor RH consists of parts including the diagnostic circuit and the lateral deceleration sensor.
When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1635/24 is recorded when a malfunction is detected in the rear airbag sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1635/24	When one of following conditions is met: • Rear airbag sensor RH malfunction • Center airbag sensor malfunction	• Rear airbag sensor RH • Center airbag sensor

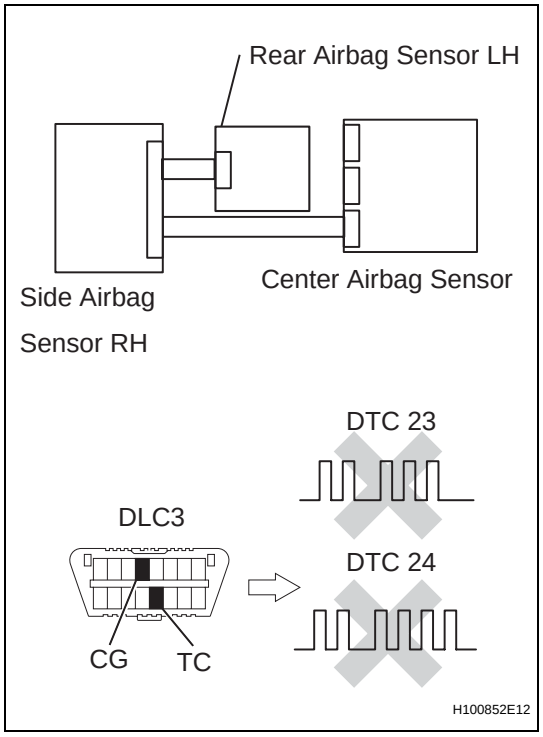
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK REAR AIRBAG SENSOR RH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the side airbag sensor RH with the side airbag sensor LH and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1630/23 and B1635/24 are not output.	A
DTC B1630/23 is output.	B
DTC B1635/24 is output.	C

DTCs other than DTC B1630/23 and B1635/24 may be output at this time, but they are not related to this check.

B → **REPLACE REAR AIRBAG SENSOR RH**

C → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

A

USE SIMULATION METHOD TO CHECK

RS

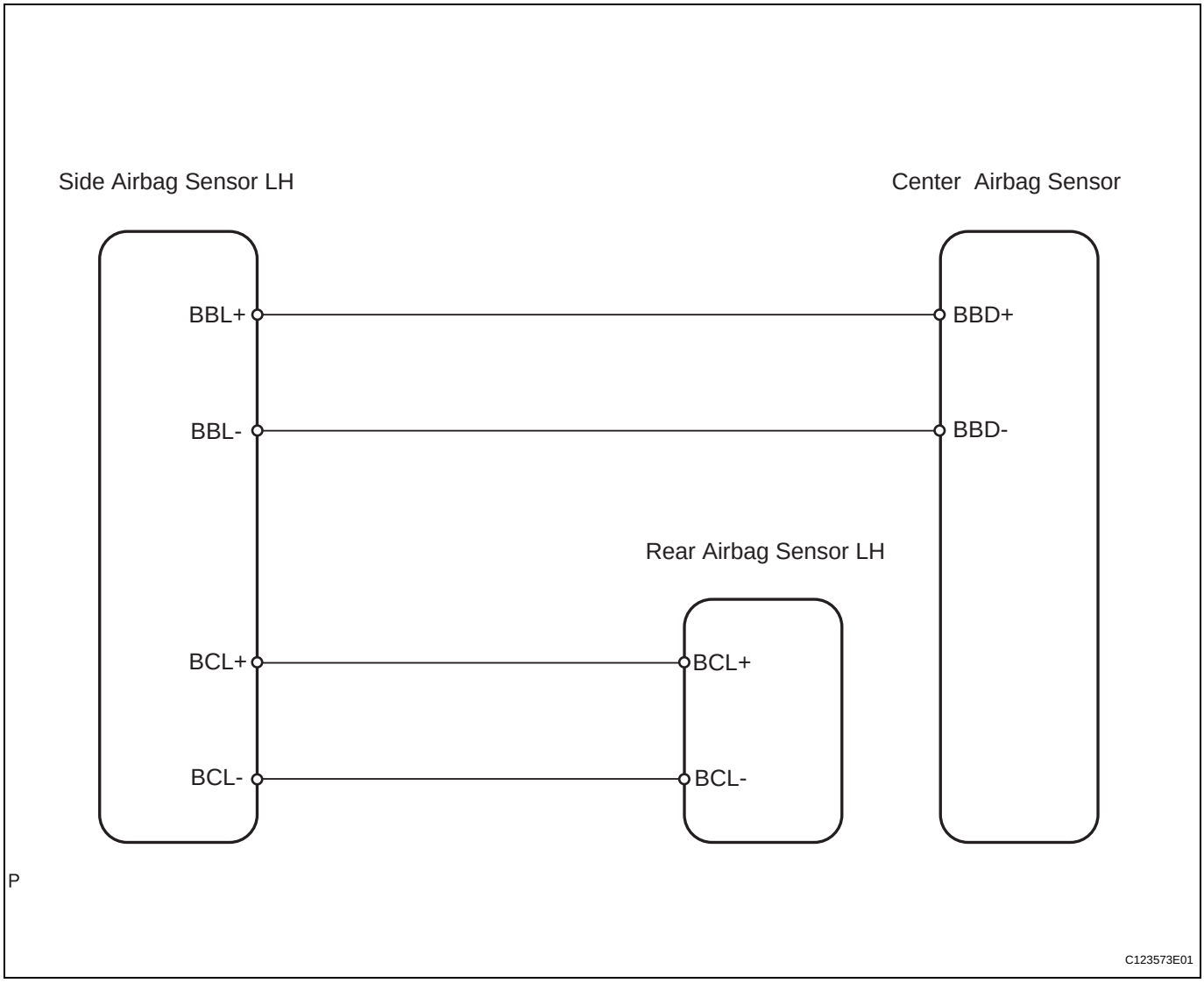
DTC	B1643/81	Driver Side Satellite Sensor Bus Initialization Incomplete

DESCRIPTION

The side airbag sensor LH consists of part including the diagnostic circuit and the lateral deceleration sensor.
When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1643/81 is set when a malfunction is detected in the side airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1643/81	When one of following conditions is met: • Center airbag sensor detects open circuit signal in side airbag sensor LH circuit for 2 seconds. • Side airbag sensor LH malfunction • Center airbag sensor malfunction	• Floor wire • Side airbag sensor LH • Center airbag sensor

WIRING DIAGRAM

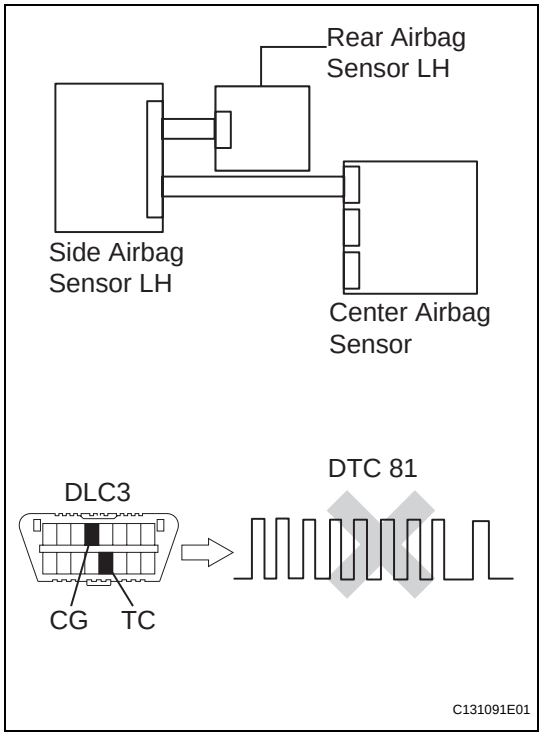


RS

P

INSPECTION PROCEDURE

1	CHECK FOR DTC



(a) Turn the ignition switch ON, and wait for at least 60 seconds.
(b) Clear the DTCs (see page RS-49).
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Check the DTCs (see page RS-49).

OK:

DTC B1622/81 is not output.
DTC B1632/81 is not output.

HINT:
DTCs other than DTC B1622/81 and B1632/81 may be output at this time, but they are not related to this check.

NG → **GO TO DTC OUTPUT**

OK

2	CHECK CONNECTION OF CONNECTOR

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

OK:

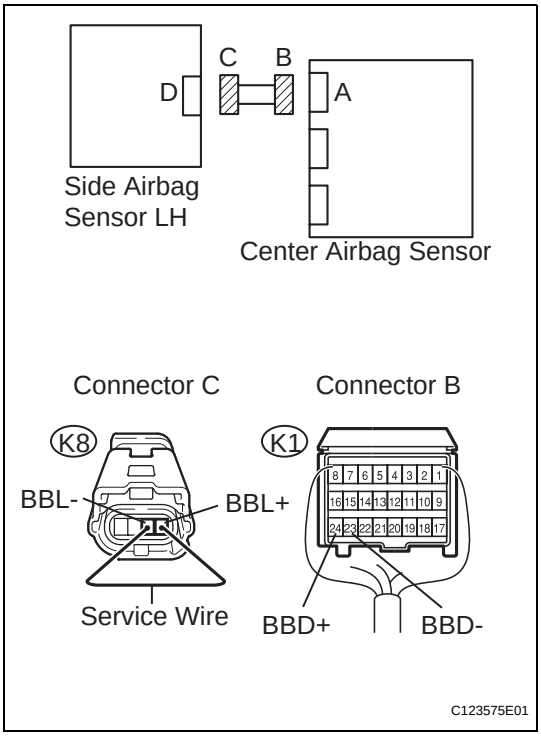
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3 CHECK FLOOR WIRE (OPEN)



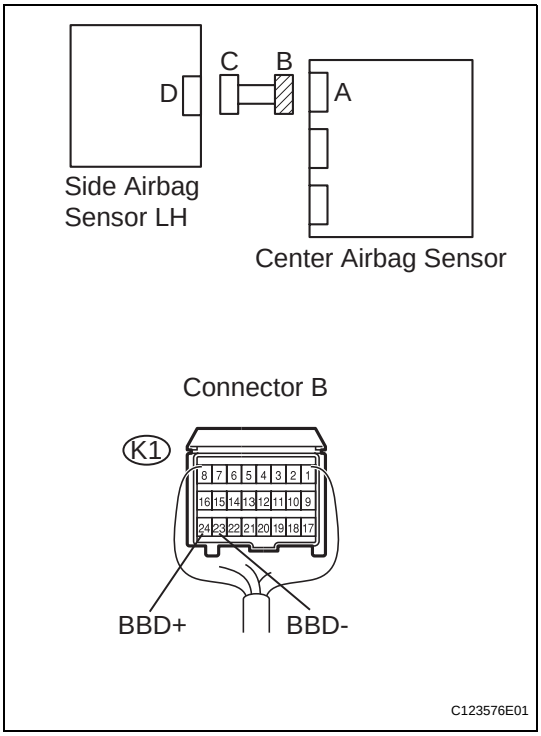
(a) Disconnect the connectors from the center airbag sensor and the side airbag sensor LH.
(b) Using a service wire, connect K8-4 (BBL+) and K8-3 (BBL-) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K1-24 (BBD+) - K1-23 (BBD-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE (SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

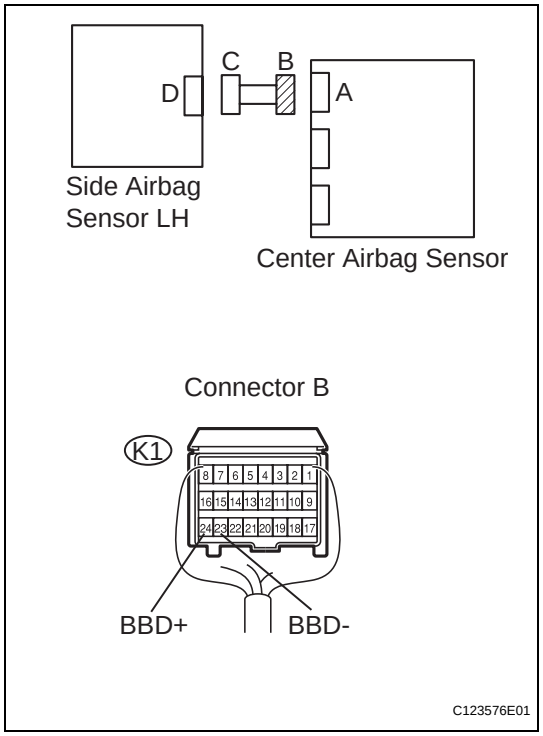
Tester Connection	Specified Condition
K1-24 (BBD+) - K1-23 (BBD-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

5 CHECK FLOOR WIRE (TO B+)



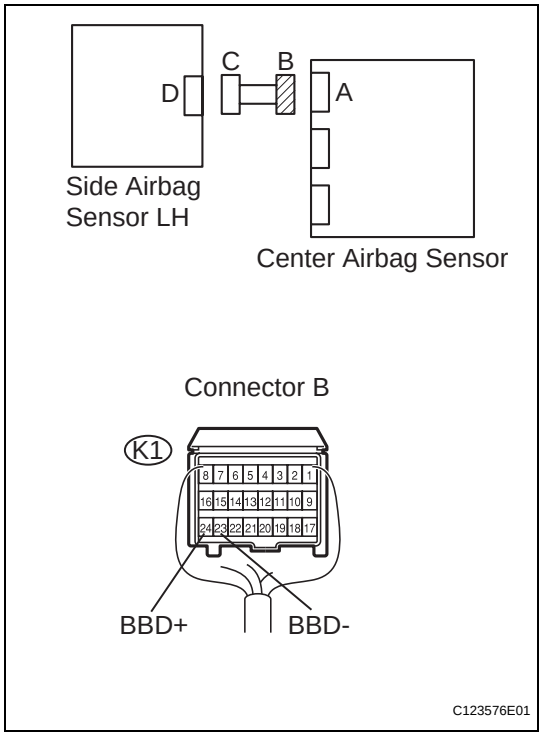
(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
K1-24 (BBD+) - Body ground	Below 1 V
K1-23 (BBD-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

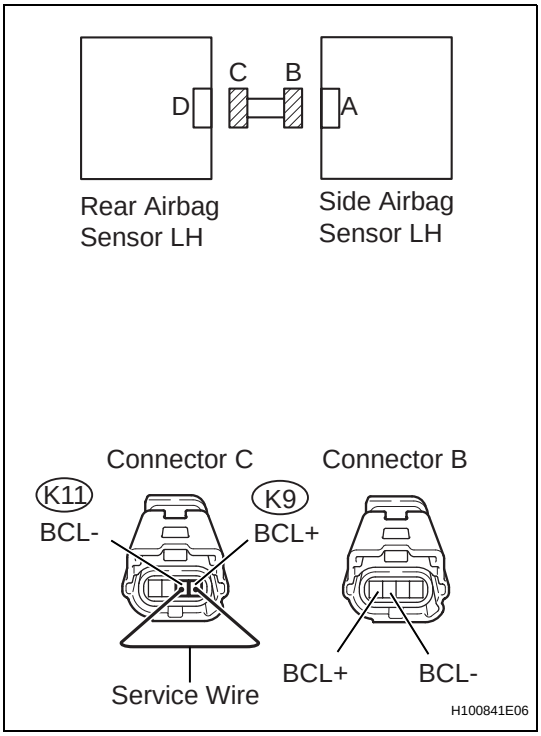
Tester Connection	Specified Condition
K1-24 (BBD+) - Body ground	1 MΩ or higher
K1-23 (BBD-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

7 CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the side airbag sensor LH and the rear airbag sensor LH.
(b) Using a service wire, connect K11-1 (BCL-) and K11-2 (BCL+) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

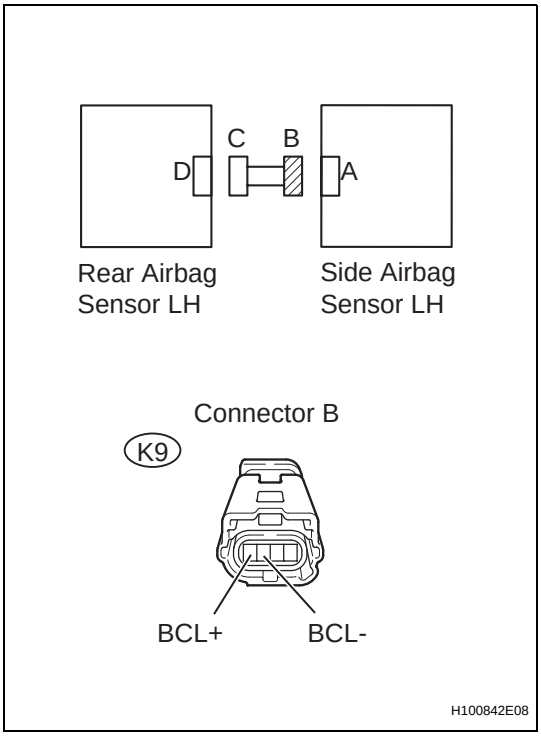
Tester Connection	Specified Condition
K9-1 (BCL+) - K9-2 (BCL-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

8 CHECK FLOOR WIRE (SHORT)

RS



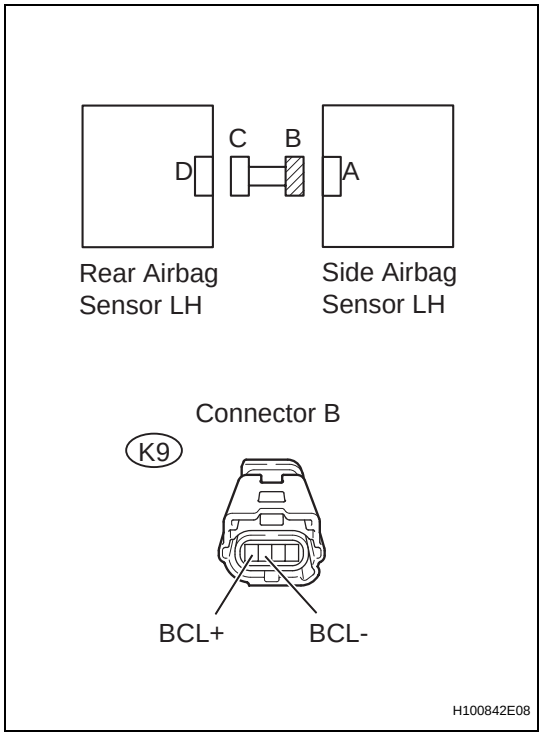
(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K9-1 (BCL+) - K9-2 (BCL-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9 CHECK FLOOR WIRE (TO B+)



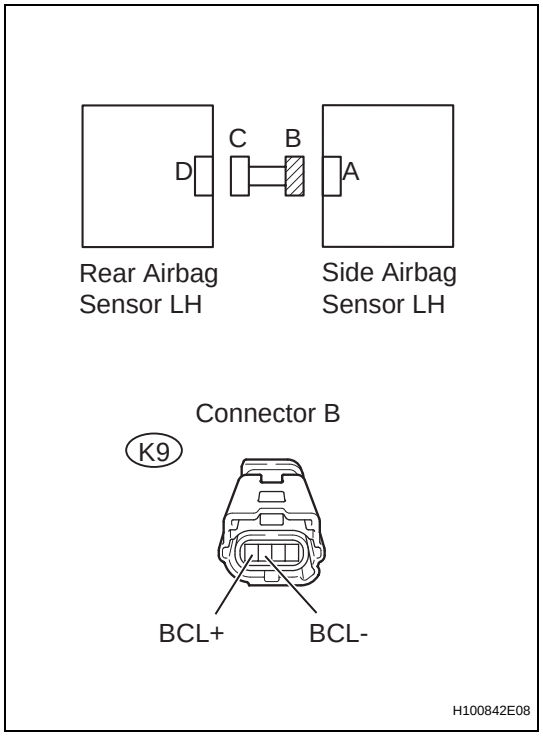
(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
K9-1 (BCL+) - Body ground	Below 1 V
K9-2 (BCL-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

10 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

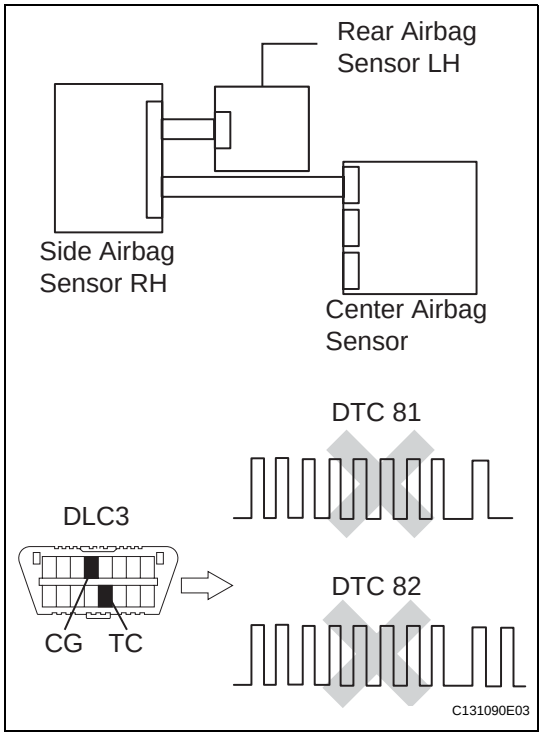
Tester Connection	Specified Condition
K9-1 (BCL+) - Body ground	1 MΩ or higher
K9-2 (BCL-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

11	CHECK SIDE AIRBAG SENSOR LH



(a) Connect the connectors to the center airbag sensor .
(b) Interchange the side airbag sensor LH with the side airbag sensor RH and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1643/81 and B1648/82 are not output	A
DTC B1643/81 is output	B
DTC B1648/82 is output	C

HINT:
DTCs other than DTC B1643/81 and B1648/82 may be output at this time, but they are not related to this check.

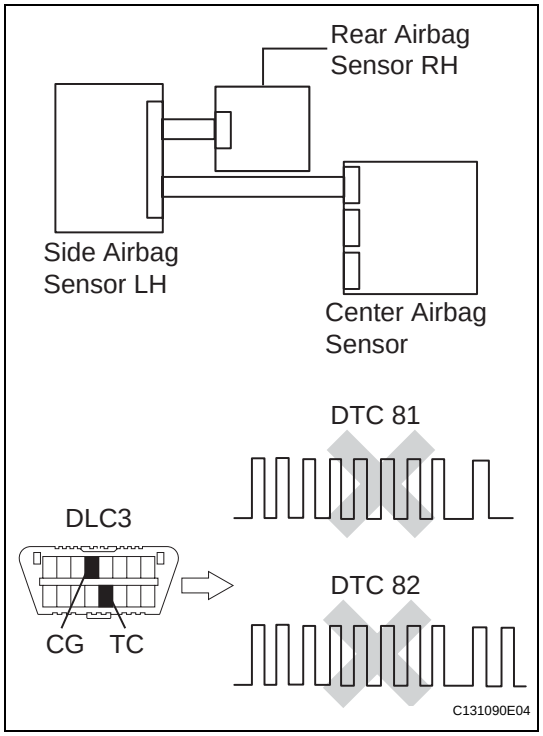
B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE SIDE AIRBAG SENSOR LH**

A

RS

12 CHECK REAR AIRBAG SENSOR LH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) terminal battery, and wait for at least 90 seconds.
(c) Interchange the rear airbag sensor LH with the rear airbag sensor RH and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1643/81 and B1648/82 are not output	A
DTC B1643/81 is output	B
DTC B1648/82 is output	C

HINT:
DTCs other than DTC B1643/81 and B1648/82 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE REAR AIRBAG SENSOR LH**

A

USE SIMULATION METHOD TO CHECK

RS

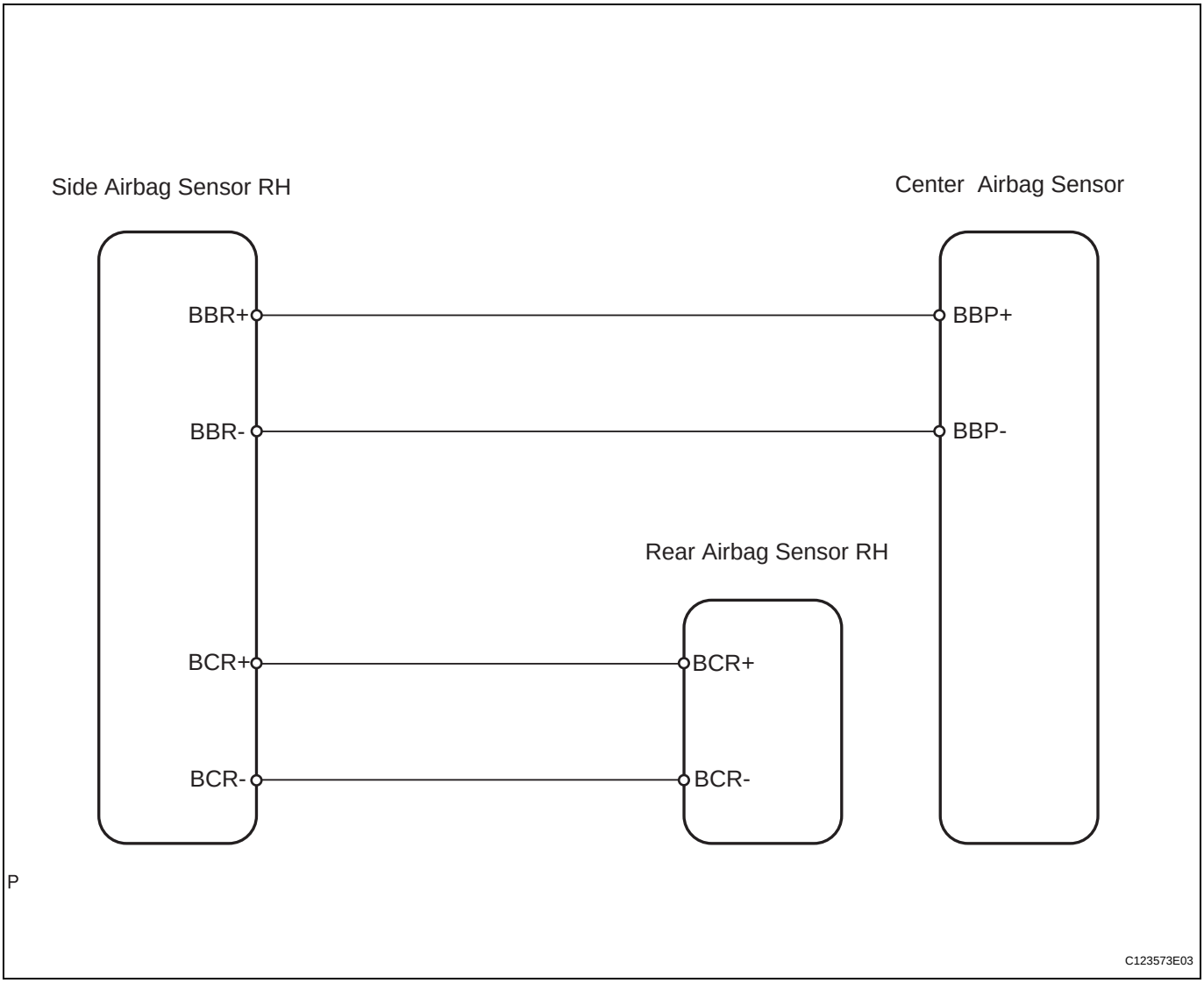
DTC	B1648/82	Front Passenger Side Satellite Sensor Bus Initialization Incomplete

DESCRIPTION

When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1648/82 is recorded when a malfunction is detected in the rear airbag sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1648/82	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in rear airbag sensor RH circuit for 2 seconds. • Rear airbag sensor RH malfunction • Center airbag sensor malfunction	• Floor wire • Rear airbag sensor RH • Center airbag sensor

WIRING DIAGRAM

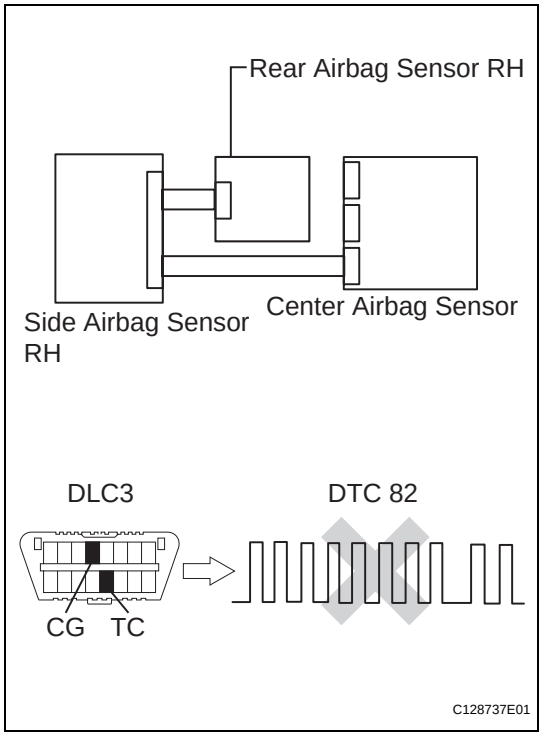


RS

P

INSPECTION PROCEDURE

1 CHECK FOR DTC



(a) Turn the ignition switch ON, and wait for at least 60 seconds.
(b) Clear the DTCs (see page RS-49).
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Check the DTCs (see page RS-49).

OK:

DTC B1627/82 is not output.
DTC B1637/82 is not output.

HINT:
DTCs other than DTC B1627/82 and B1637/82 may be output at this time, but they are not related to this check.

NG → **GO TO DTC OUTPUT**

OK

2 CHECK CONNECTION OF CONNECTOR

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

OK:

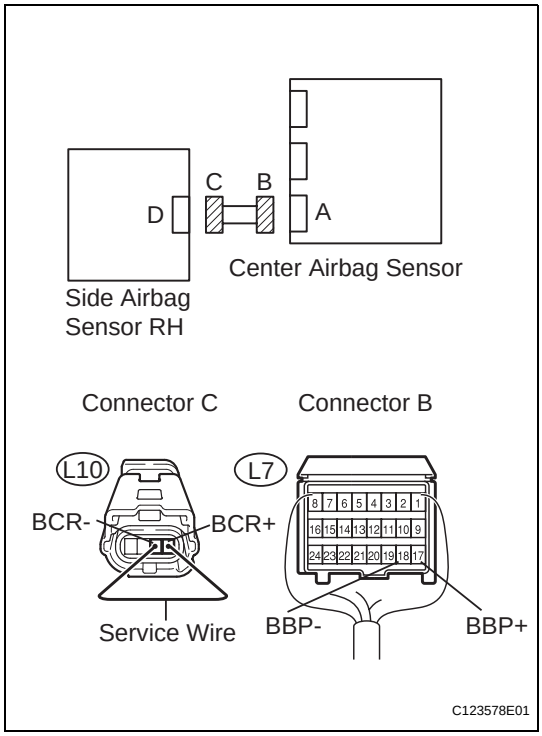
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3 CHECK FLOOR WIRE (OPEN)



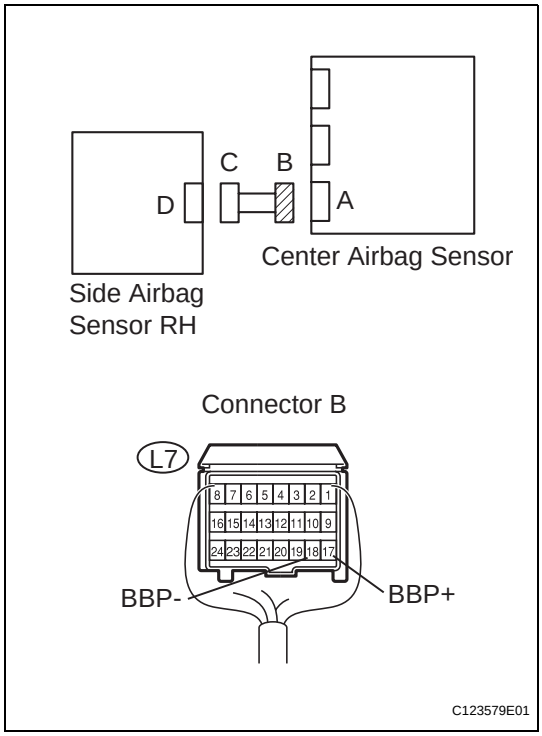
(a) Disconnect the connectors from the center airbag sensor and the side airbag sensor RH.
(b) Using a service wire, connect L10-4 (BBR+) and L10-3 (BBR-) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
L7-17 (BBP+) - L7-18 (BBP-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE (SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

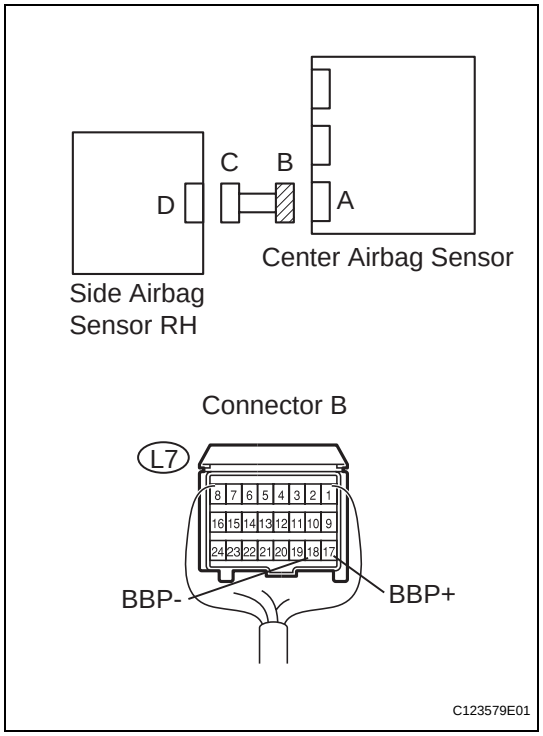
Tester Connection	Specified Condition
L7-17 (BBP+) - L7-18(BBP-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

5 CHECK FLOOR WIRE (TO B+)



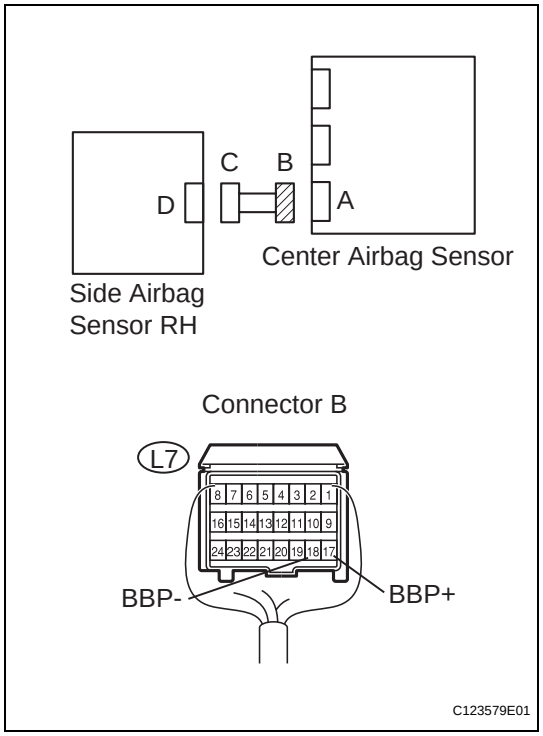
(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
L7-17 (BBP+) - Body ground	Below 1 V
L7-18 (BBP-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

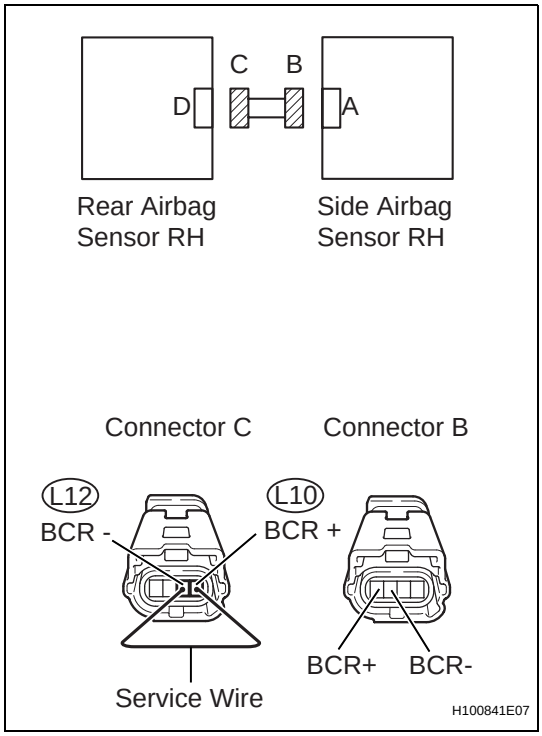
Tester Connection	Specified Condition
L7-17 (BBP+) - Body ground	1 MΩ or higher
L7-18 (BBP-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

7 CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the side airbag sensor RH and the rear airbag sensor RH.
(b) Using a service wire, connect L12-1 (BCR-) and L12-2 (BCR+) of connector C.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

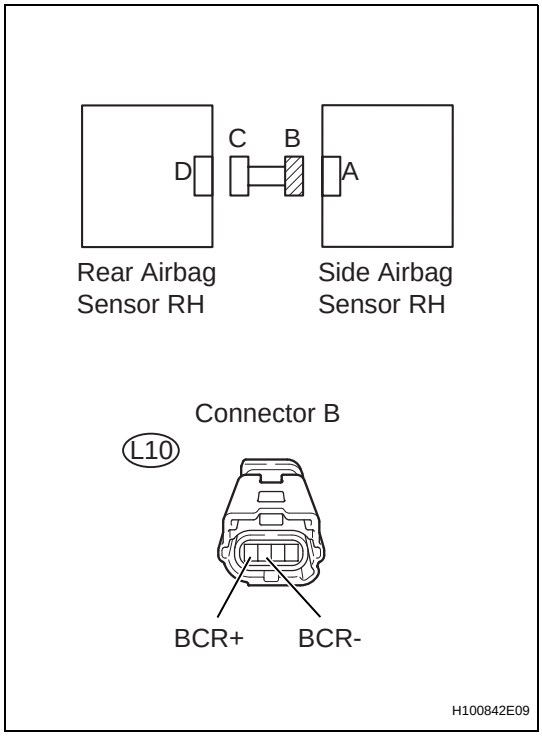
Tester Connection	Specified Condition
L10-1 (BCR+) - L10-2 (BCR-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

8 CHECK FLOOR WIRE (SHORT)

RS



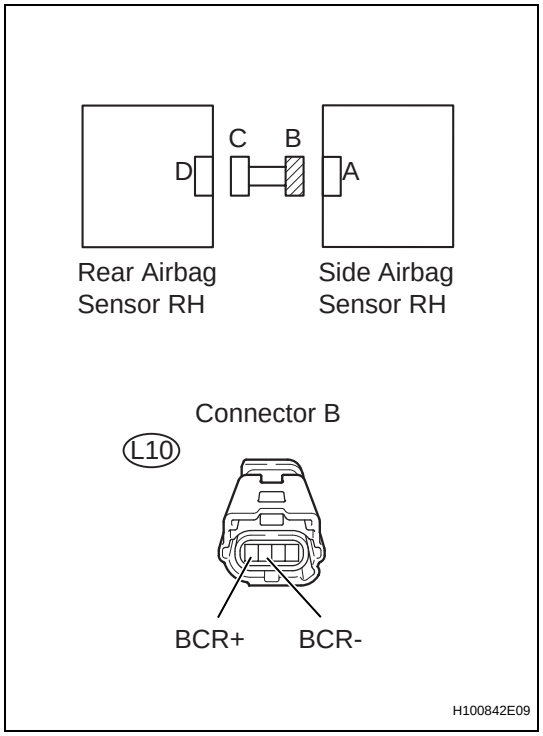
(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
L10-1 (BCR+) - L10-2 (BCR-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

9 CHECK FLOOR WIRE (TO B+)



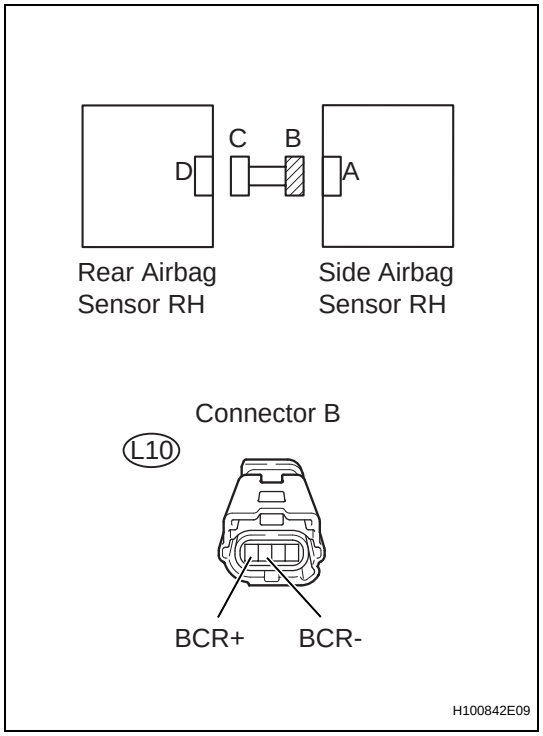
(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
L10-1 (BCR+) - Body ground	Below 1 V
L10-2 (BCR-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

10 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

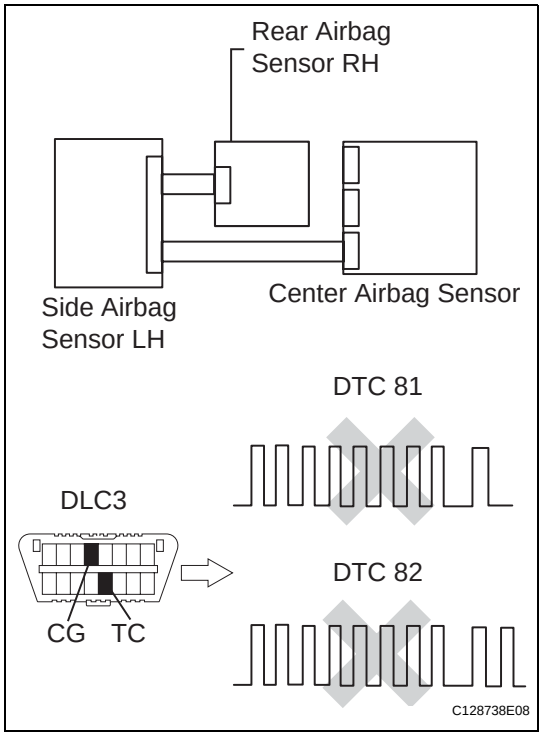
Tester Connection	Specified Condition
L10-1 (BCR+) - Body ground	1 MΩ or higher
L10-2 (BCR-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

11 CHECK SIDE AIRBAG SENSOR RH



(a) Connect the connectors to the center airbag sensor.
(b) Interchange the side airbag sensor RH with the side airbag sensor LH and connect the connectors to them.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check for DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1643/81 and B1648/82 are not output	A
DTC B1648/82 is output	B
DTC B1643/81 is output	C

HINT:
DTCs other than DTC B1643/81 or B1648/82 may be output at this time, but they are not related to this check.

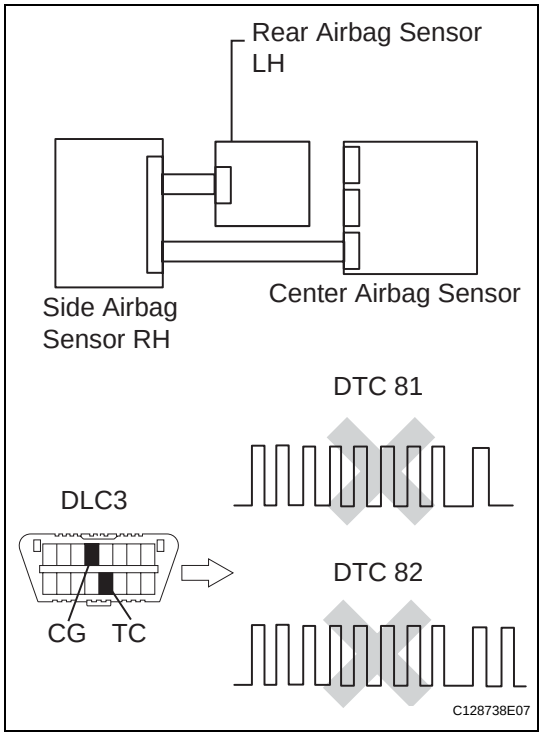
B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE SIDE AIRBAG SENSOR RH**

A

RS

12 CHECK REAR AIRBAG SENSOR RH



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Interchange the rear airbag sensor LH with the rear airbag sensor RH and connect the connectors to them.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Clear the DTCs (see page RS-49).
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON, and wait for at least 60 seconds.
(i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1643/81 and B1648/82 are not output	A
DTC B1648/82 is output	B
DTC B1643/81 is output	C

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE REAR AIRBAG SENSOR RH**

A

USE SIMULATION METHOD TO CHECK

RS

DTC	B1650/32	Occupant Classification System Malfunction

DESCRIPTION

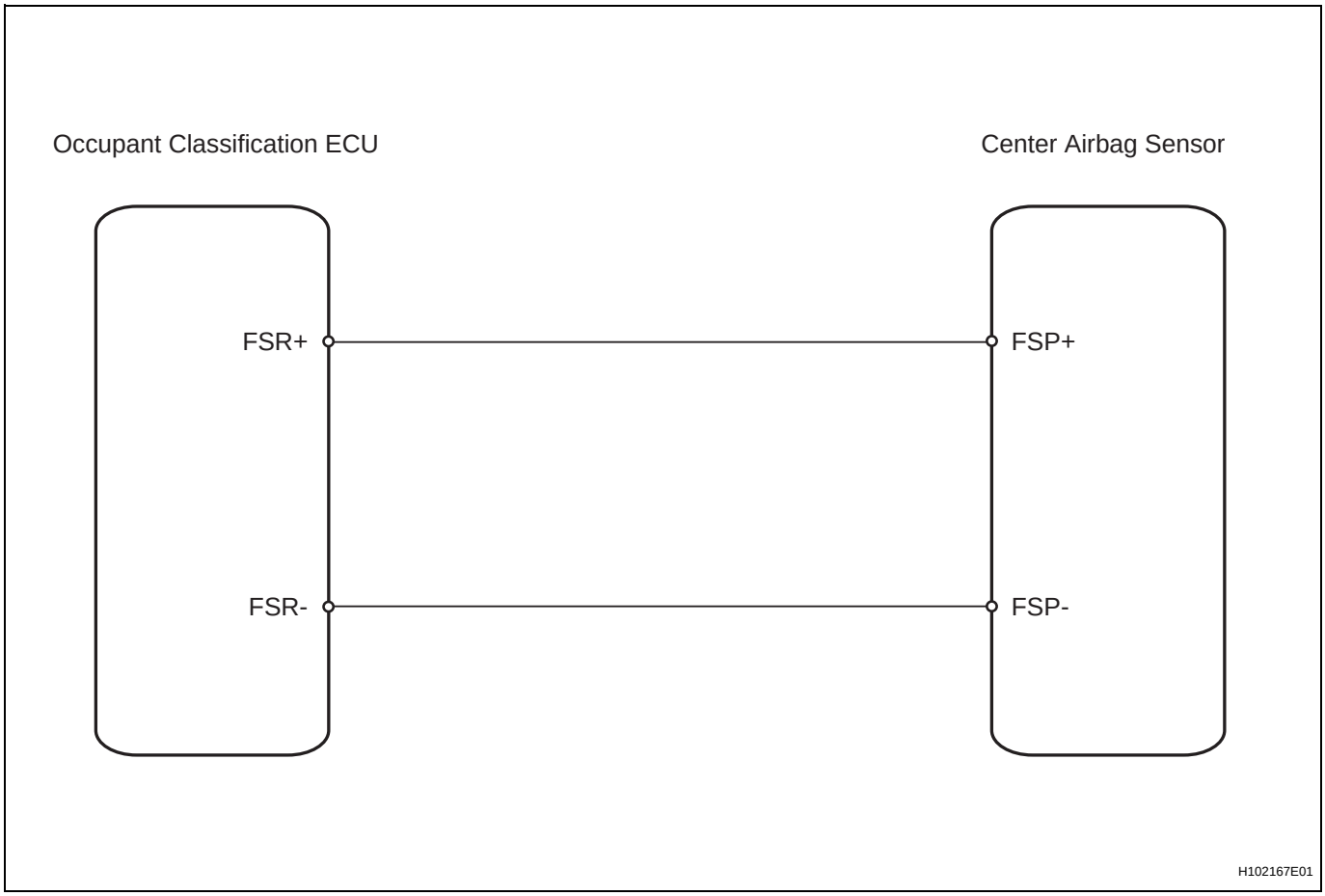
The occupant classification system circuit consists of the center airbag sensor and the occupant classification system.

When the center airbag sensor receives signals from the occupant classification ECU, it determines whether or not the front passenger airbag, front seat side airbag RH and seat belt pretensioner RH should be operated.

DTC B1650/32 is set when a malfunction is detected in the occupant classification system circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1650/32	When one of following conditions is met: • Occupant classification system malfunction • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in occupant classification system circuit for 2 seconds • Center airbag sensor malfunction	• Floor wire • Occupant classification system • Center airbag sensor

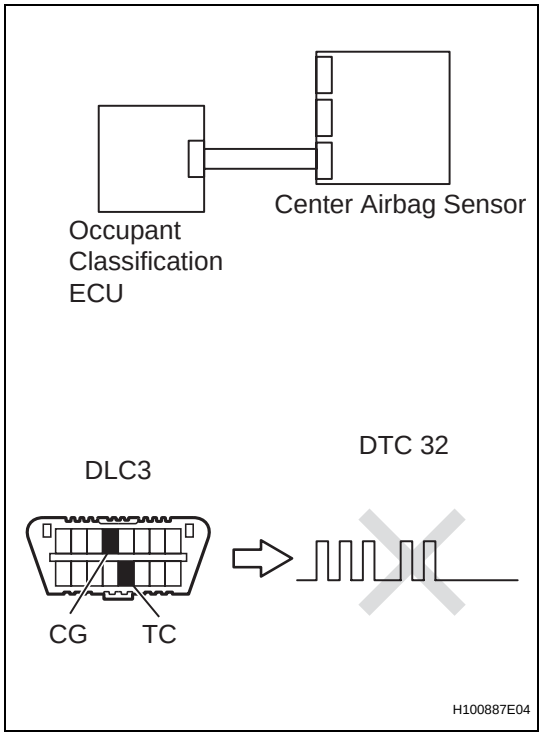
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 CHECK FOR DTC (CENTER AIRBAG SENSOR)



(a) Turn the ignition switch ON, and wait for at least 60 seconds.
(b) Clear the DTCs (see page RS-49).
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Check for DTCs (see page RS-49).

OK:

DTC B1650/32 is not output.

HINT:
DTCs other than B1650/32 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2 CHECK FOR DTC (OCCUPANT CLASSIFICATION ECU)

(a) Turn the ignition switch ON, and wait for at least 10 seconds.
(b) Using the intelligent tester (with CAN VIM), check for DTCs of the occupant classification ECU (see page RS-249).

OK:

DTC is not output.

NG → **GO TO DTC CHART**

OK

3 CHECK CONNECTION OF CONNECTOR

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

OK:

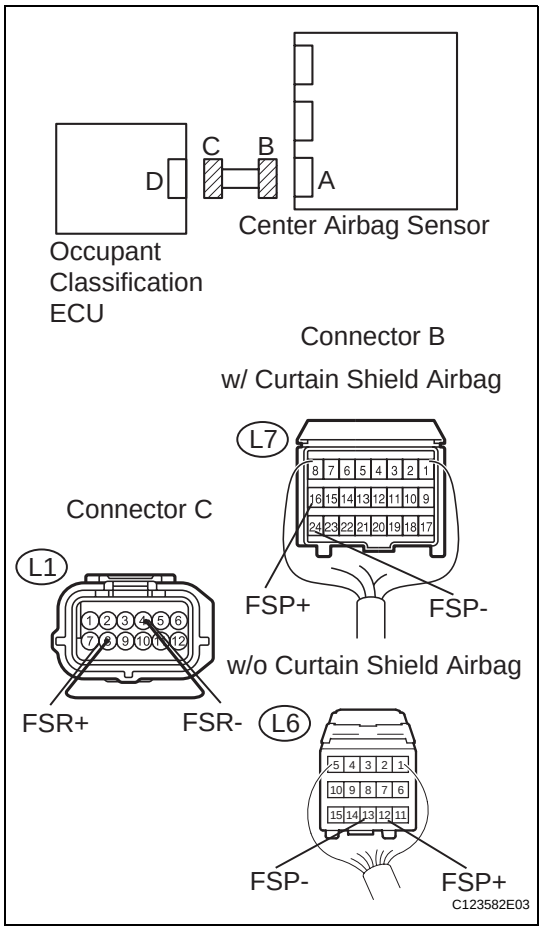
The connectors are properly connected.

RS

NG → CONNECT CONNECTOR

OK

4 CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the center airbag sensor and occupant classification ECU.

(b) Using a service wire, connect L1-8 (FSR+) and L1-4 (FSR-) of connector C.

NOTICE:

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

(c) Measure the resistance of the wire harness side connector.

Standard resistance:

w/ Curtain shield airbag

Tester Connection	Specified Condition
L7-16 (FSP+) - L7-24 (FSP-)	Below 1 Ω

w/o Curtain shield airbag

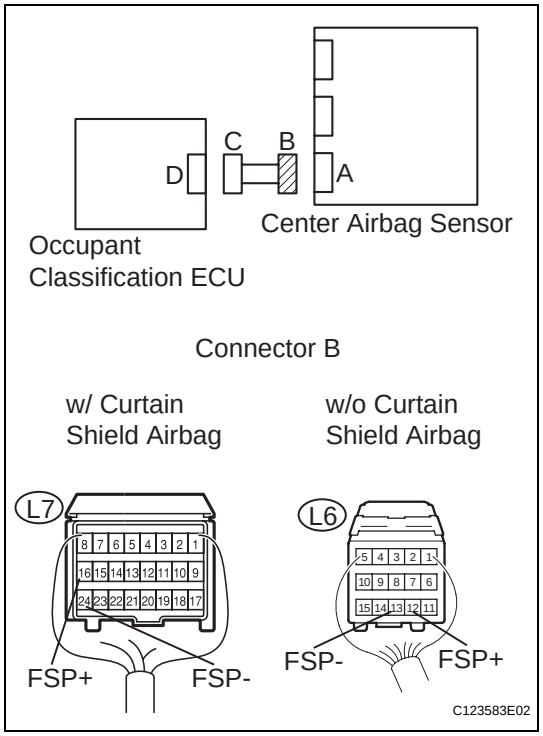
Tester Connection	Specified Condition
L6-12 (FSP+) - L6-13 (FSP-)	Below 1 Ω

NG → REPAIR OR REPLACE FLOOR WIRE

OK

RS

5 CHECK FLOOR WIRE (SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.
Standard resistance:
w/ Curtain shield airbag

Tester Connection	Specified Condition
L7-16 (FSP+) - L7-24 (FSP-)	1 MΩ or higher

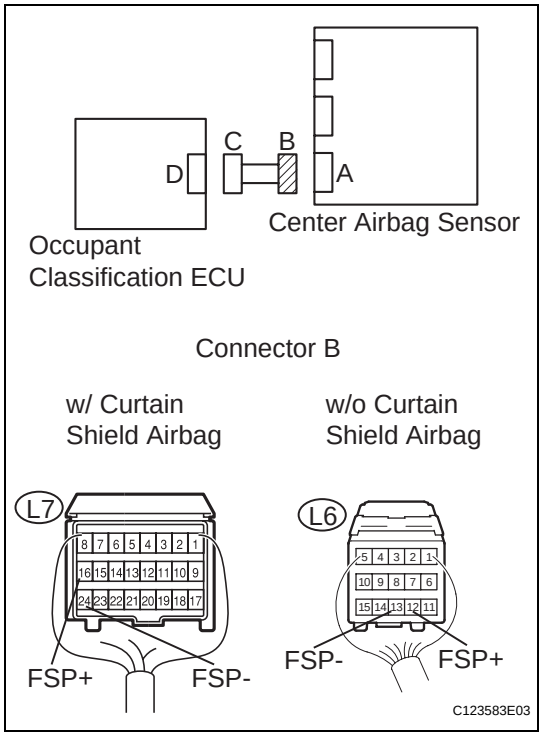
w/o Curtain shield airbag

Tester Connection	Specified Condition
L6-12 (FSP+) - L6-13 (FSP-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FLOOR WIRE (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.
Standard voltage:
w/ Curtain shield airbag

Tester Connection	Specified Condition
L7-16 (FSP+) - Body ground	Below 1 V
L7-24 (FSP-) - Body ground	Below 1 V

w/o Curtain shield airbag

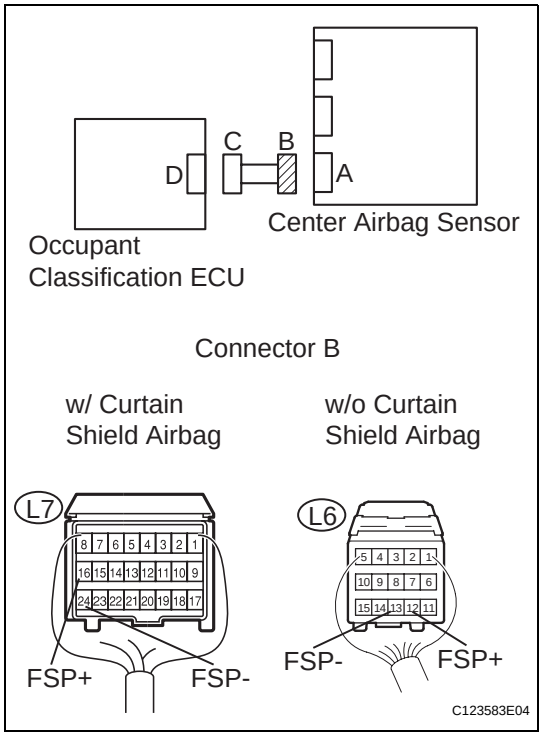
Tester Connection	Specified Condition
L6-12 (FSP+) - Body ground	Below 1 V
L6-13 (FSP-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

7 CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance:
w/ Curtain shield airbag

Tester Connection	Specified Condition
L7-16 (FSP+) - Body ground	1 MΩ or higher
L7-24 (FSP-) - Body ground	1 MΩ or higher

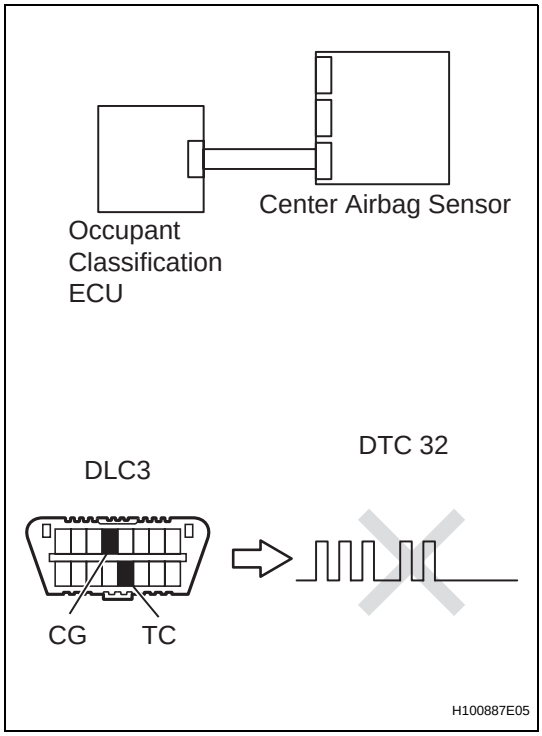
w/o Curtain shield airbag

Tester Connection	Specified Condition
L6-12 (FSP+) - Body ground	1 MΩ or higher
L6-13 (FSP-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

8 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Replace the center airbag sensor (see page RS-374).
HINT:
Perform the inspection using parts from a normal vehicle when possible.
(b) Connect the connectors to the center airbag sensor.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Clear the DTCs (see page RS-49).
(f) Turn the ignition switch OFF.
(g) Turn the ignition switch ON, and wait for at least 60 seconds.
(h) Check for DTCs (see page RS-49).
OK:
DTC B1650/32 is not output.
HINT:
DTCs other than B1650/32 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

RS

9	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).

NEXT

10	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed on the tester.

NEXT

11	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

RS

END

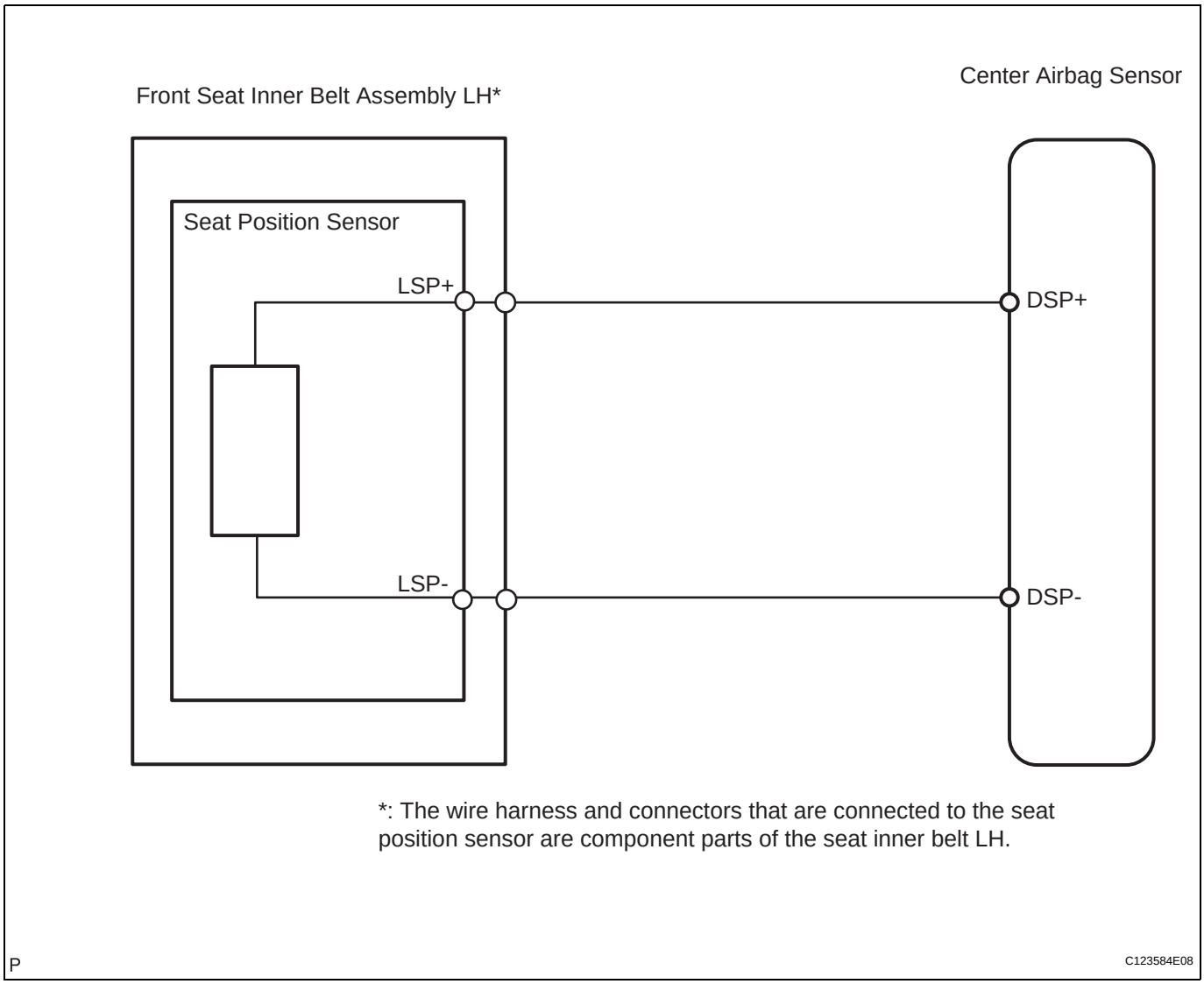
DTC	B1653/35	Seat Position Airbag Sensor Circuit Malfunction

DESCRIPTION

The seat position sensor circuit consists of the center airbag sensor and the seat position sensor.
DTC B1653/35 is recorded when a malfunction is detected in the seat position sensor circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1653/35	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in seat position sensor circuit for 2 seconds. • Seat position sensor malfunction • Center airbag sensor malfunction	• Floor wire • Front seat inner belt LH • Seat position sensor • Center airbag sensor

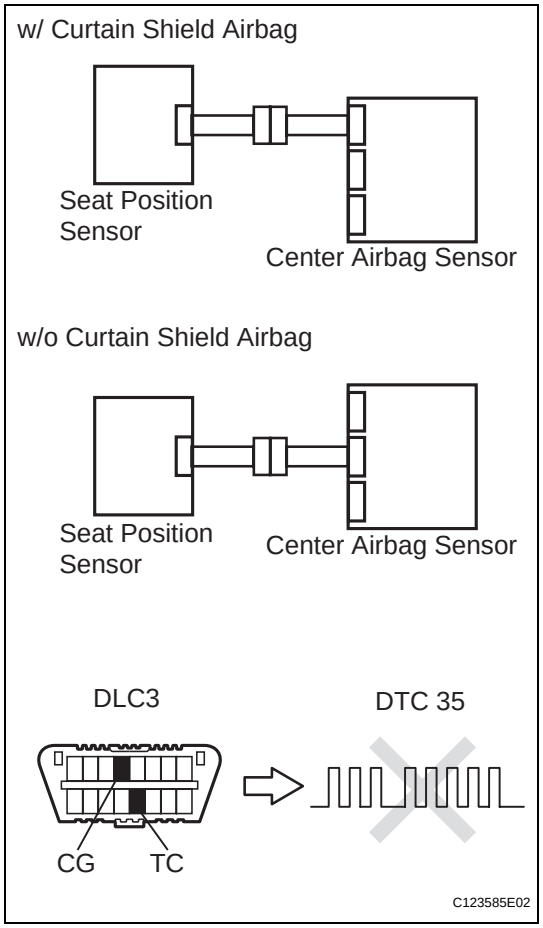
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK FOR DTC



(a) Turn the ignition switch ON, and wait for at least 60 seconds.
(b) Clear the DTCs (see page RS-49).
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Check the DTCs (see page RS-49).

OK:

DTC B1653/35 is not output.

HINT:

DTCs other than DTC B1653/35 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK CONNECTION OF CONNECTOR

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

OK:

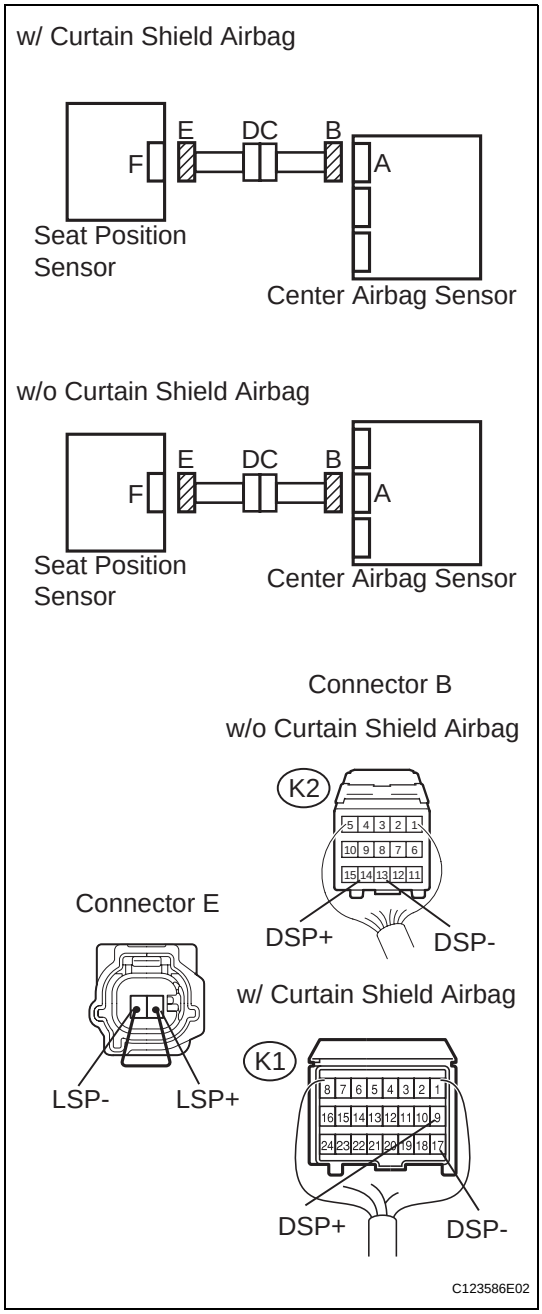
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3	CHECK SEAT POSITION SENSOR CIRCUIT (OPEN)



(a) Disconnect the connectors from the center airbag sensor and the seat position sensor.

(b) Using a service wire, connect 2 and 1 of connector E.

NOTICE:

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

(c) Measure the resistance of the wire harness side connector.

Standard resistance:

w/o Curtain shield airbag

Tester Connection	Specified Condition
K2-14 (DSP+) - K2-13 (DSP-)	Below 1 Ω

w/ Curtain shield airbag

Tester Connection	Specified Condition
K1-9 (DSP+) - K1-17 (LSP-)	Below 1 Ω

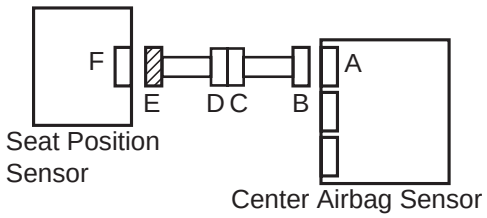
NG → **Go to step 10**

OK

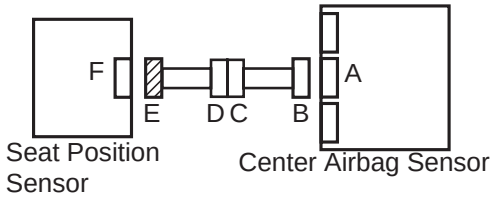
RS

4	CHECK SEAT POSITION SENSOR CIRCUIT (SHORT)

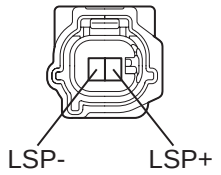
w/ Curtain Shield Airbag



w/o Curtain Shield Airbag



Connector E



C123587E03

(a) Disconnect the service wire from connector E.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

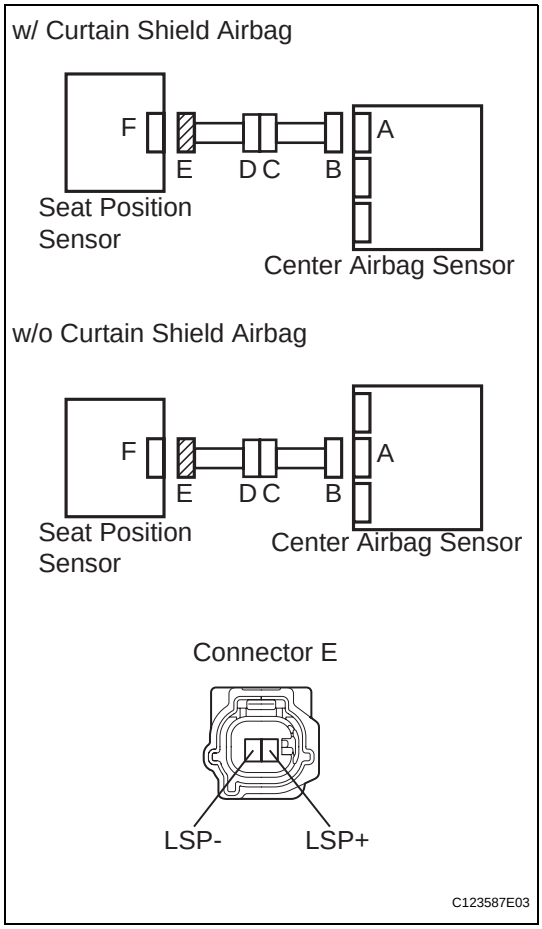
Tester Connection	Specified Condition
2 (LSP+) - 1 (LSP-)	1 MΩ or higher

NG → **Go to step 11**

OK

RS

5	CHECK SEAT POSITION SENSOR CIRCUIT (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
2 (LSP+) - Body ground	Below 1 V
1 (LSP-) - Body ground	Below 1 V

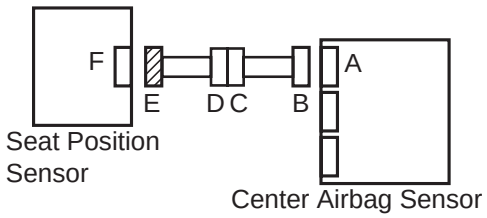
NG → **Go to step 12**

OK

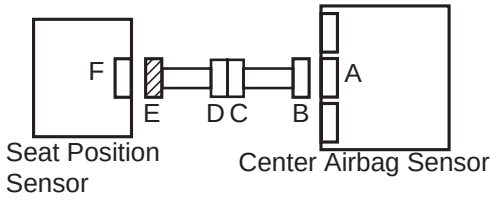
RS

6	CHECK SEAT POSITION SENSOR CIRCUIT (TO GROUND)

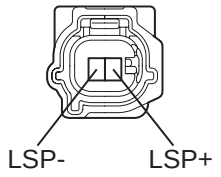
w/ Curtain Shield Airbag



w/o Curtain Shield Airbag



Connector E



C123587E03

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the voltage of the wire harness side connector.
Standard resistance

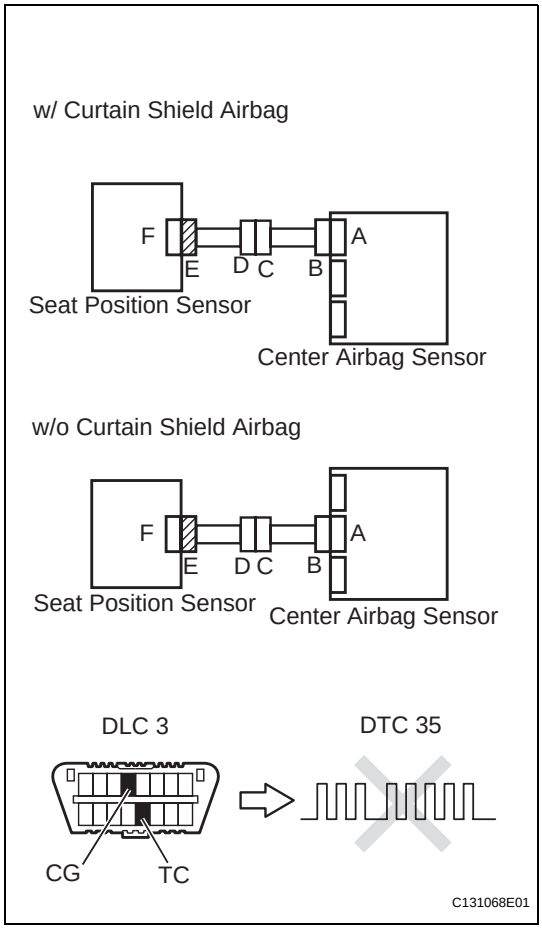
Tester Connection	Specified Condition
2 (LSP+) - Body ground	1 MΩ or higher
1 (LSP-) - Body ground	1 MΩ or higher

NG → **Go to step 13**

OK

RS

7	CHECK SEAT POSITION SENSOR



(a) Connect the connectors to the center airbag sensor and the seat position sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON, and wait for at least 60 seconds.
(d) Clear the DTCs (see page RS-49).
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Check the DTCs (see page RS-49).
OK:
DTC B1653/35 is not output.
HINT:
DTCs other than DTC B1653/35 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

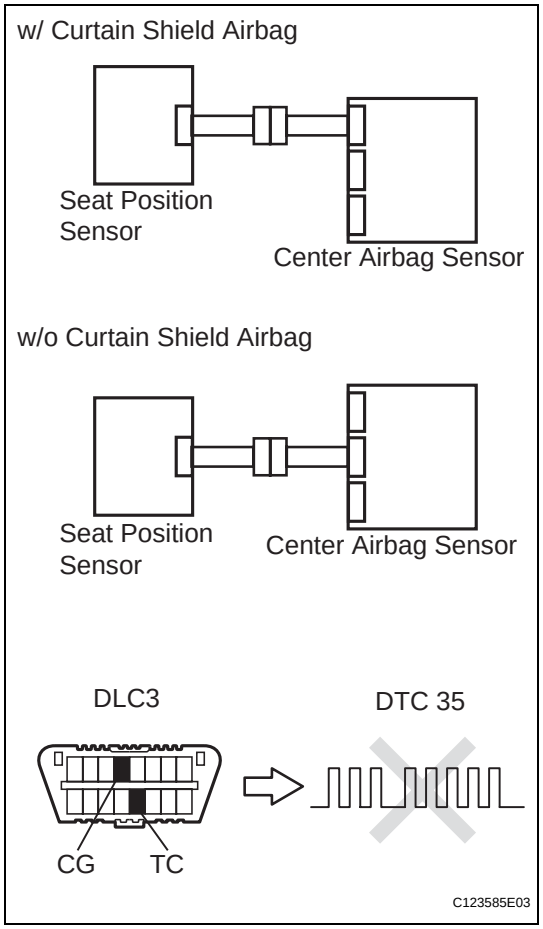
8	REPLACE SEAT POSITION SENSOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the seat position sensor (see page RS-389).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

RS

9	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON, and wait for at least 60 seconds.
(c) Clear the DTCs (see page RS-49).
(d) Turn the ignition switch OFF.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Check the DTCs (see page RS-49).

OK:

DTC B1653/35 is not output.

HINT:

DTCs other than DTC B1653/35 may be output at this time, but they are not related to this check.

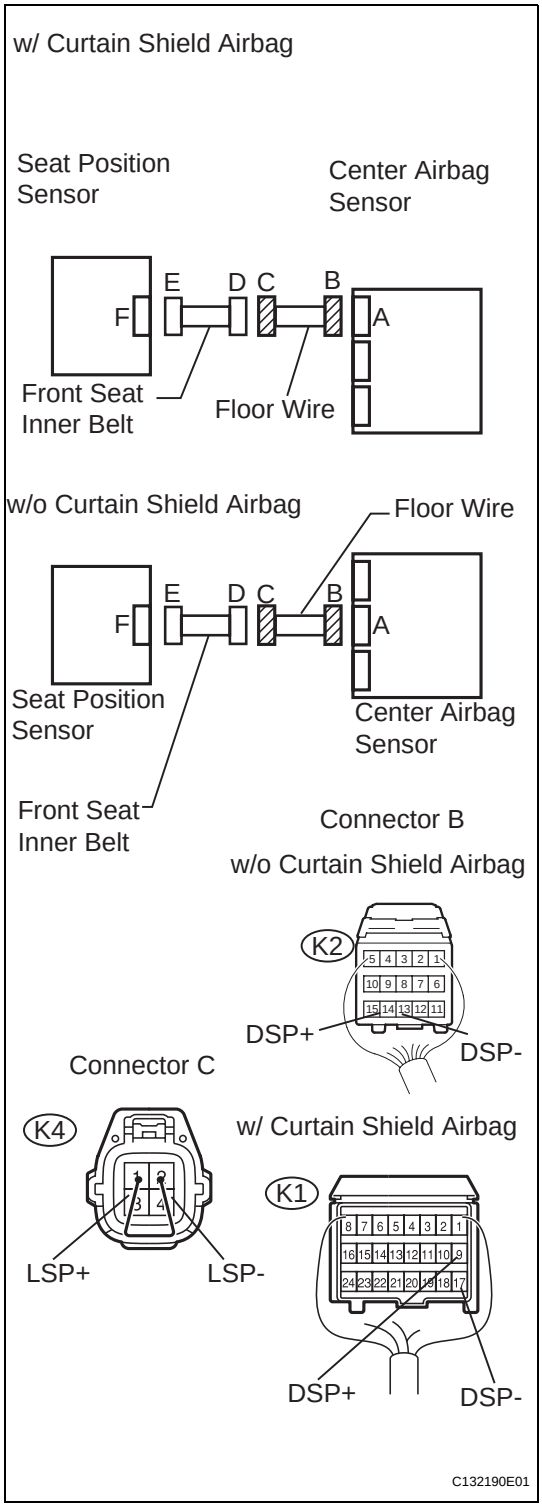
NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

END

RS

10	CHECK FLOOR WIRE (OPEN)



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

(b) Using a service wire, connect K4-1 (LSP+) and K4-2 (LSP-) of connector C.

NOTICE:

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

(c) Measure the resistance of the wire harness side connectors.

Standard resistance:

w/o Curtain shield airbag

Tester Connection	Specified Condition
K2-14 (DSP+) - K2-13 (DSP-)	Below 1 Ω

w/ Curtain shield airbag

Tester Connection	Specified Condition
K1-9 (DSP+) - K1-17 (DSP-)	Below 1 Ω

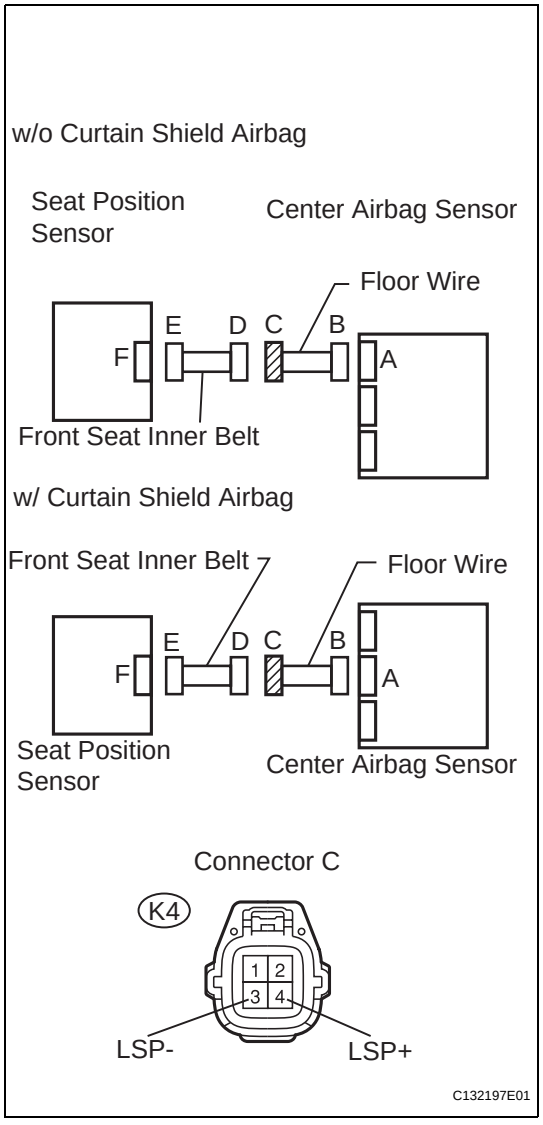
NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

RS

11	CHECK FLOOR WIRE (SHORT)



(a) Disconnect the front seat inner belt connector from the floor wire.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
K4-2 (LSP+) - K4-1 (LSP-)	1 MΩ or higher

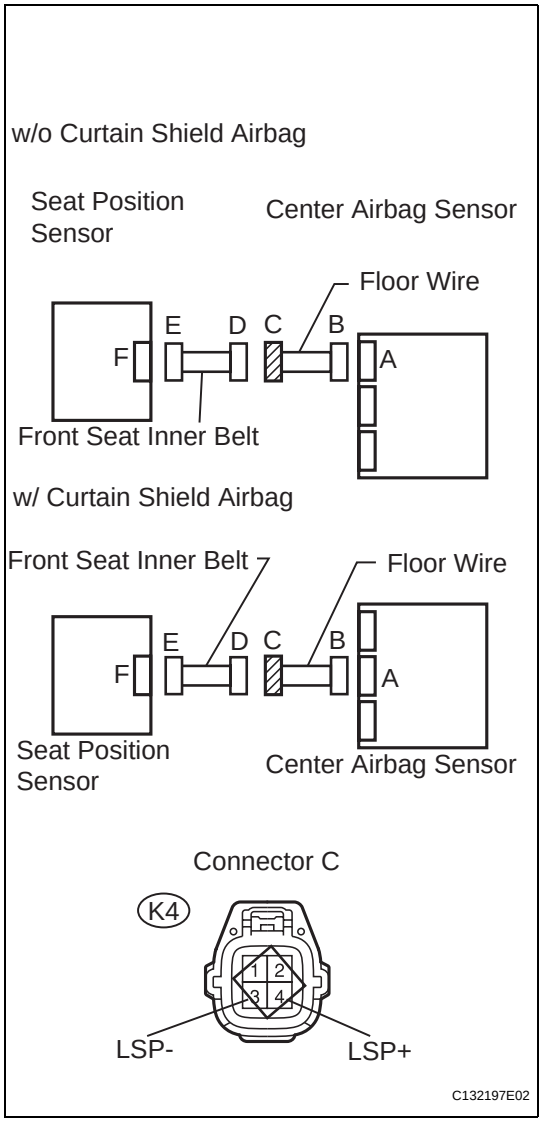
NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

RS

12	CHECK FLOOR WIRE (TO B+)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the front seat inner belt connector from the floor wire.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Measure the voltage of the wire harness side connectors.

Standard voltage

Tester Connection	Specified Condition
K4-2 (LSP+) - Body ground	Below 1 V
K4-1 (LSP-) - Body ground	Below 1 V

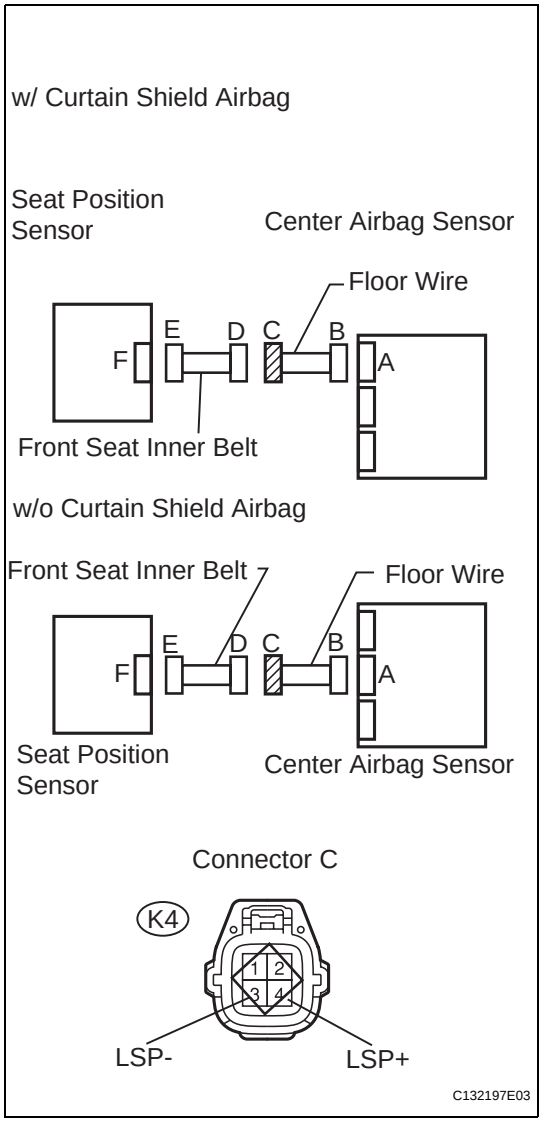
NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

RS

13 CHECK FLOOR WIRE (TO GROUND)



(a) Disconnect the front seat inner belt connector from the floor wire.
(b) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
K4-2 (LSP+) - Body ground	1 MΩ or higher
K4-1 (LSP-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

RS

DTC	B1655/37	Driver Side Seat Belt Buckle Switch Circuit Malfunction

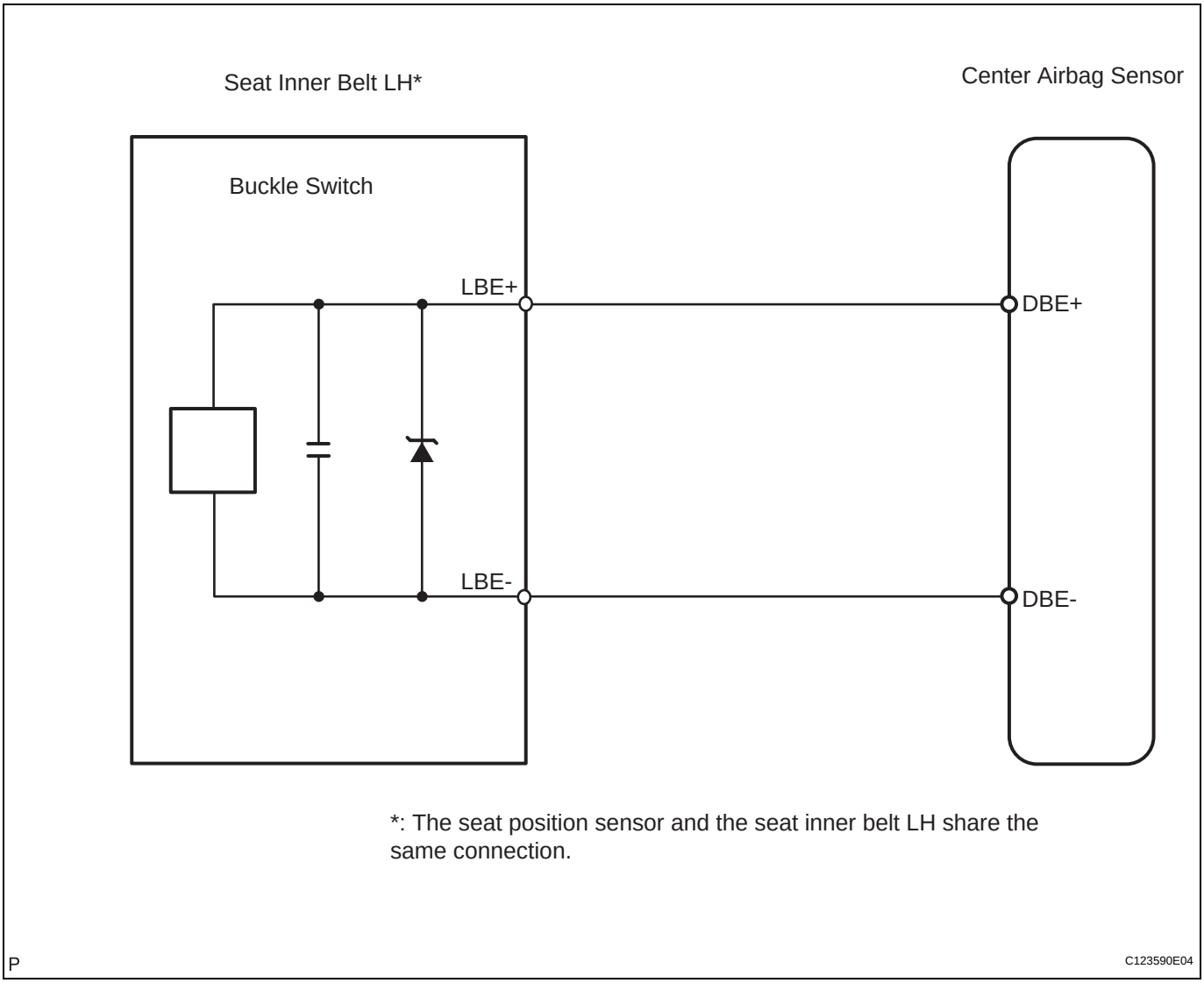
DESCRIPTION

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

DTC B1655/37 is recorded when a malfunction is detected in the driver side seat belt buckle switch circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1655/37	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in driver side seat belt buckle switch LH circuit for 2 seconds. • Front seat inner belt LH malfunction • Center airbag sensor malfunction	• Floor wire • Front seat inner belt LH • Center airbag sensor

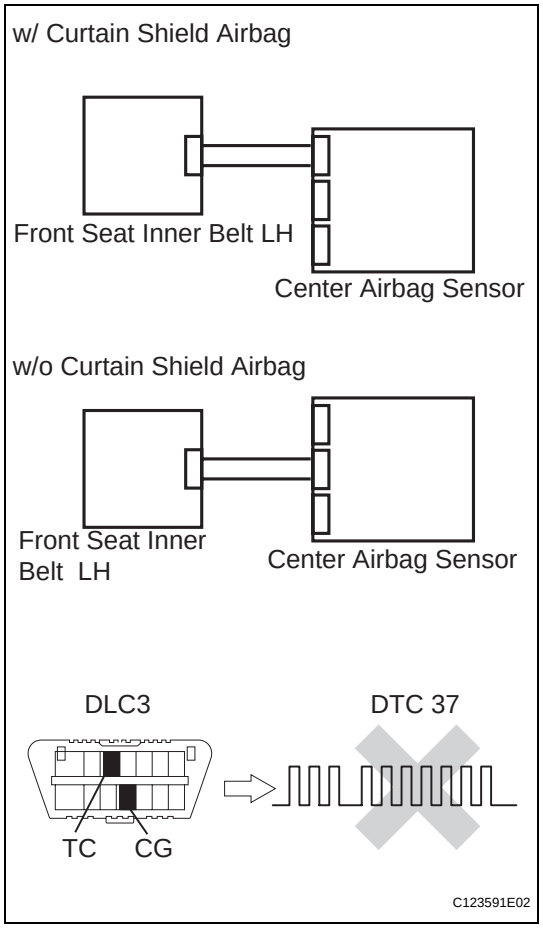
WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK FOR DTC



(a) Turn the ignition switch ON, and wait for at least 60 seconds.
(b) Clear the DTCs (see page RS-49).
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON, and wait for at least 60 seconds.
(e) Check the DTCs (see page RS-49).

OK:

DTC B1655/37 is not output.

HINT:

DTCs other than DTC B1655/37 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK CONNECTION OF CONNECTOR

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

OK:

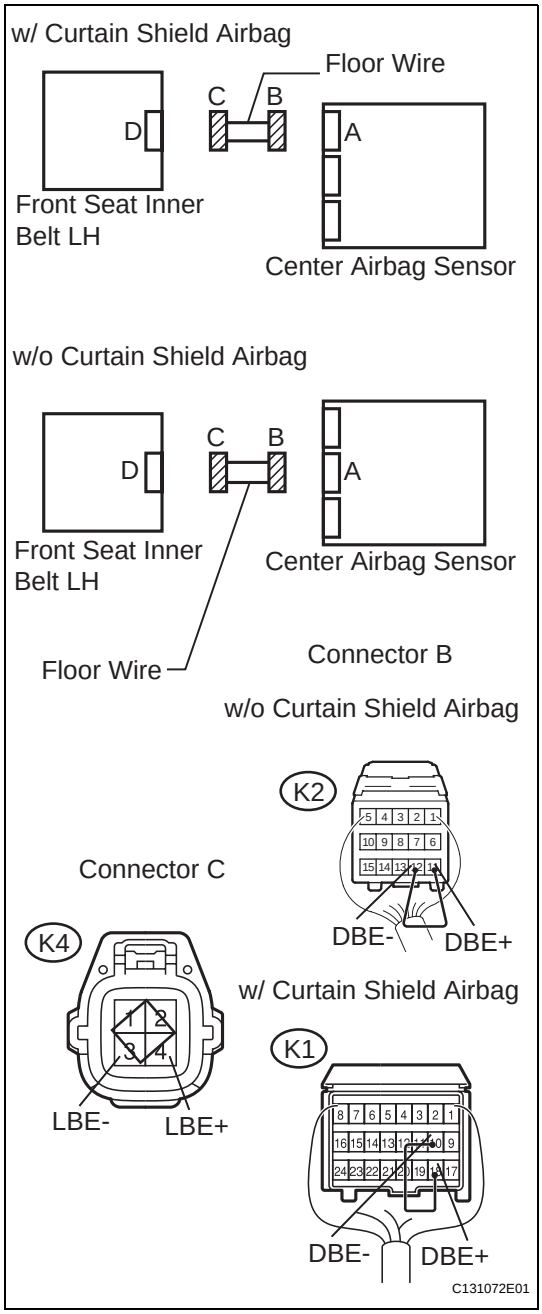
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3	CHECK FLOOR WIRE (OPEN)



(a) Disconnect the connectors from the center airbag sensor and the front seat inner belt LH.

(b) Using a service wire, connect K2-11 (LBE+) and K2-12 (LBE-) (w/o Curtain shield airbag), or K1-10 (DBE+) and K1-18 (DBE-) (w/Curtain shield airbag) of connector B.

NOTICE:

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

(c) Measure the resistance of the wire harness side connector.

Standard resistance

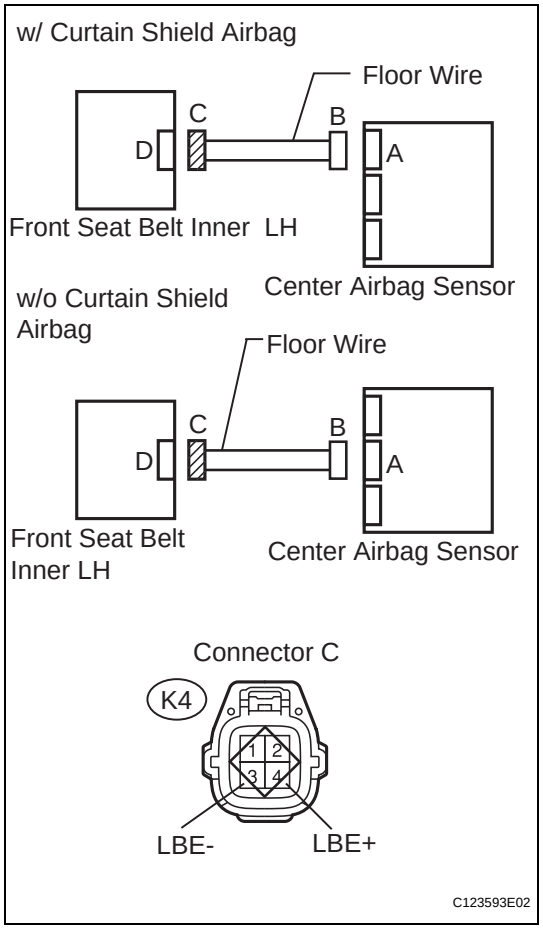
Tester Connection	Specified Condition
K4-4 (LBE+) - K4-3 (LBE-)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

4	CHECK FLOOR WIRE (SHORT)



(a) Disconnect the service wire from connector B.
(b) Measure the resistance of the wire harness side connectors.

Standard resistance

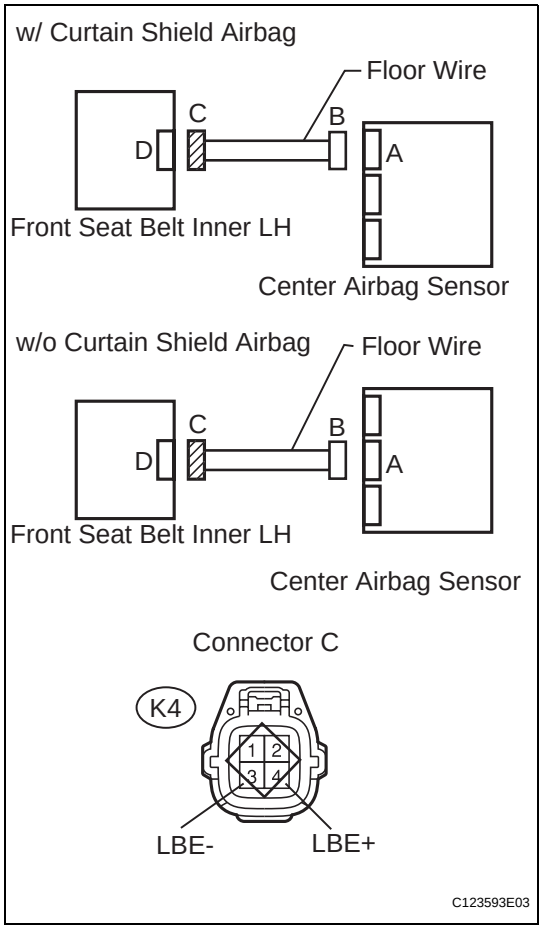
Tester Connection	Specified Condition
K4-4 (LBE+) - K4-3 (LBE-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

5	CHECK FLOOR WIRE (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.

Standard voltage

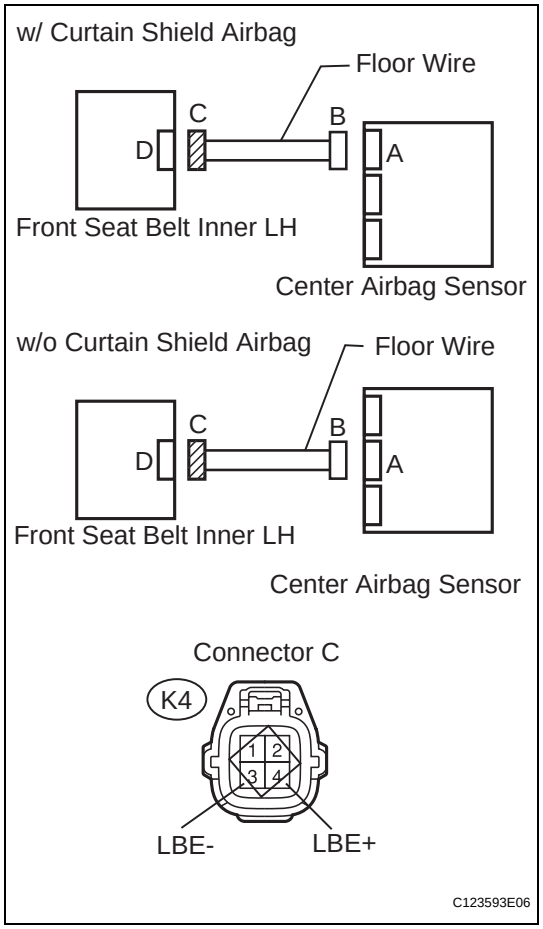
Tester Connection	Specified Condition
K4-4 (LBE+) - Body ground	Below 1 V
K4-3 (LBE-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

6	CHECK FLOOR WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connectors.
Standard resistance

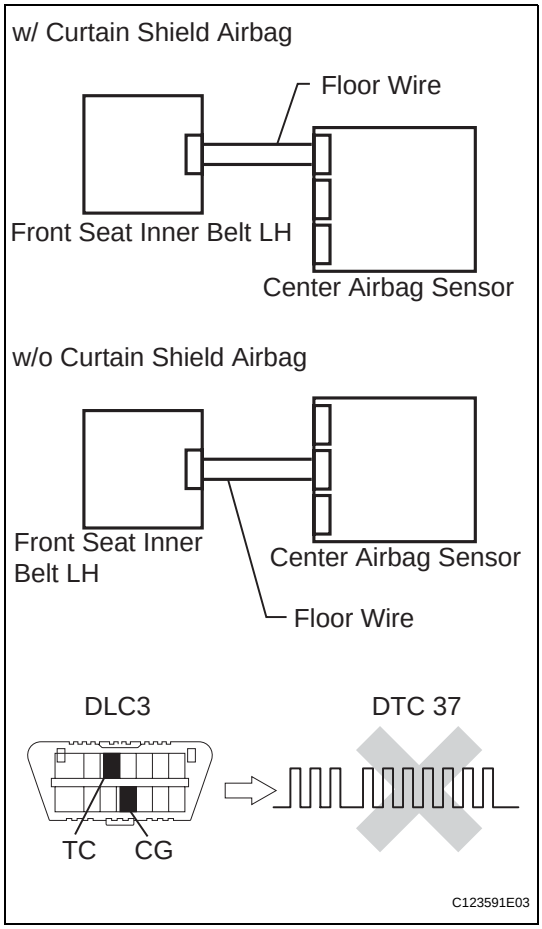
Tester Connection	Specified Condition
K4-4 (LBE+) - Body ground	1 MΩ or higher
K4-3 (LBE-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

7	CHECK FRONT SEAT INNER BELT ASSEMBLY LH



(a) Connect the connector to the center airbag sensor and the front seat inner belt LH.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch ON, and wait for at least 60 seconds.
(d) Clear the DTCs (see page RS-49).
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Check the DTCs (see page RS-49).
OK:
DTC B1655/37 is not output.
HINT:
DTCs other than DTC B1655/37 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

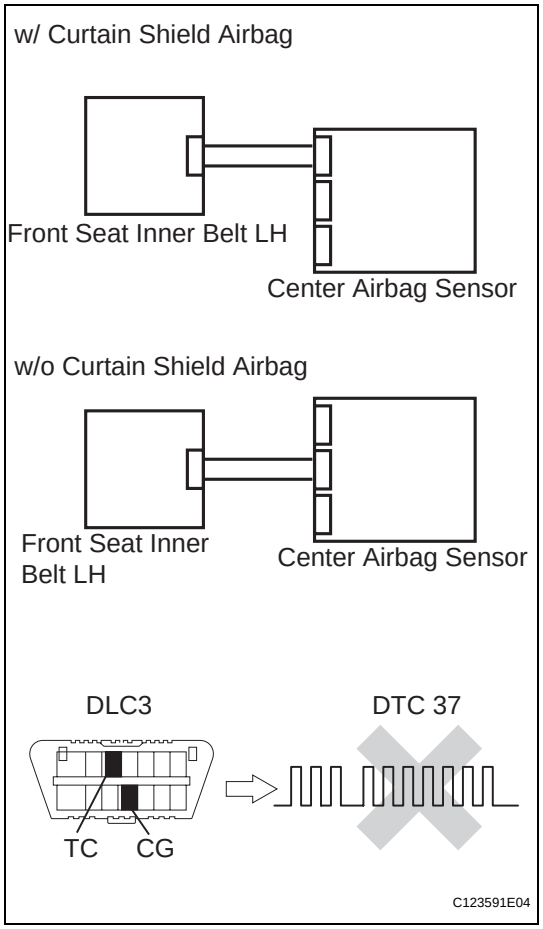
NG

8	REPLACE FRONT SEAT INNER BELT ASSEMBLY LH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat inner belt LH (see page SB-21).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON, and wait for at least 60 seconds.
(c) Clear the DTCs (see page RS-49).
(d) Turn the ignition switch OFF.
(e) Turn the ignition switch ON, and wait for at least 60 seconds.
(f) Check the DTCs (see page RS-49).

OK:

DTC B1655/37 is not output.

HINT:

DTCs other than DTC B1655/37 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

END

RS

DTC	B1660/43	Passenger Airbag ON / OFF Indicator Circuit Malfunction

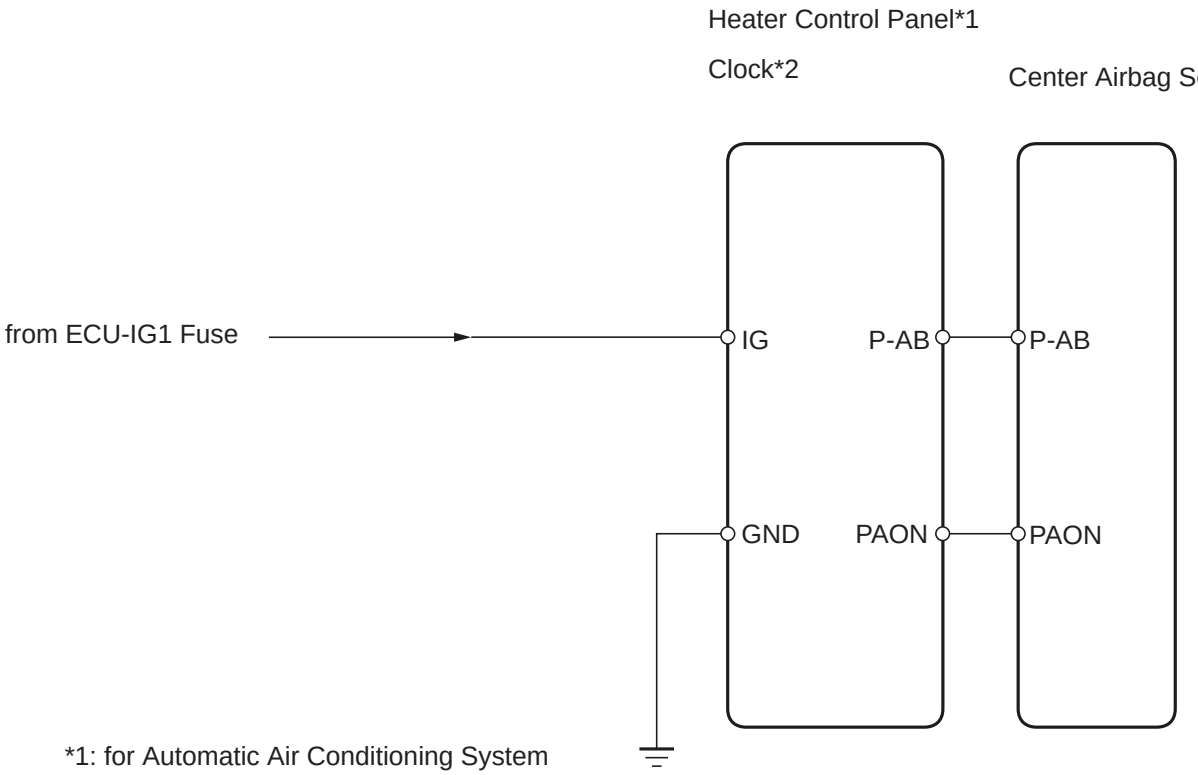
DESCRIPTION

The passenger airbag ON / OFF indicator circuit consists of the center airbag sensor and the heater control panel*1 or *2.
This circuit indicates the operation condition of the front passenger airbag, the front passenger side airbag and passenger side seat belt pretensioner.
DTC B1660/43 is set when a malfunction is detected in the passenger airbag ON / OFF indicator circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1660/43	When one of following conditions is met: • Center airbag sensor detects line short signal, open signal, short to ground signal or short to B+ signal in passenger airbag ON / OFF indicator circuit for 2 seconds • Front passenger seat belt warning light malfunction • Center airbag sensor malfunction	• Instrument panel wire • Front passenger airbag ON / OFF indicator light • Center airbag sensor

HINT:
- *1: for Automatic Air Conditioning System
- *2: for Manual Air Conditioning System

WIRING DIAGRAM

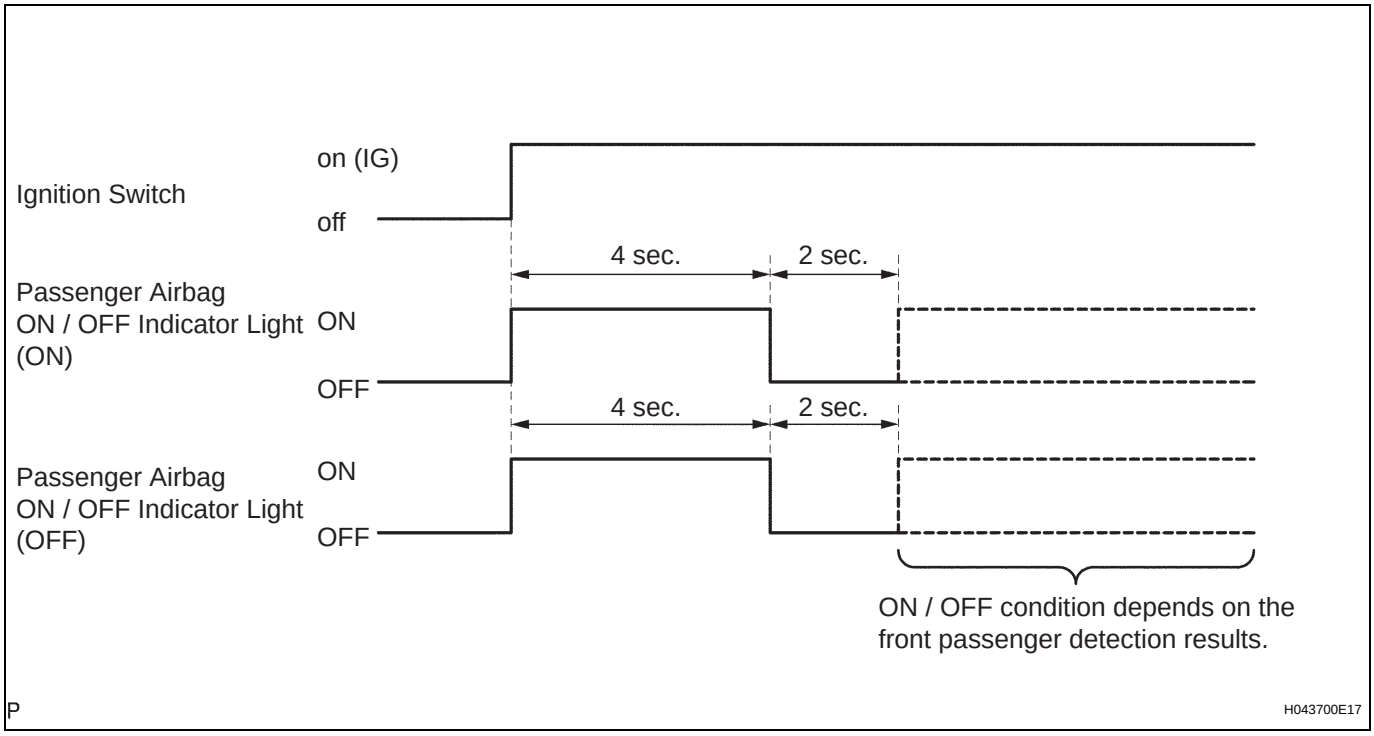


RS

INSPECTION PROCEDURE

1	CHECK PASSENGER AIRBAG ON/OFF INDICATOR OPERATION

(a) Turn the ignition switch ON.
(b) Check the passenger airbag ON / OFF indicator operation.



Result

ON / OFF Indicator Illumination	Proceed to
Always ON	A
OFF	B

B → **Go to step 8**

A

RS

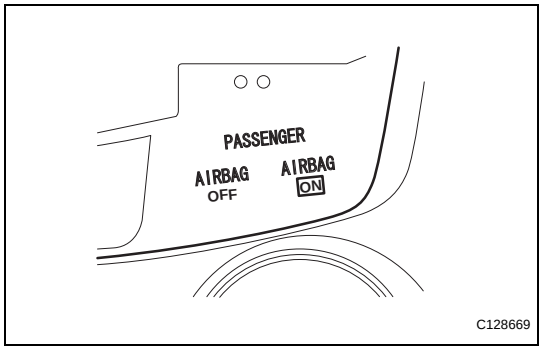
2 CHECK CONNECTION OF CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the center airbag sensor and the front passenger seat belt warning light.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

3	CHECK FRONT PASSENGER AIRBAG ON/OFF INDICATOR LIGHT



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connector from the center airbag sensor.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Check the passenger airbag ON / OFF indicator operation.

OK:

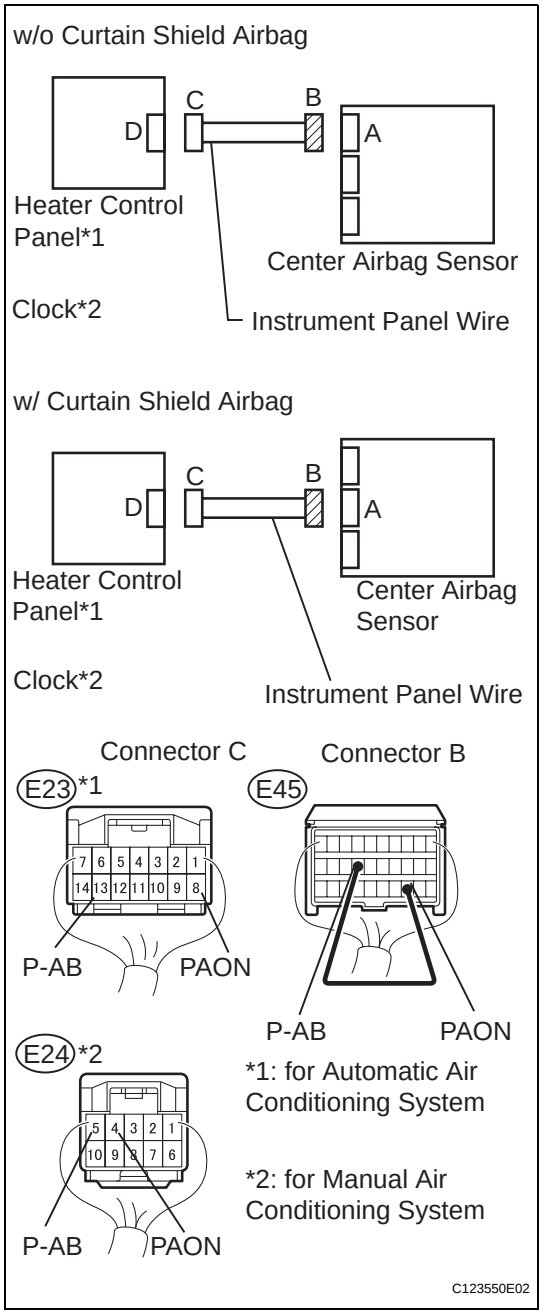
Neither ON nor OFF passenger airbag ON / OFF indicator comes on.

OK → **Go to step 14**

NG

RS

4	CHECK INSTRUMENT PANEL WIRE (FOR OPEN)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connector from the front passenger airbag ON / OFF indicator light.
(d) Using a service wire, connect E45-23 (PAON) and E45-17 (P-AB) of connector B.
NOTICE:
Do not forcibly insert the service wire into the terminals of the connector when connecting.
(e) Measure the resistance of the wire harness side connectors.
Standard resistance

Tester Connection	Specified Condition
E23-5 (PAON) - E23-13 (P-AB)*1	Below 1 Ω
E22-4 (PAON) - E22-9 (P-AB)*2	Below 1 Ω

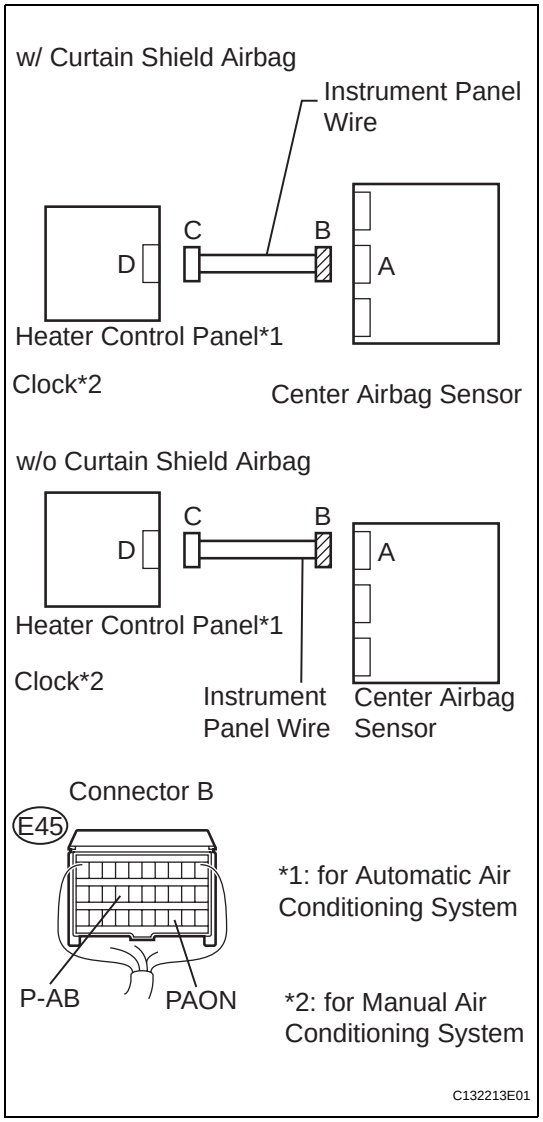
HINT:
*1: for Automatic Air Conditioning System
*2: for Manual Air Conditioning System

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

OK

RS

5	CHECK INSTRUMENT PANEL WIRE (FOR SHORT)



(a) Disconnect the service wire from connector B.
(b) Measure the resistance of the wire harness side connectors.

Standard resistance

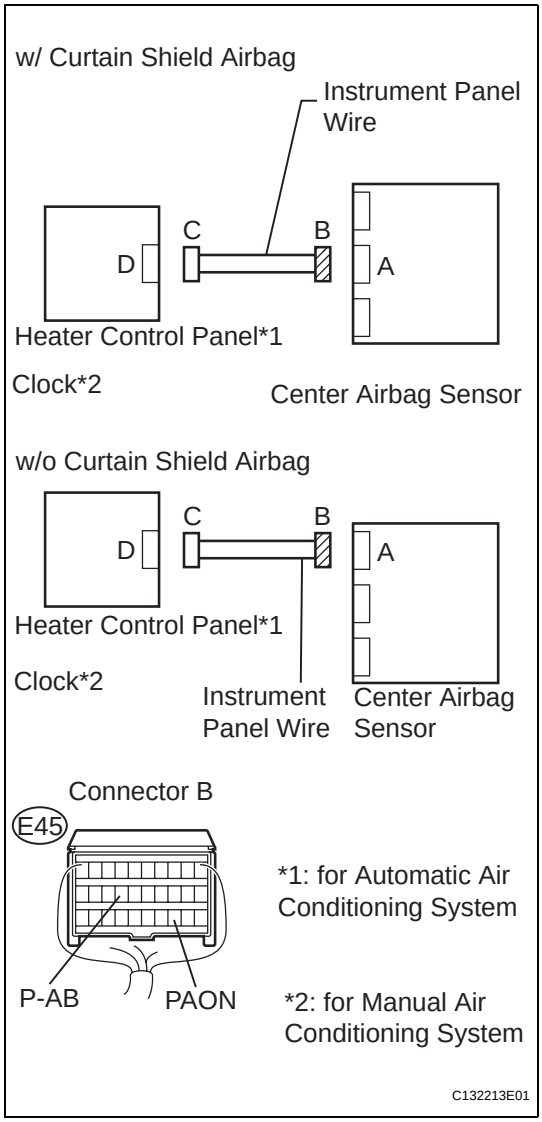
Tester Connection	Specified Condition
E45-17 (P-AB) - E45-23 (PAON)	1 MΩ or higher

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

OK

RS

6	CHECK INSTRUMENT PANEL WIRE (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connectors.

Standard voltage

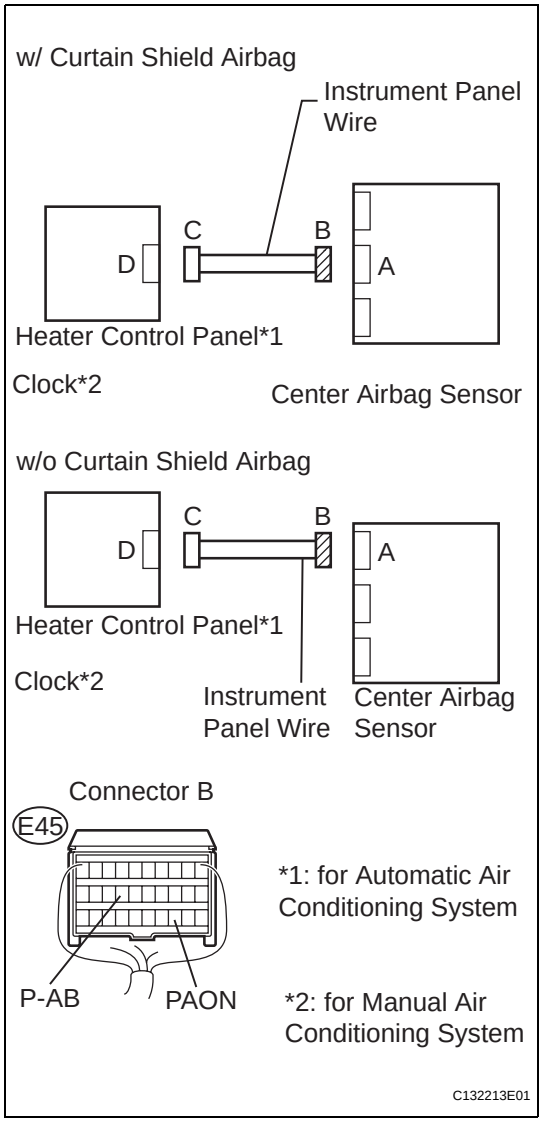
Tester Connection	Specified Condition
E45-23 (PAON) - Body ground	Below 1 V
E45-17 (P-AB) - Body ground	Below 1 V

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

OK

RS

7 CHECK INSTRUMENT PANEL WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
E45-17 (P-AB) -Body ground	1 MΩ or higher
E45-23 (PAON) -Body ground	1 MΩ or higher

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

OK

REPLACE FRONT PASSENGER AIRBAG ON/OFF INDICATOR LIGHT

8 CHECK CONNECTION OF CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the center airbag sensor and the heater control panel*1 or clock*2.

OK:

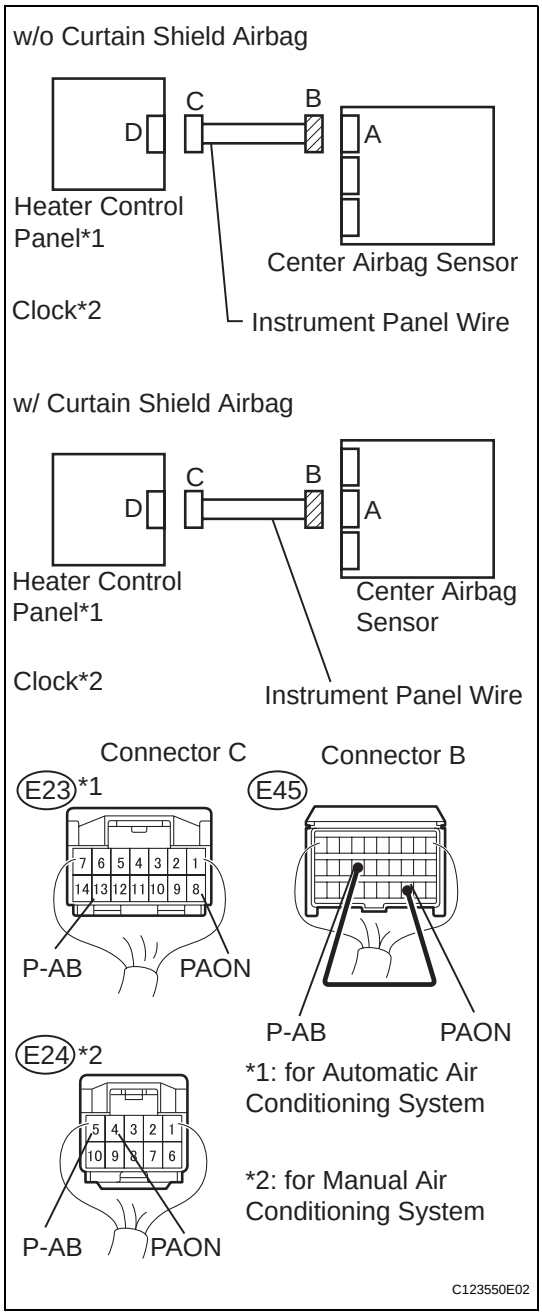
The connectors are properly connected.

RS

NG → CONNECT CONNECTOR

OK

9 CHECK INSTRUMENT PANEL WIRE (FOR OPEN)



(a) Disconnect the connector from the front passenger airbag ON / OFF indicator light

(b) Using a service wire, connect E45-23 (PAON) and E45-17 (P-AB) of connector B.

NOTICE:

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

(c) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
E23-5 (PAON) - E23-13(P-AB)*1	Below 1 Ω
E22-4 (PAON) - E22-9(P-AB)*2	Below 1 Ω

HINT:

*1: for Automatic Air Conditioning System

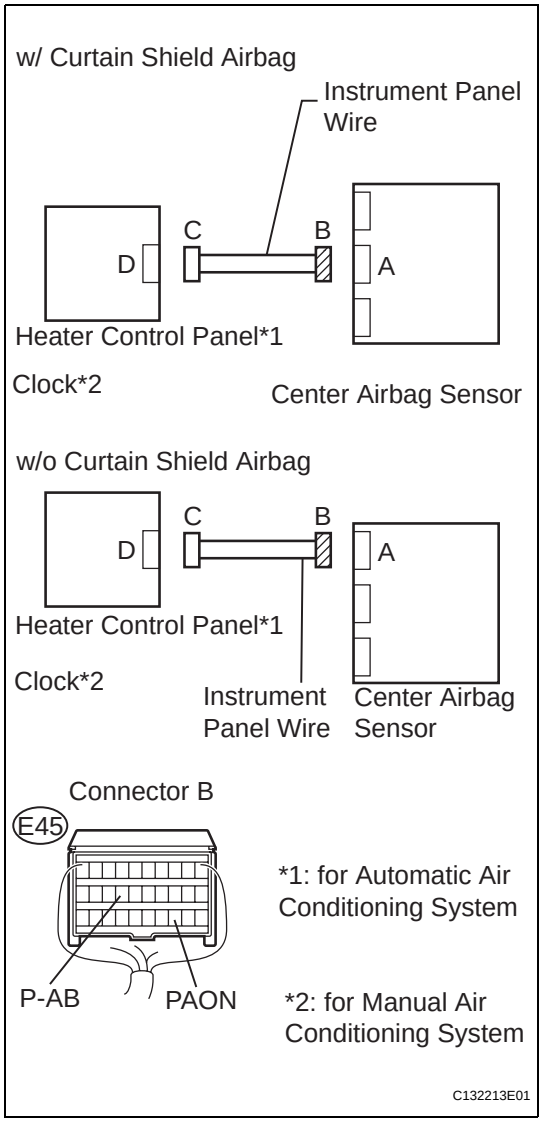
*2: for Manual Air Conditioning System

NG → REPAIR OR REPLACE INSTRUMENT PANEL WIRE

OK

RS

10	CHECK INSTRUMENT PANEL WIRE (FOR SHORT)



(a) Disconnect the service wire from connector B.
(b) Measure the resistance of the wire harness side connector.

Standard resistance

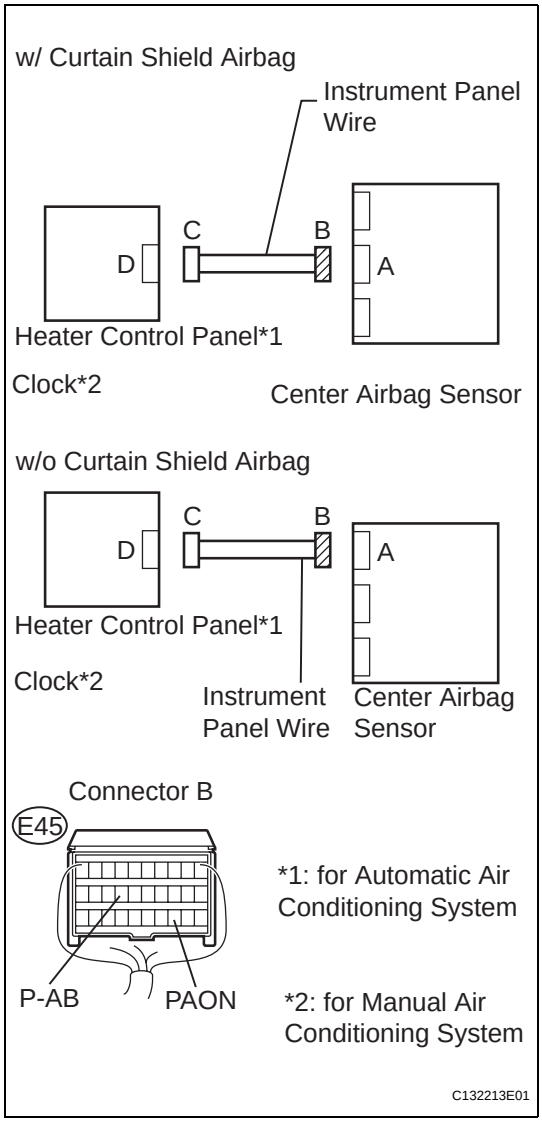
Tester Connection	Specified Condition
E45-17 (P-AB) - E45-23 (PAON)	1 MΩ or higher

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

OK

RS

11	CHECK INSTRUMENT PANEL WIRE (TO B+)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.

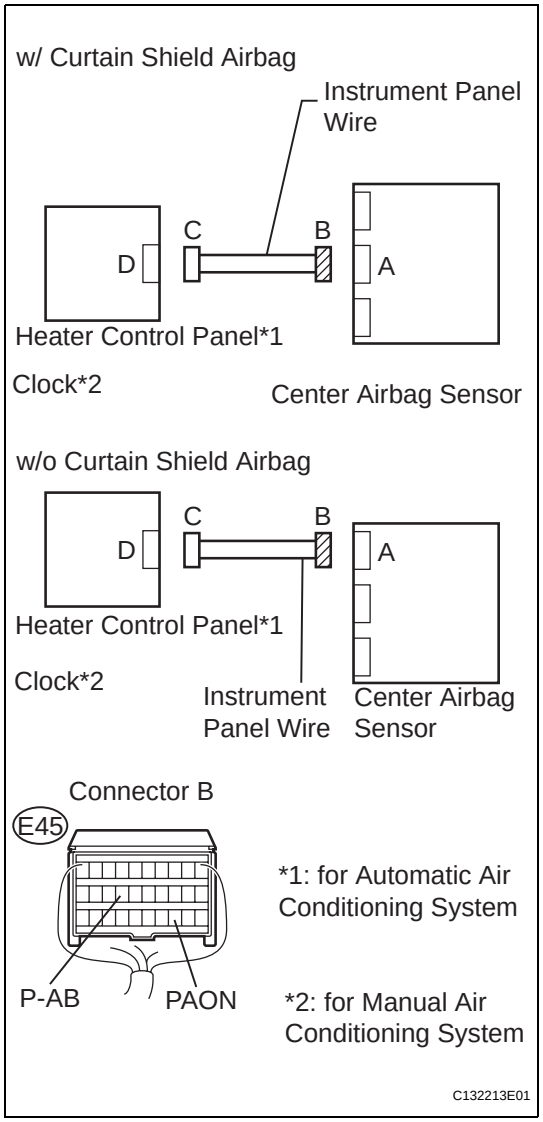
Standard voltage

Tester Connection	Specified Condition
E45-23 (PAON) - Body ground	Below 1 V
E45-17 (P-AB) - Body ground	Below 1 V

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

OK

12 CHECK INSTRUMENT PANEL WIRE (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.

Standard resistance

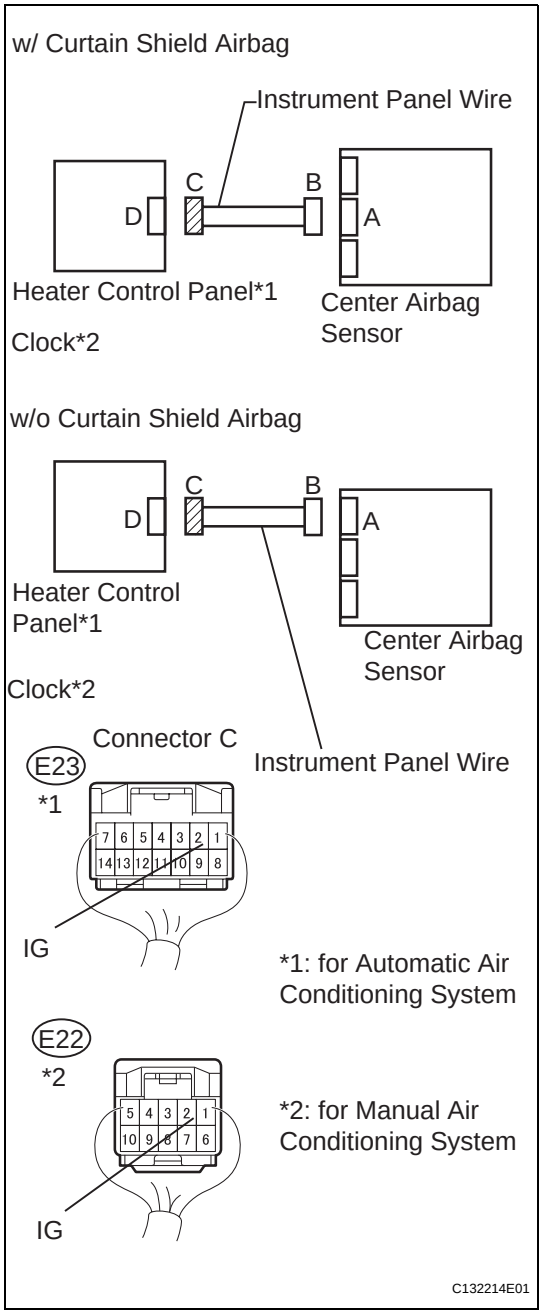
Tester Connection	Specified Condition
E45-17 (P-AB) - Body ground	1 MΩ or higher
E45-23 (PAON) - Body ground	1 MΩ or higher

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

OK

RS

13	CHECK WIRE HARNESS (POWER SOURCE)



(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
E23-2 (IG+) - Body ground*1	10 to 14 V
E22-2 (IG+) - Body ground*2	10 to 14 V

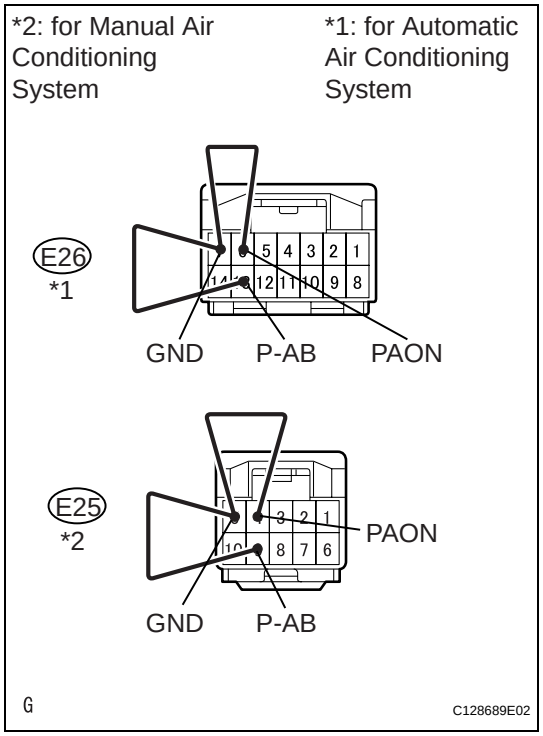
HINT:
*1: for Automatic Air Conditioning System
*2: for Manual Air Conditioning System

NG → **REPAIR OR REPLACE POWER SOURCE CIRCUIT**

OK

RS

14	CHECK FRONT PASSENGER AIRBAG ON/OFF INDICATOR LIGHT



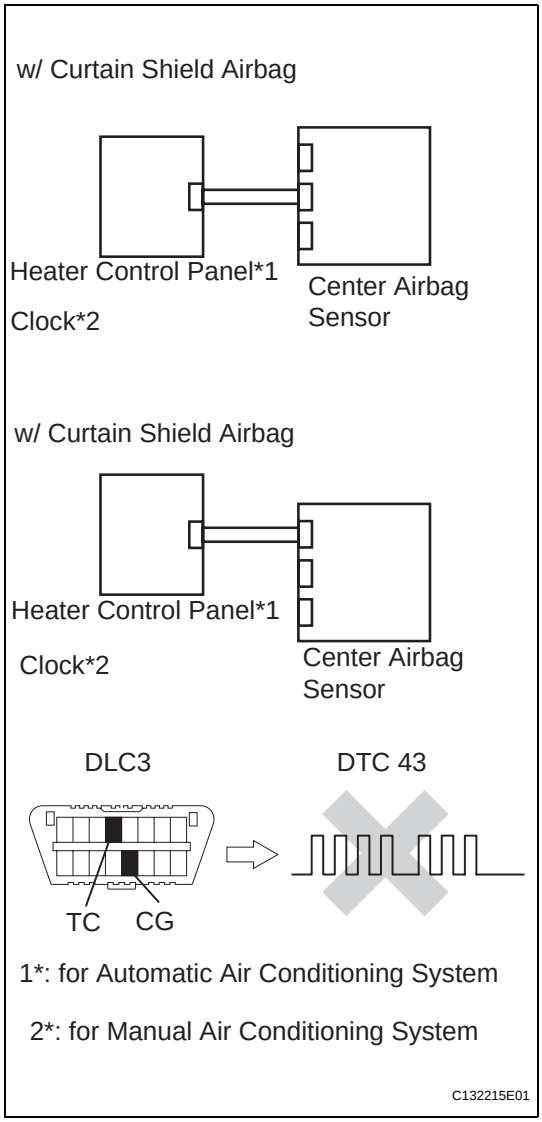
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connector from the heater control panel*1 or clock sub-assembly*2.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Using a service wire, connect E23-6*1 E22-4*2 (PAON) and E23-7*1 E22-5*2 (GND) of the heater control panel *1 or clock*2.
HINT:
*1: for Automatic Air Conditioning System
*2: for Manual Air Conditioning System
(f) Using a service wire, connect E23-13*1 E22-9*2 (P-AB) and E23-7 *1 E22-5*2 (GND) of the heater control panel *1 or clock*2.
HINT:
*1: for Automatic Air Conditioning System
*2: for Manual Air Conditioning System
(g) Turn the ignition switch ON.
(h) Check the passenger airbag ON / OFF indicator operation.
OK:
Front passenger airbag ON / OFF indicator comes on

NG → **REPLACE FRONT PASSENGER AIRBAG ON/OFF INDICATOR LIGHT**

OK

RS

15	CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
HINT:
*1: for Automatic Air Conditioning System
*2: for Manual Air Conditioning System
(c) Connect the connector to the center airbag sensor.
(d) Connect the connector to the heater control panel*1 or clock*2.
(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check for DTCs (see page RS-49).
OK:
DTC B1660/43 is not output.
HINT:
DTCs other than B1660/43 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

DTC	B1800/51	Short in Driver Side Squib Circuit

DTC	B1801/51	Open in Driver Side Squib Circuit

DTC	B1802/51	Short to GND in Driver Side Squib Circuit

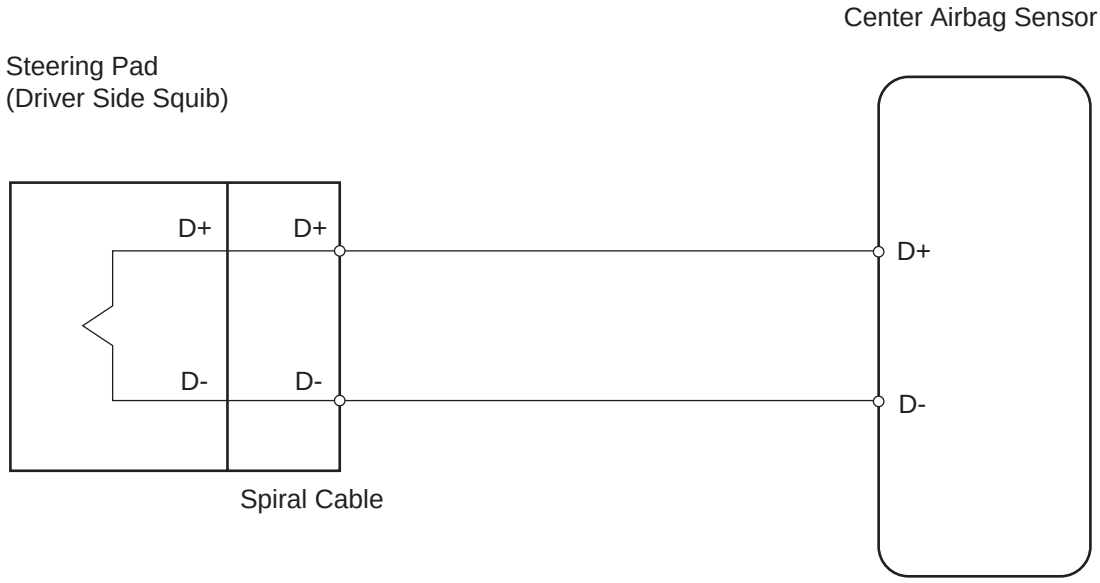
DTC	B1803/51	Short to B+ in Driver Side Squib Circuit

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 the deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the driver side squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1800/51	Center airbag sensor receives a line short signal 5 times in the driver side squib circuit during primary check.	• Instrument panel wire • Spiral cable • Steering pad (Driver side squib) • Center airbag sensor
B1801/51	Center airbag sensor receives an open signal in the driver side squib circuit for 2 seconds.	• Instrument panel wire • Spiral cable • Steering pad (Driver side squib) • Center airbag sensor
B1802/51	Center airbag sensor receives a short to ground signal in the driver side squib circuit for 0.5 seconds.	• Instrument panel wire • Spiral cable • Steering pad (Driver side squib) • Center airbag sensor
B1803/51	Center airbag sensor receives a short to B+ signal in the driver side squib circuit for 0.5 seconds.	• Instrument panel wire • Spiral cable • Steering pad (Driver side squib) • Center airbag sensor

WIRING DIAGRAM



H101253E07

RS

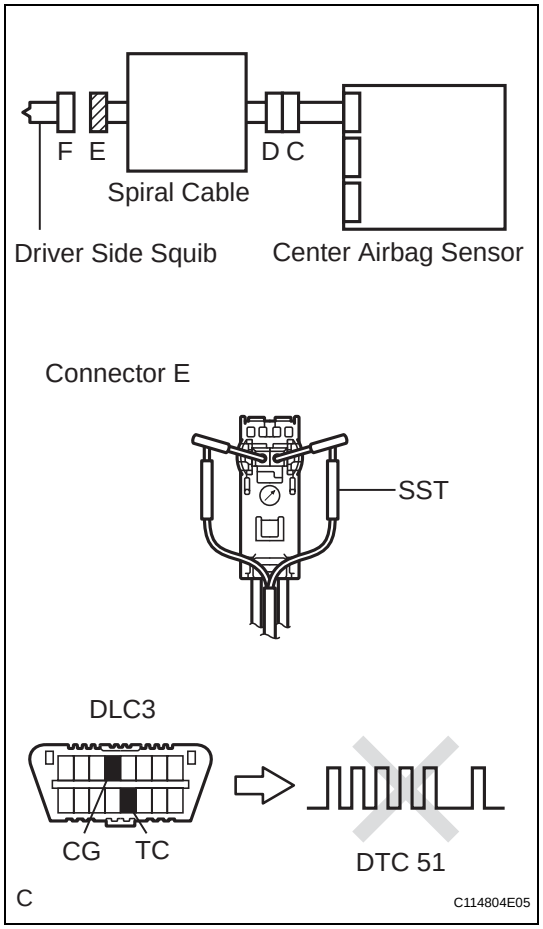
T

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK STEERING PAD (DRIVER SIDE SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to connector E.
CAUTION:
Never connect a tester to the steering pad (driver side squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
- **Do not forcibly insert SST into the terminals of the connector when connecting.**
- **Insert SST straight into the terminals of the connector.**

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch on (IG), and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).
OK:
DTC B1800, B1801, B1802, B1803 or 51 is not output.
HINT:
DTCs other than DTC B1800, B1801, B1802, B1803 or 51 may be output at this time, but they are not related to this check.

RS

OK → **REPLACE STEERING PAD**

NG

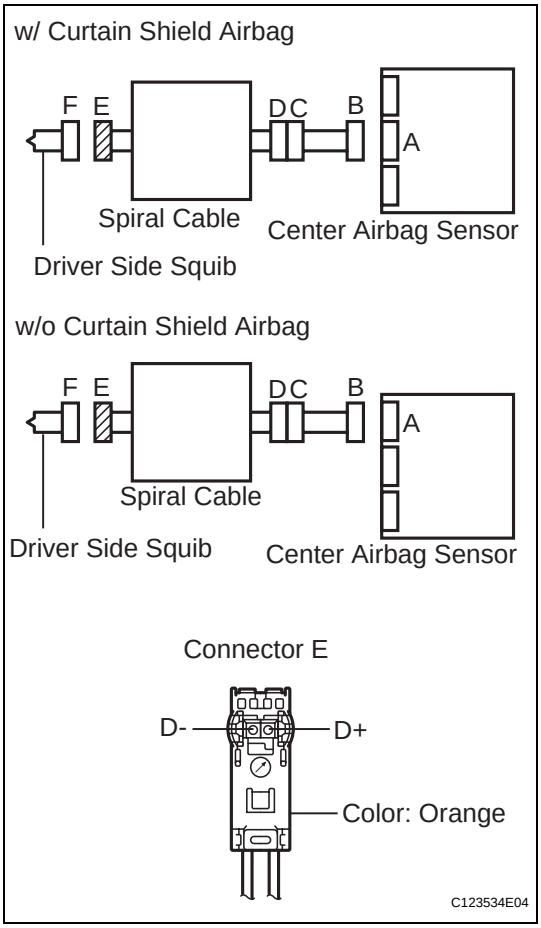
2	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from the spiral cable.
(d) Check that the spiral cable connectors (on the steering pad side) are not damaged.
OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

NG → **REPLACE SPIRAL CABLE**

OK

3	CHECK DRIVER SIDE SQUIB CIRCUIT



(a) Disconnect the connectors from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
D+ - Body ground	Below 1 V
D- - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
D+ - D-	Below 1 Ω
D+ - Body ground	1 MΩ or higher
D- - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.

Standard resistance

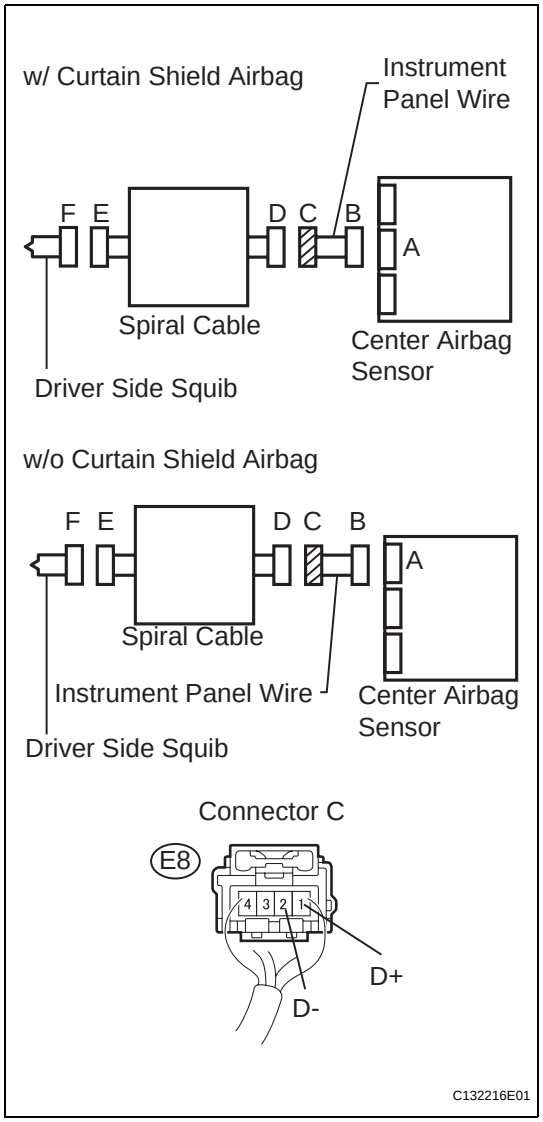
Tester Connection	Specified Condition
D+ - D-	1 MΩ or higher

OK → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG

RS

4	CHECK INSTRUMENT PANEL WIRE



(a) Restore the released activation prevention mechanism of connector B to its original position.
(b) Disconnect the instrument panel wire connector from the spiral cable.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON.
(e) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
E8-1 (D+) - Body ground	Below 1 V
E8-2 (D-) - Body ground	Below 1 V

(f) Turn the ignition switch OFF.
(g) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(h) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
E8-1 (D+) - E8-2 (D-)	Below 1 Ω
E8-1 (D+) - Body ground	1 MΩ or higher
E8-2 (D-) - Body ground	1 MΩ or higher

(i) Release the activation prevention mechanism built into connector B (see page RS-52).
(j) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
E8-1 (D+) - E8-2 (D-)	1 MΩ or higher

RS

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

OK

REPLACE SPIRAL CABLE

DTC	B1805/52	Short in Front Passenger Side Squib Circuit

DTC	B1806/52	Open in Front Passenger Side Squib Circuit

DTC	B1807/52	Short to GND in Front Passenger Side Squib Circuit

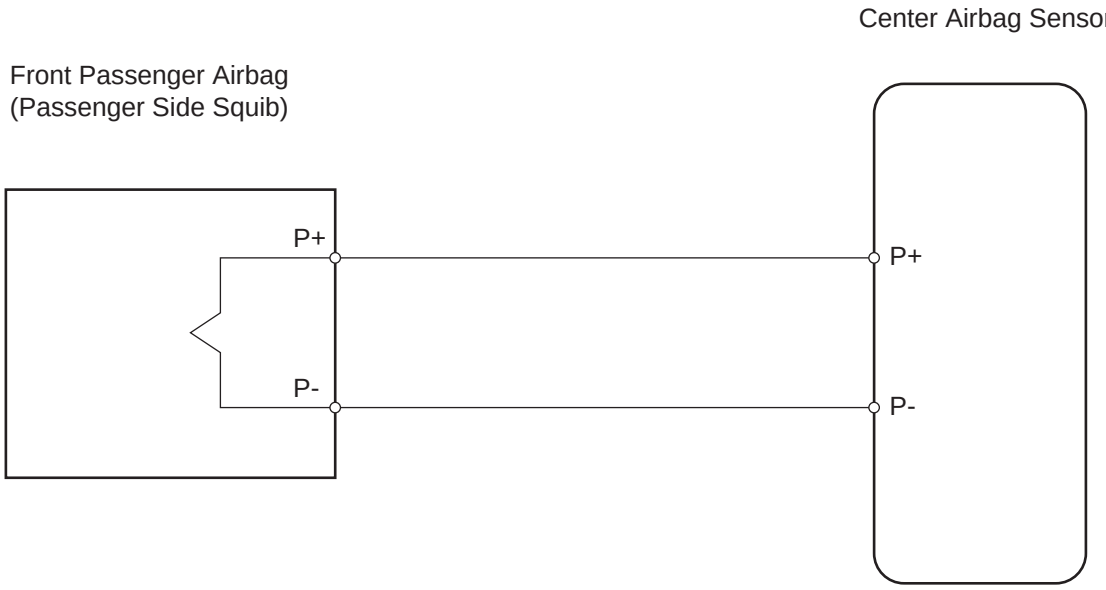
DTC	B1808/52	Short to B+ in Front Passenger Side Squib Circuit

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 the deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the front passenger side squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1805/52	Center airbag sensor receives a line short signal 5 times in the front passenger side squib circuit during primary check.	• No. 1 Instrument panel wire • No. 2 Instrument panel wire • Front passenger airbag (Front passenger side squib) • Center airbag sensor
B1806/52	Center airbag sensor assembly receives an open circuit signal in the front passenger side squib circuit for 2 seconds.	• No. 1 Instrument panel wire • No. 2 Instrument panel wire • Front passenger airbag (Front passenger side squib) • Center airbag sensor
B1807/52	Center airbag sensor receives a short to ground signal in the front passenger side squib circuit for 0.5 seconds.	• No. 1 Instrument panel wire • No. 2 Instrument panel wire • Front passenger airbag (Front passenger side squib) • Center airbag sensor
B1808/52	Center airbag sensor receives a short to B+ signal in the front passenger side squib circuit for 0.5 seconds.	• No. 1 Instrument panel wire • No. 2 Instrument panel wire • Front passenger airbag (Front passenger side squib) • Center airbag sensor

WIRING DIAGRAM



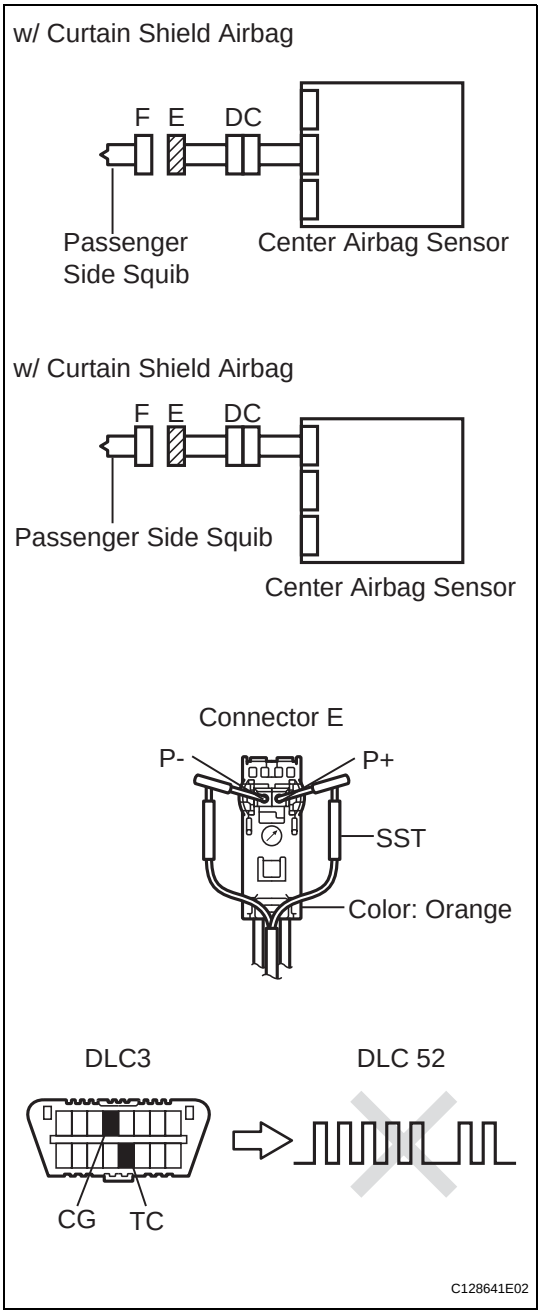
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front passenger airbag.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to the instrument panel wire connector E.

CAUTION:
Never connect a tester to the front passenger airbag (front passenger side squib) for measurement, as this may lead to a serious injury due to airbag deployment.

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

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).

OK:
DTC B1805, B1806, B1807, B1808 or 52 is not output.

HINT:
DTCs other than DTC B1805, B1806, B1807, B1808 or 52 may be output at this time, but they are not related to this check.

OK → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

NG

2	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from the instrument panel wire.
(d) Check that the instrument panel wire connectors (on the front passenger side airbag) are not damaged.

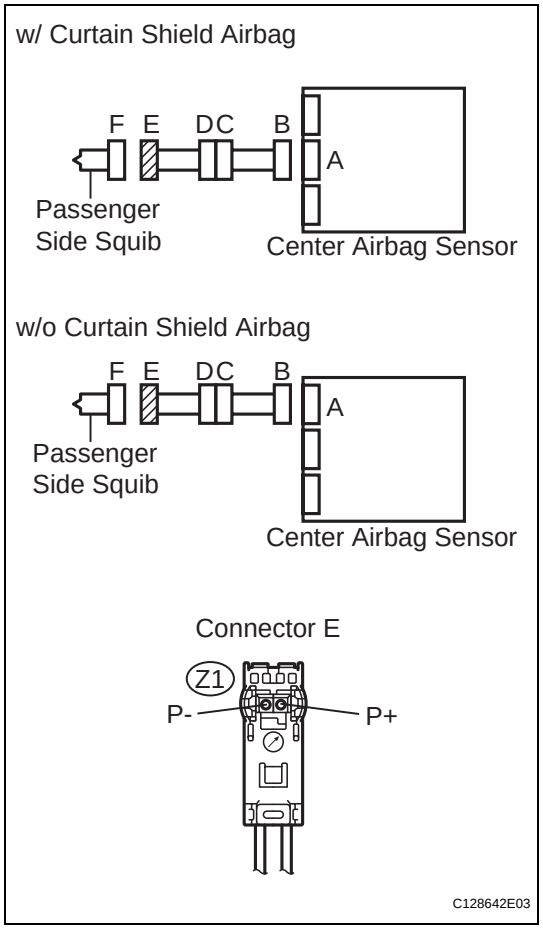
RS

OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

NG → **Go to step 4**

OK

3 CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the connector from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
Z1-1 (P+) - Body ground	Below 1 V
Z1-2 (P-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
Z1-1 (P+) - Z1-2 (P-)	Below 1 Ω
Z1-1 (P+) - Body ground	1 MΩ or higher
Z1-2 (P-) - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.
Standard resistance

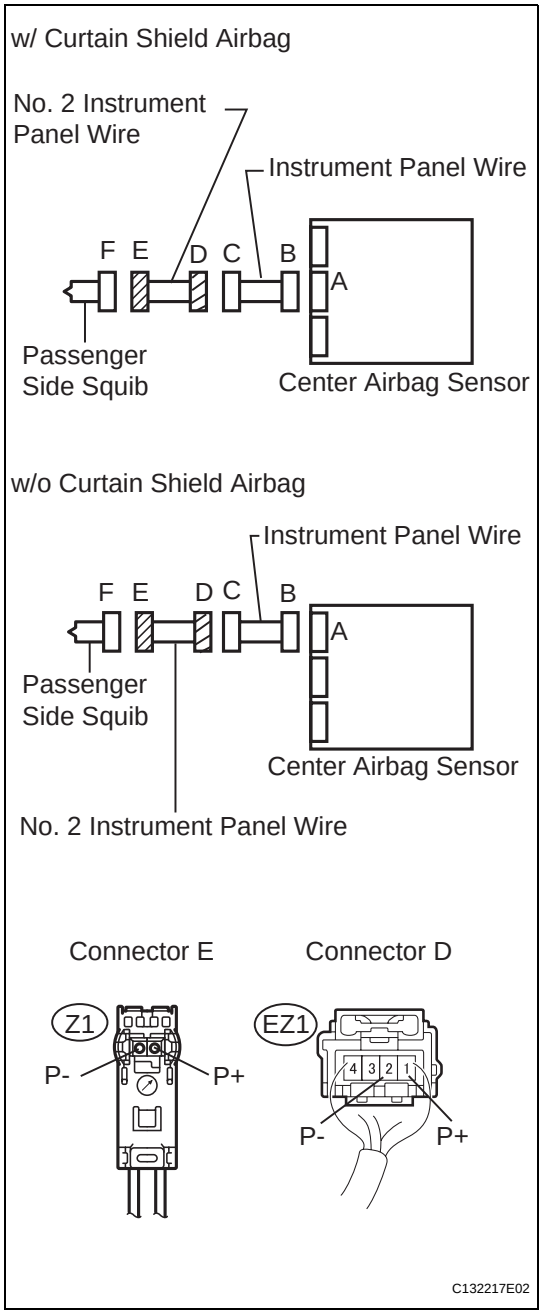
Tester Connection	Specified Condition
Z1-1 (P+) - Z1-2 (P-)	1 MΩ or higher

OK → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG

RS

4	CHECK NO. 2 INSTRUMENT PANEL WIRE



(a) Disconnect the No. 2 floor wire connector from the floor wire.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
Z1-1 (P+) - Body ground	Below 1 V
Z1-2 (P-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
Z1-2 (P-) - EZ1-2	Below 1 Ω
Z1-1 (P+) - EZ1-1	Below 1 Ω
Z1-2 (P-) - Z1-1 (P+)	1 MΩ or higher
Z1-2 (P-) - Body ground	1 MΩ or higher
Z1-1 (P+) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE NO. 2 INSTRUMENT PANEL WIRE**

RS

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

DTC	B1810/53	Short in Driver Side Squib 2nd Step Circuit

DTC	B1811/53	Open in Driver Side Squib 2nd Step Circuit

DTC	B1812/53	Short to GND in Driver Side Squib 2nd Step Circuit

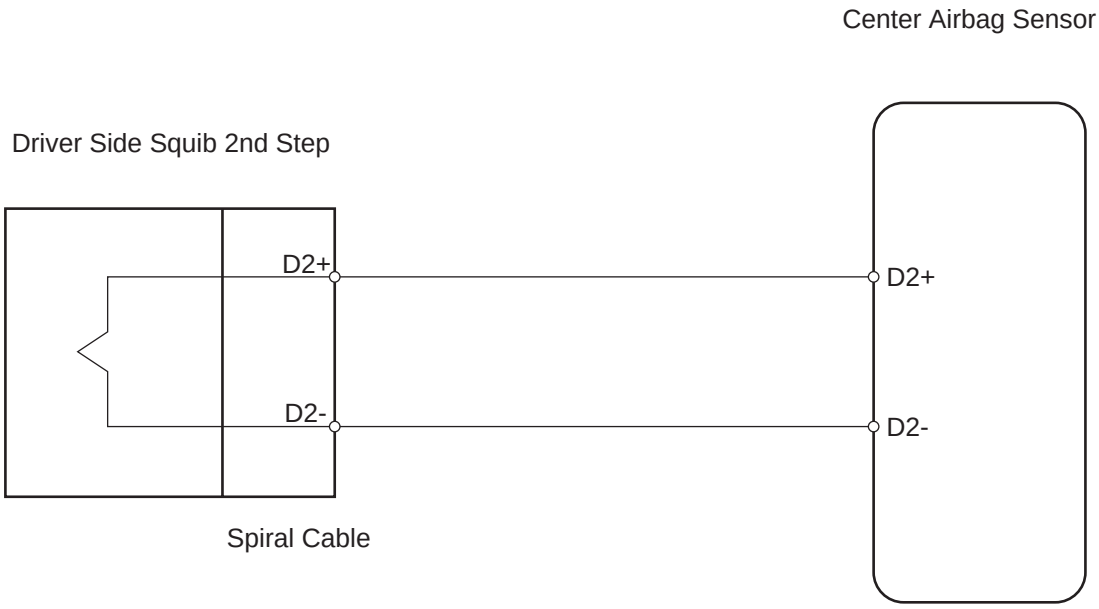
DTC	B1813/53	Short to B+ in Driver Side Squib 2nd Step Circuit

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 the deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the driver side squib 2nd step circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1810/53	Center airbag sensor receives a line short signal 5 times in the driver side squib 2nd step circuit during primary check.	• Instrument panel wire • Spiral cable • Steering pad (Driver side squib 2nd step) • Center airbag sensor
B1811/53	Center airbag sensor receives an open signal in the driver side squib 2nd step circuit for 2 seconds.	• Instrument panel wire • Spiral cable • Steering pad (Driver side squib 2nd step) • Center airbag sensor
B1812/53	Center airbag sensor assembly receives a short circuit to ground signal in the driver side 2nd step circuit for 0.5 seconds.	• Instrument panel wire • Spiral cable • Steering pad (Driver side squib 2nd step) • Center airbag sensor
B1813/53	Center airbag sensor assembly receives a short circuit to B+ signal in the driver side squib 2nd step circuit for 0.5 seconds.	• Instrument panel wire • Spiral cable • Steering pad (Driver side squib 2nd step) • Center airbag sensor

WIRING DIAGRAM



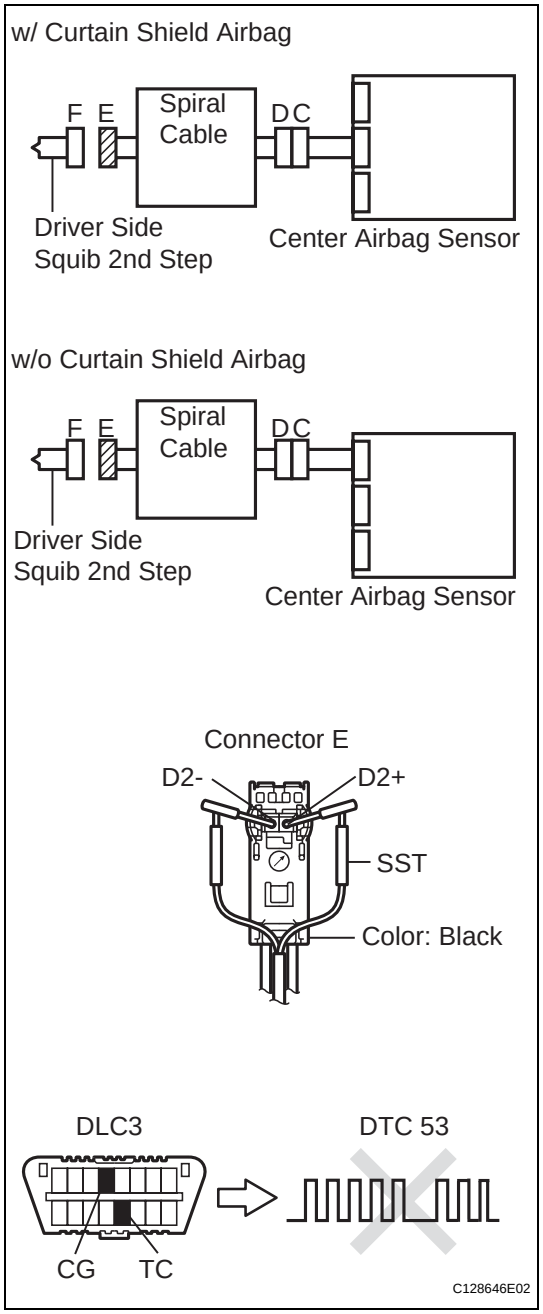
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK STEERING PAD (DRIVER SIDE SQUIB 2ND STEP)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connectors from the steering pad.
(d) Connect the white wire side of SST to the spiral cable connector E.

CAUTION:
Never connect a tester to the steering pad (driver side squib 2nd step) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
- **Do not forcibly insert SST into the terminals of the connector when connecting.**
- **Insert SST straight into the terminals of the connector.**

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).

OK:
DTC B1810, B1811, B1812, B1813 or 53 is not output.

HINT:
DTCs other than DTC B1810, B1811, B1812, B1813 or 53 may be output at this time, but they are not related to this check.

OK → **REPLACE STEERING PAD**

NG

2	CHECK CONNECTOR

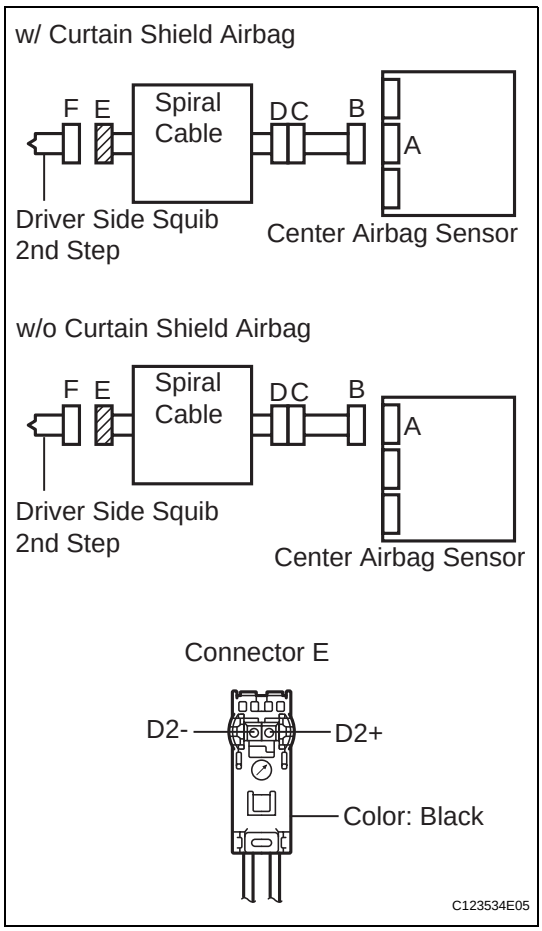
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from the spiral cable.
(d) Check that the spiral cable connector (on the steering pad side) is not damaged.

OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

NG → **REPLACE SPIRAL CABLE**

OK

3 CHECK DRIVER SIDE SQUIB 2ND STEP CIRCUIT



(a) Disconnect the connector from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
D2+ - Body ground	Below 1 V
D2- - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
D2+ - D2-	Below 1 Ω
D2+ - Body ground	1 MΩ or higher
D2- - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.
Standard resistance

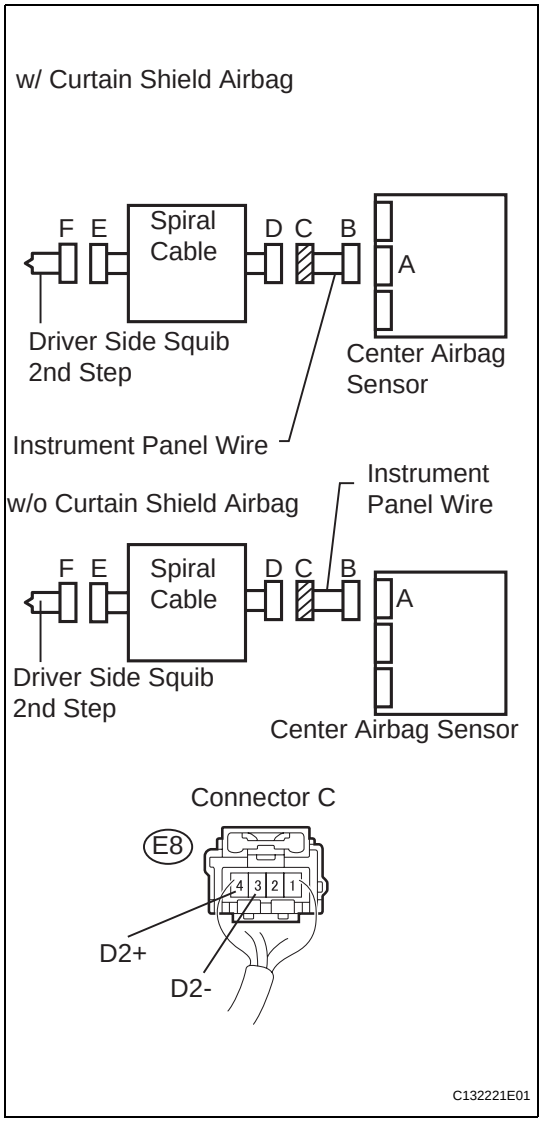
Tester Connection	Specified Condition
D2+ - D2-	1 MΩ or higher

OK → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

RS

4	CHECK INSTRUMENT PANEL WIRE



(a) Restore the released activation prevention mechanism of connector B to its original position.
(b) Disconnect the instrument panel wire connector from the spiral cable.
(c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(d) Turn the ignition switch ON.
(e) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
E8-4 (D2+) - Body ground	Below 1 V
E8-3 (D2-) - Body ground	Below 1 V

(f) Turn the ignition switch OFF.
(g) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(h) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
E8-4 (D2+) - E8-3 (D2-)	Below 1 Ω
E8-4 (D2+) - Body ground	1 MΩ or higher
E8-3 (D2-) - Body ground	1 MΩ or higher

(i) Release the activation prevention mechanism built into connector B (see page RS-37).
(j) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
E8-4 (D2+) - E8-3 (D2-)	1 MΩ or higher

RS

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

OK

REPLACE SPIRAL CABLE

DTC	B1815/54	Short in Front Passenger Side Squib 2nd Step Circuit

DTC	B1816/54	Open in Front Passenger Side Squib 2nd Step Circuit

DTC	B1817/54	Short to GND in Front Passenger Side Squib 2nd Step Circuit

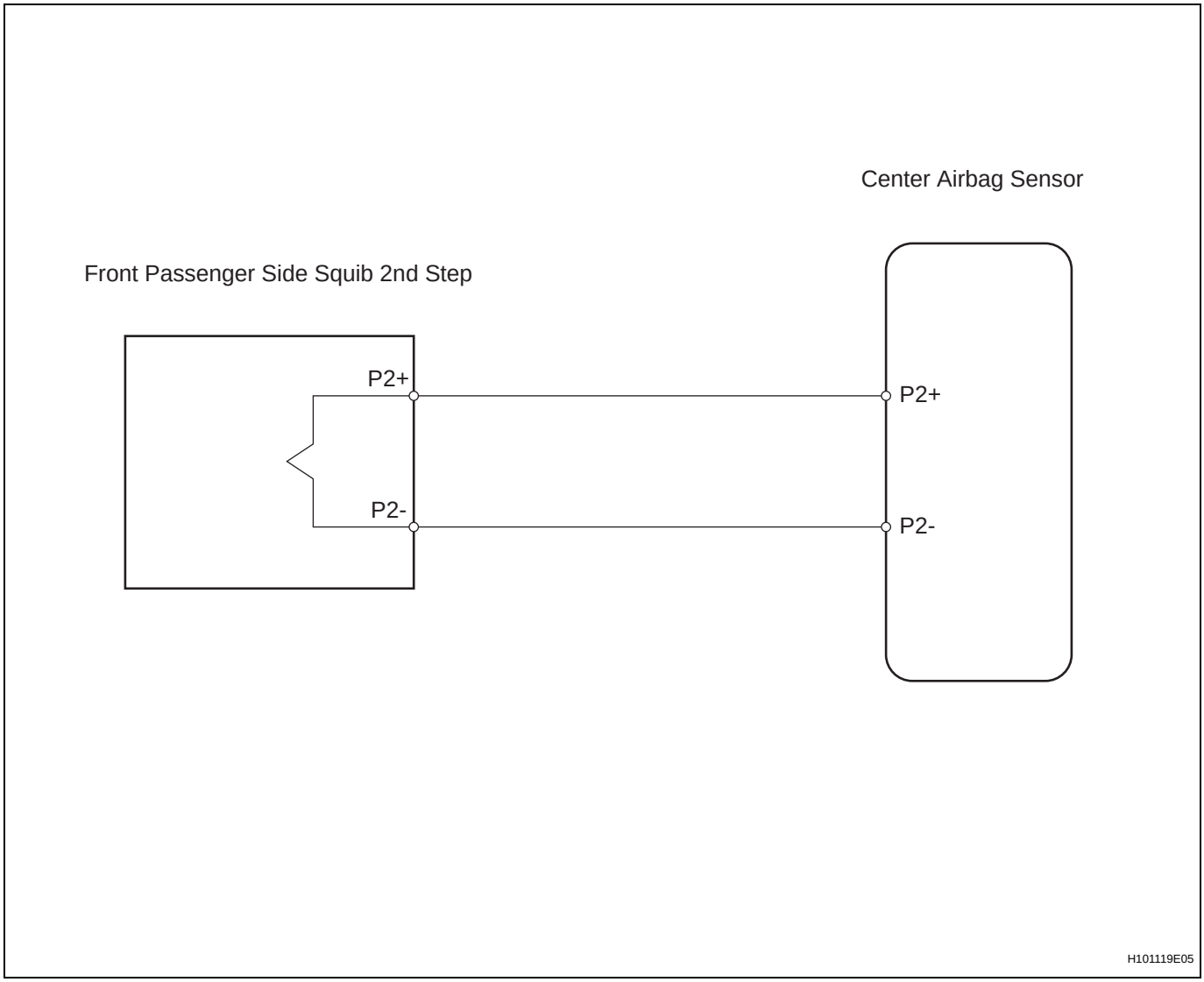
DTC	B1818/54	Short to B+ in Front Passenger Side Squib 2nd Step Circuit

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 deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the front passenger side squib 2nd step circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1815/54	Center airbag sensor receives a line short signal 5 times in the front passenger side squib 2nd step circuit during primary check.	• Instrument panel wire • Front passenger airbag (Front passenger side squib 2nd step) • Center airbag sensor
B1816/54	Center airbag sensor receives an open signal in the front passenger side squib 2nd step circuit for 2 seconds.	• Instrument panel wire • Front passenger airbag (Front passenger side squib 2nd step) • Center airbag sensor
B1817/54	Center airbag sensor receives a short to ground signal in the front passenger side squib 2nd step circuit for 0.5 seconds.	• Instrument panel wire • Front passenger airbag (Front passenger side squib 2nd step) • Center airbag sensor
B1818/54	Center airbag sensor receives a short to B+ signal in the front passenger side squib 2nd step circuit for 0.5 seconds.	• Instrument panel wire • Front passenger airbag (Front passenger side squib 2nd step) • Center airbag sensor

WIRING DIAGRAM



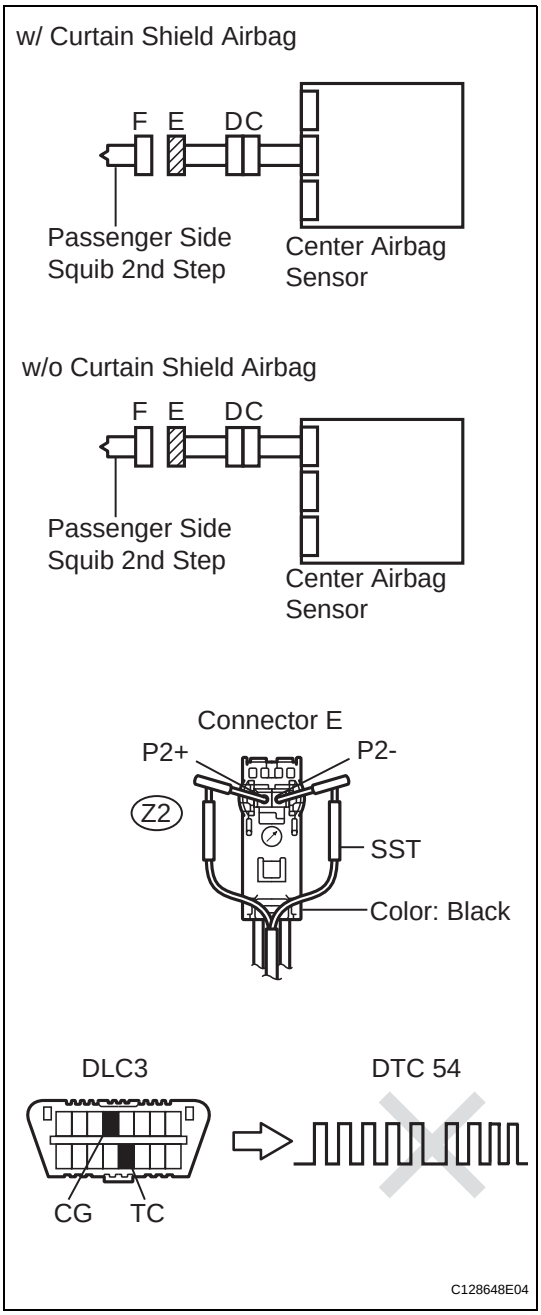
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK FRONT PASSENGER AIRBAG ASSEMBLY (FRONT PASSENGER SIDE SQUIB 2ND STEP)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connector from the front passenger airbag.
(d) Connect the white wire side of SST to the instrument panel wire connector E.

CAUTION:
Never connect a tester to the front passenger airbag (front passenger side squib 2nd step) for measurement, as this may lead to a serious injury due to airbag deployment.

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

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).

OK:
DTC B1815, B1816, B1817, B1818 or 54 is not output.

HINT:
DTCs other than DTC B1815, B1816, B1817, B1818 and 54 may be output at this time, but they are not related to this check.

OK → **REPLACE FRONT PASSENGER AIRBAG ASSEMBLY**

NG

2	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST (resistance 2.1 Ω) from the instrument panel wire.
(d) Check that the instrument panel wire connectors (on the front passenger side airbag) are not damaged.

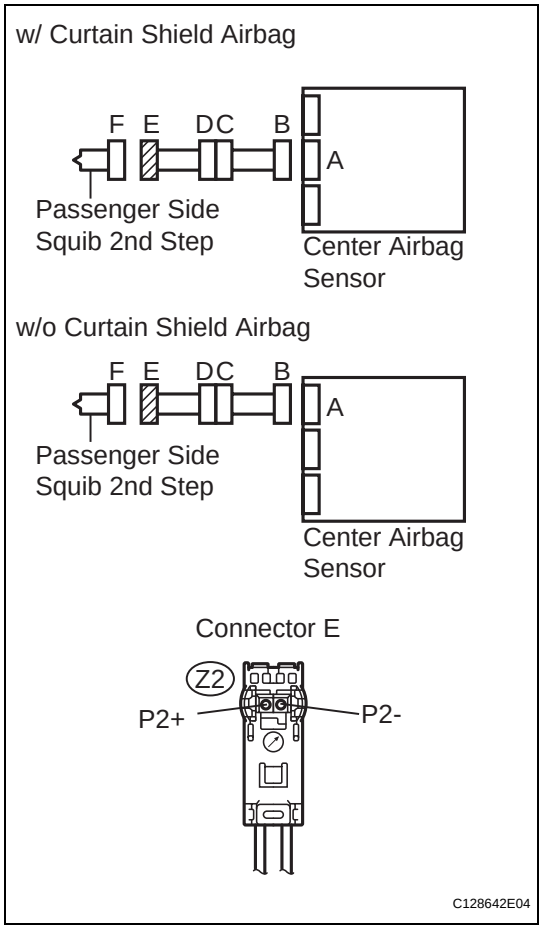
OK:

Lock button is not disengaged, and claw of lock is not deformed or damaged.

NG → **REPLACE INSTRUMENT PANEL WIRE**

OK

3 CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the connector from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
Z2-2 (P2+) - Body ground	Below 1 V
Z2-1 (P2-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
Z2-2 (P2+) - Z2-1 (P2-)	Below 1 Ω
Z2-2 (P2+) - Body ground	1 MΩ or higher
Z2-1 (P2-) - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.

Standard resistance

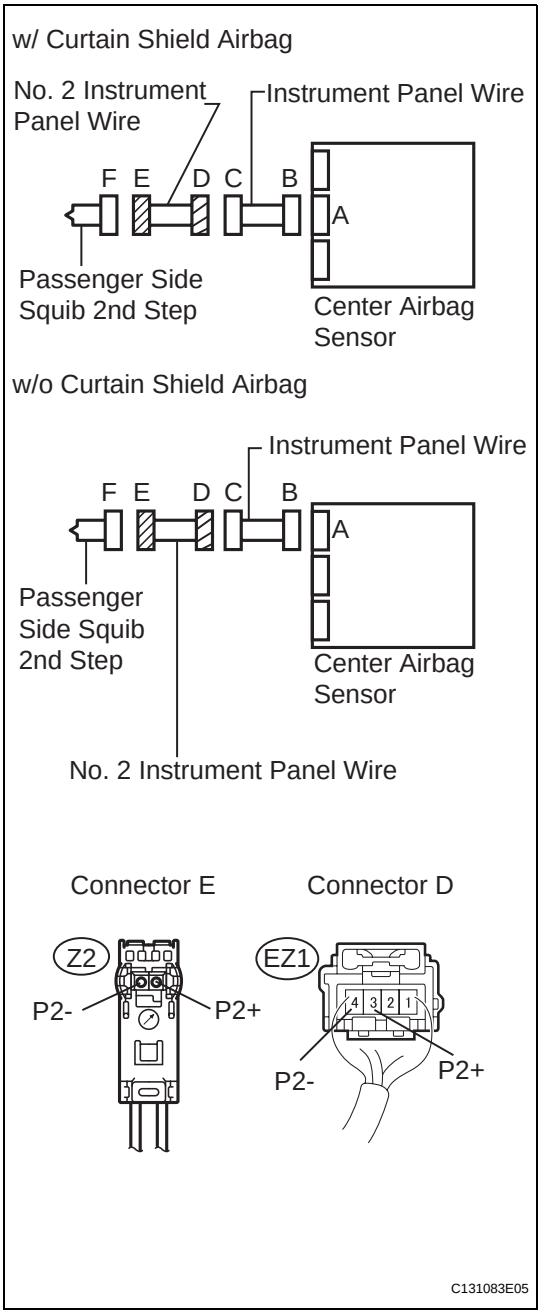
Tester Connection	Specified Condition
Z2-2 (P2+) - Z2-1 (P2-)	1 MΩ or higher

OK → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG

RS

4	CHECK NO. 2 INSTRUMENT PANEL WIRE



(a) Disconnect the No. 2 instrument panel wire connector from the instrument panel wire.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
Z2-2 (P2+) - Body ground	Below 1 V
Z2-1 (P2-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
Z2-2 (P2+) - EZ1-3	Below 1 Ω
Z2-1 (P2-) - EZ1-4	Below 1 Ω
Z2-2 (P2+) - Z2-1 (P2-)	Below 1 Ω
Z2-2 (P2+) - Body ground	1 MΩ or higher
Z2-1 (P2-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE NO. 2 INSTRUMENT PANEL WIRE**

OK

REPAIR OR REPLACE INSTRUMENT PANEL WIRE

RS

DTC	B1820/55	Short in Front Driver Side - Side Squib Circuit

DTC	B1821/55	Open in Front Driver Side - Side Squib Circuit

DTC	B1822/55	Short to GND in Front Driver Side - Side Squib Circuit

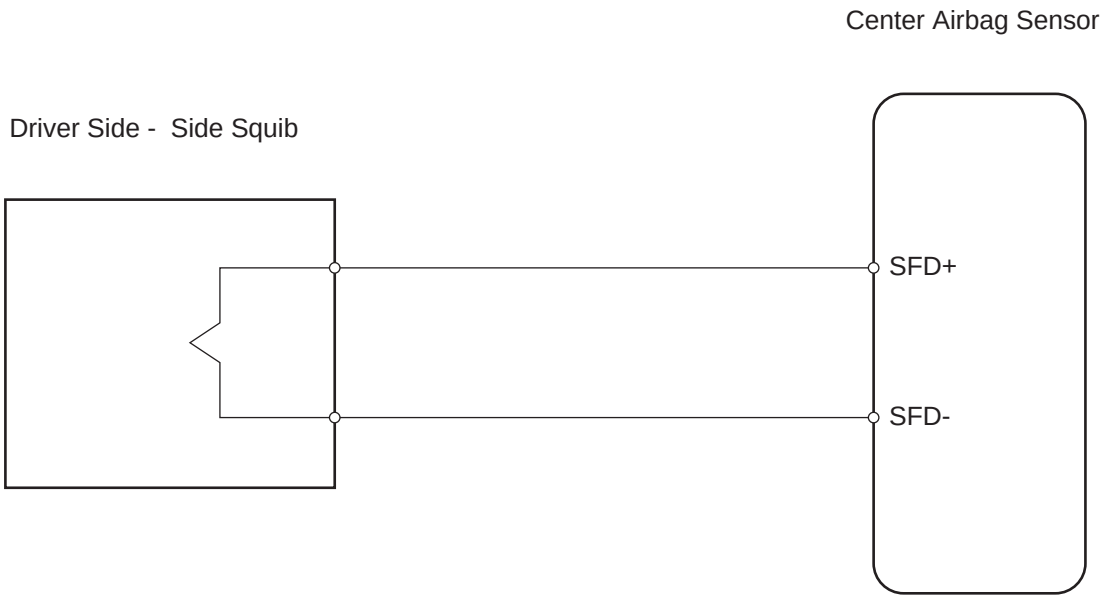
DTC	B1823/55	Short to B+ in Front Driver Side - Side Squib Circuit

DESCRIPTION

The driver side - side squib circuit consists of the center airbag sensor and the front seat side airbag LH. This circuit instructs the SRS to deploy when the deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the driver side - side squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1820/55	Center airbag sensor receives a line short signal 5 times in the driver side - side squib circuit during primary check.	• Floor wire • No. 1 seat airbag wire • Front seat side airbag LH (Driver side - side squib) • Center airbag sensor
B1821/55	Center airbag sensor receives an open signal in the driver side - side squib circuit for 2 seconds.	• Floor wire • No. 1 seat airbag wire • Front seat side airbag LH (Driver side - side squib) • Center airbag sensor
B1822/55	Center airbag sensor receives a short to ground signal in the driver side - side squib circuit for 0.5 seconds.	• Floor wire • No. 1 seat airbag wire • Front seat side airbag LH (Driver side - side squib) • Center airbag sensor
B1823/55	Center airbag sensor receives a short to B+ signal in the driver side - side squib circuit for 0.5 seconds.	• Floor wire • No. 1 seat airbag wire • Front seat side airbag LH (Driver side - side squib) • Center airbag sensor

WIRING DIAGRAM



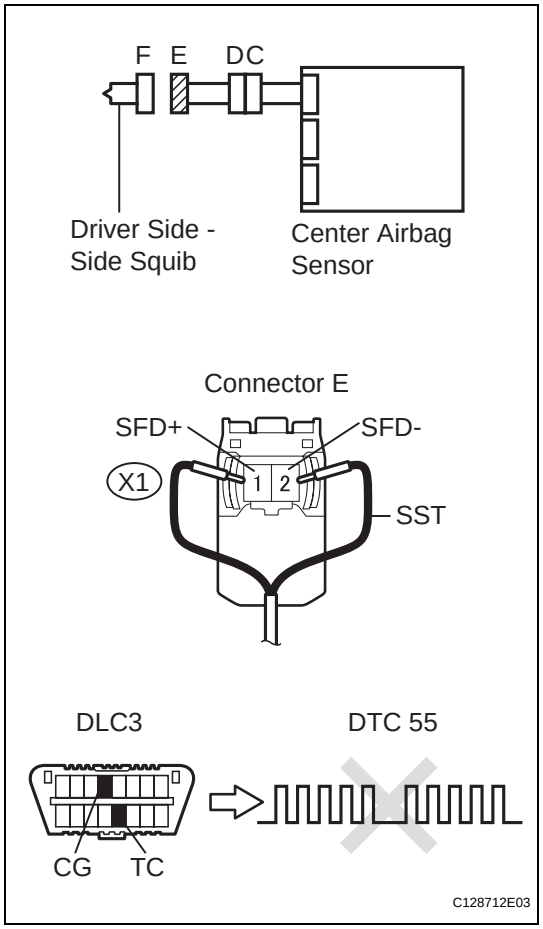
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY LH (DRIVER SIDE - SIDE SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connector from the front seat side airbag LH.
(d) Connect the black wire side of SST to connector E.
CAUTION:
Never connect a tester to the front seat side airbag LH (driver side - side squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
- **Do not forcibly insert SST into the terminals of the connector when connecting.**
- **Insert SST straight into the terminals of the connector.**

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).
OK:
DTC B1820, B1821, B1822, B1823 or 55 is not output.
HINT:
DTCs other than DTC B1820, B1821, B1822, B1823 or 55 may be output at this time, but they are not related to this check.

OK → **REPLACE FRONT SEAT ASSEMBLY LH**

NG

2	CHECK CONNECTOR

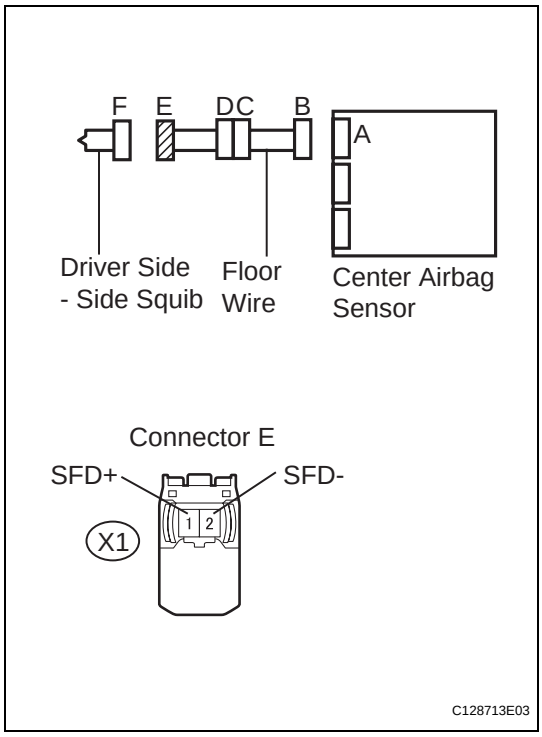
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from the No. 1 seat airbag wire.
(d) Check that the floor wire connectors (on the driver side - side squib) are not damaged.
OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

NG → **REPLACE FLOOR WIRE**

RS

OK

3	CHECK FLOOR WIRE (DRIVER SIDE - SIDE SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
X1-1 (SFD-) - Body ground	Below 1 V
X1-2 (SFD+) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
X1-1 (SFD-) - X1-2 (SFD+)	Below 1 Ω
X1-1 (SFL-) - Body ground	1 MΩ or higher
X1-2 (SFL+) - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.

Standard resistance

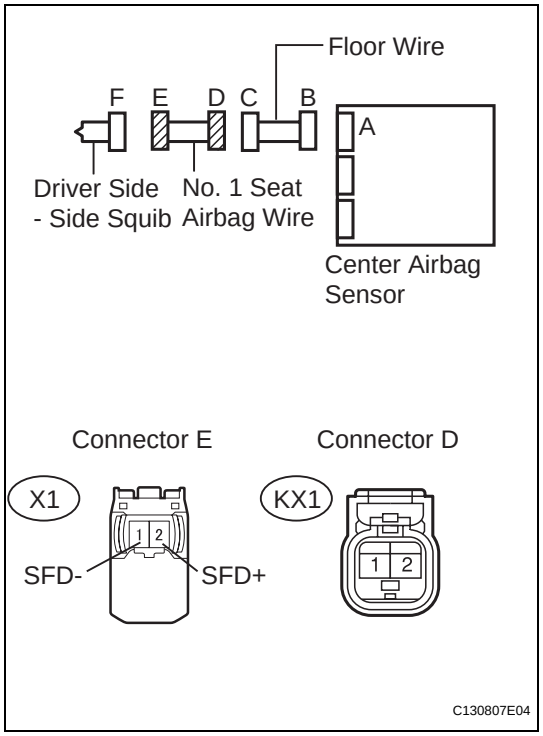
Tester Connection	Specified Condition
X1-1 (SFD-) - X1-2 (SFD+)	1 MΩ or higher

RS

OK → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

NG

4	CHECK NO. 1 SEAT AIRBAG WIRE



(a) Disconnect the No. 1 seat airbag wire connector from the floor wire.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
X1-1 (SFD-) - Body ground	Below 1 V
X1-2 (SFD+) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
X1-2 (SFD+) - KX1-2	Below 1 Ω
X1-1 (SFD-) - KX1-1	Below 1 Ω
X1-2 (SFD+) - X1-1 (SFD-)	1 MΩ or higher
X1-2 (SFD+) - Body ground	1 MΩ or higher
X1-1 (SFD-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE NO. 1 SEAT AIRBAG WIRE**

OK

REPAIR OR REPLACE FLOOR WIRE

RS

DTC	B1825/56	Short in Front Passenger Side - Side Squib Circuit

DTC	B1826/56	Open in Front Passenger Side - Side Squib Circuit

DTC	B1827/56	Short to GND in Front Passenger Side - Side Squib Circuit

DTC	B1828/56	Short to B+ in Front Passenger Side - Side Squib Circuit

DESCRIPTION

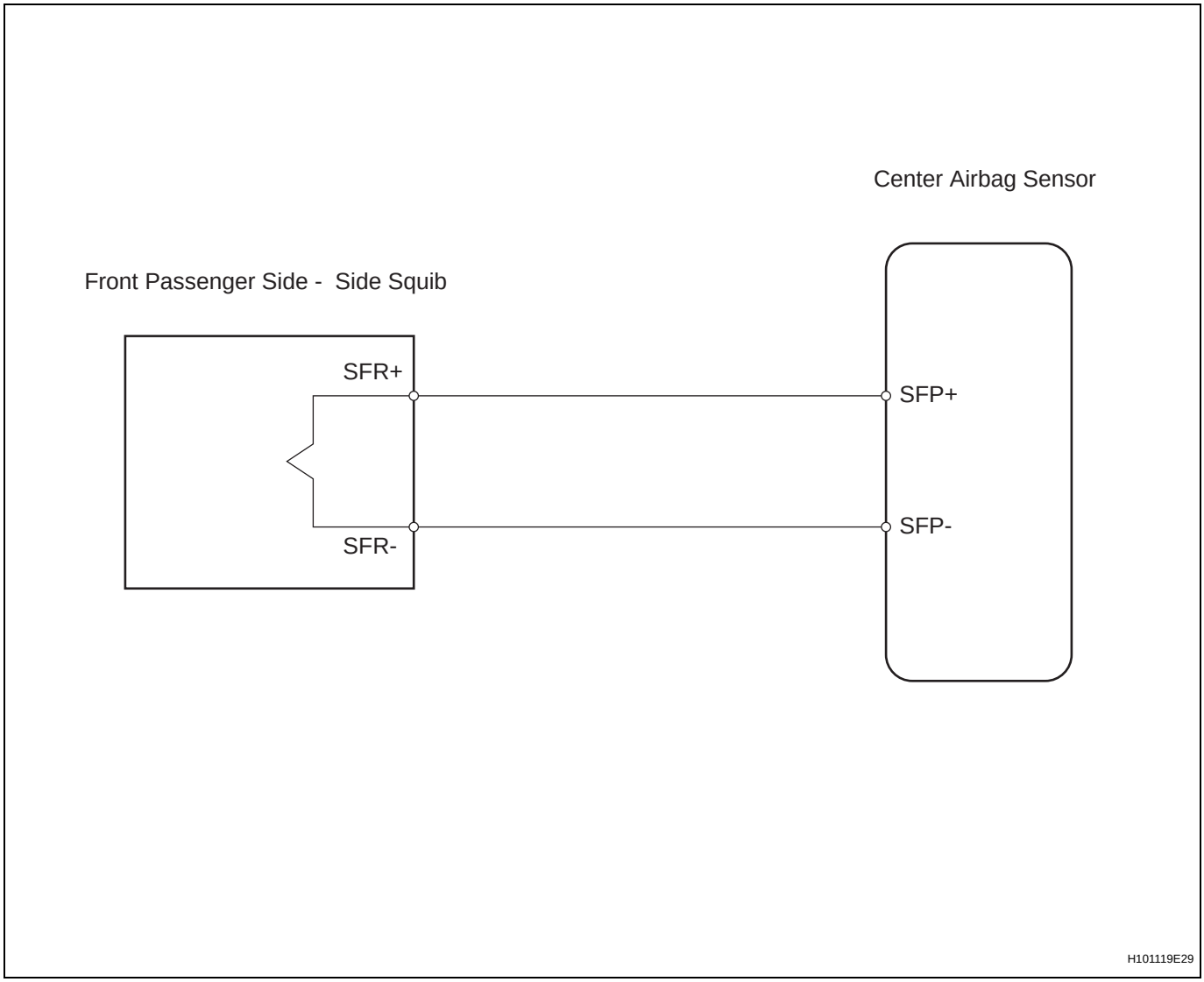
The front passenger side - side squib circuit consists of the center airbag sensor and the front seat side airbag RH.

The circuit instructs the SRS to deploy when the deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side - side squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1825/56	The center airbag sensor receives a line short signal 5 times in the front passenger side - side squib circuit during primary check.	• No. 2 floor wire • No. 2 seat airbag wire • Front seat side airbag RH (Front passenger side - side squib) • Center airbag sensor
B1826/56	Center airbag sensor receives an open signal in the front passenger side - side squib circuit for 2 seconds.	• No. 2 floor wire • No. 2 seat airbag wire • Front seat side airbag RH (Front passenger side - side squib) • Center airbag sensor
B1827/56	Center airbag sensor receives a short to ground signal in the front passenger side - side squib circuit for 0.5 seconds.	• No. 2 floor wire • No. 2 seat airbag wire • Front seat side airbag RH (Front passenger side - side squib) • Center airbag sensor
B1828/56	Center airbag sensor receives a short to B+ signal in the front passenger side - side squib circuit for 0.5 seconds.	• No. 2 floor wire • No. 2 seat airbag wire • Front seat side airbag RH (Front passenger side - side squib) • Center airbag sensor

WIRING DIAGRAM



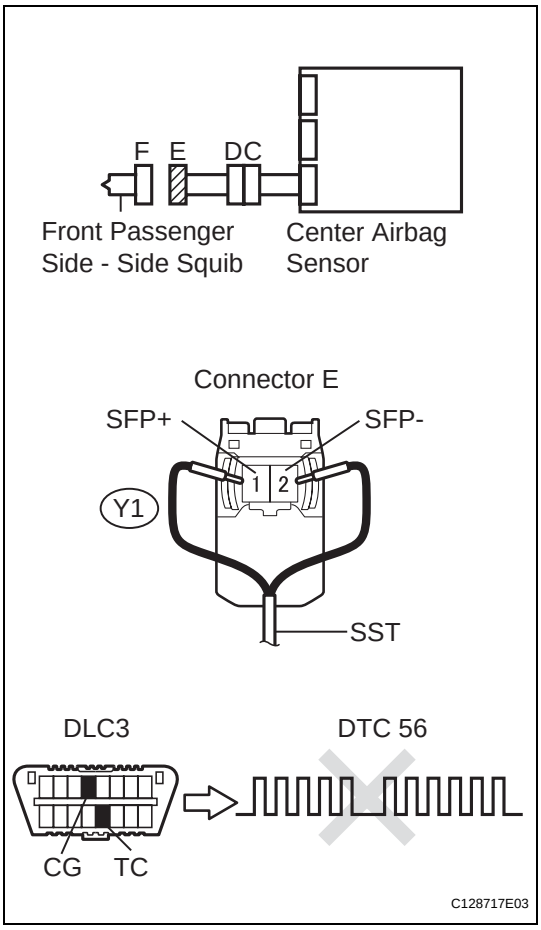
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY RH (FRONT PASSENGER SIDE - SIDE SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connector from the front seat side airbag RH.
(d) Connect the black wire side of SST to connector C.
CAUTION:
Never connect a tester to the front seat side airbag RH (front passenger side - side squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
- **Do not forcibly insert SST into the terminals of the connector when connecting.**
- **Insert SST straight into the terminals of the connector.**

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).
OK:
DTC B1825, B1826, B1827, B1828 or 56 is not output.
HINT:
DTCs other than DTC B1825, B1826, B1827, B1828 or 56 may be output at this time, but they are not related to this check.

OK → **REPLACE FRONT SEAT ASSEMBLY RH**

NG

2	CHECK CONNECTOR

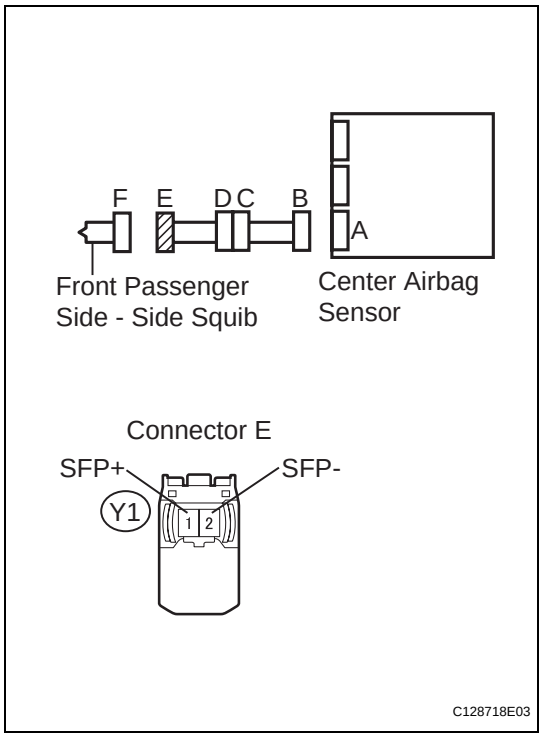
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from connector E.
(d) Check that the No. 2 seat airbag wire connectors (on the front passenger side - side squib) are not damaged.
OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

RS

NG → REPLACE FLOOR WIRE NO.2

OK

3 CHECK NO. 2 FLOOR WIRE (FRONT PASSENGER SIDE - SIDE SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
Y1-1 (SFP+) - Body ground	Below 1 V
Y1-2 (SFP-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
Y1-1 (SFP+) - Y1-2 (SFP-)	Below 1 Ω
Y1-1 (SFP+) - Body ground	1 MΩ or higher
Y1-2 (SFP-) - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.

Standard resistance

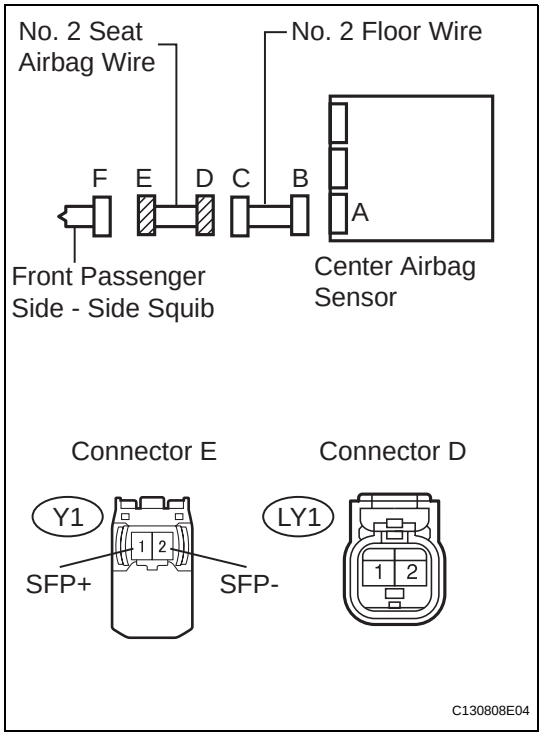
Tester Connection	Specified Condition
Y1-1 (SFP+) - Y1-2 (SFP-)	1 MΩ or higher

OK → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

NG

RS

4	CHECK NO. 2 SEAT AIRBAG WIRE



(a) Disconnect the No. 2 seat airbag wire from the No. 2 floor wire.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch OFF.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

Tester Connection	Specified Condition
Y1-1 (SFP+) - Body ground	Below 1 V
Y1-2 (SFP-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
Y1-1 (SFP+) - LY1-1	Below 1 Ω
Y1-2 (SFP-) - LY1-2	Below 1 Ω
Y1-1 (SFP+) - Y1-2 (SFP-)	1 MΩ or higher
Y1-1 (SFP+) - Body ground	1 MΩ or higher
Y1-2 (SFP-)) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE NO. 2 SEAT AIRBAG WIRE**

OK

REPAIR OR REPLACE NO. 2 FLOOR WIRE

RS

DTC	B1830/57	Short in Driver Side Curtain Shield Squib Circuit

DTC	B1831/57	Open in Driver Side Curtain Shield Squib Circuit

DTC	B1832/57	Short to GND in Driver Side Curtain Shield Squib Circuit

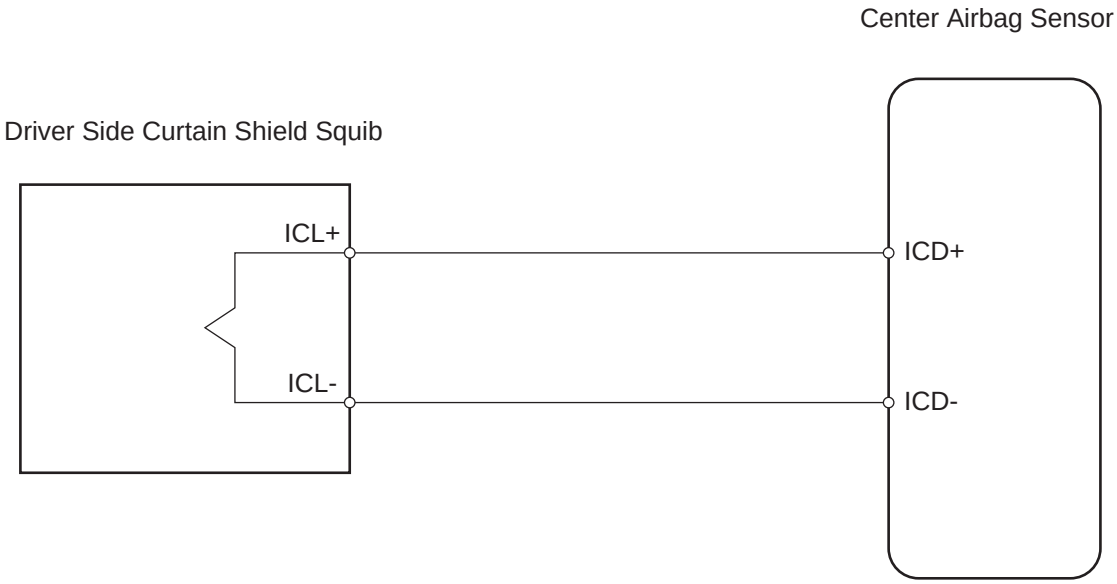
DTC	B1833/57	Short to B+ in Driver Side Curtain Shield Squib Circuit

DESCRIPTION

The driver side curtain shield squib circuit consists of the center airbag sensor and the curtain shield airbag LH.
The circuit instructs the SRS to deploy when the deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the driver side curtain shield squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1830/57	Center airbag sensor receives a line short signal 5 times in the driver side curtain shield squib circuit during primary check.	• Floor wire • Curtain shield airbag LH (Driver side curtain shield squib) • Center airbag sensor
B1831/57	Center airbag sensor receives an open signal in the driver side curtain shield squib circuit for 2 seconds.	• Floor wire • Curtain shield airbag LH (Driver side curtain shield squib) • Center airbag sensor
B1832/57	Center airbag sensor receives a short to ground signal in the driver side curtain shield squib circuit for 0.5 seconds.	• Floor wire • Curtain shield airbag LH (Driver side curtain shield squib) • Center airbag sensor
B1833/57	Center airbag sensor receives a short to B+ signal in the driver side curtain shield squib circuit for 0.5 seconds.	• Floor wire • Curtain shield airbag LH (Driver side curtain shield squib) • Center airbag sensor

WIRING DIAGRAM



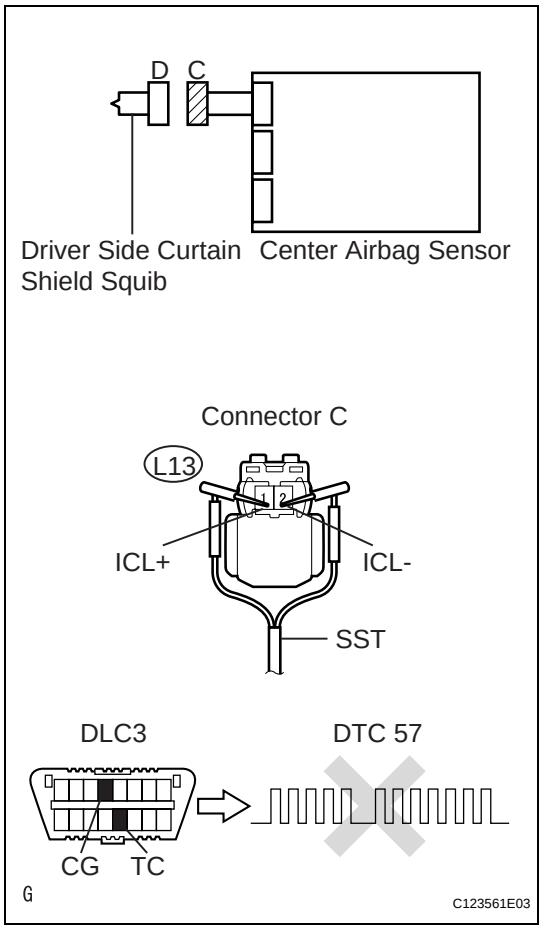
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-49).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-49).

1	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY LH (DRIVER SIDE CURTAIN SHIELD SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connector from the curtain shield airbag LH.
(d) Connect the white wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:
Never connect a tester to the curtain shield airbag LH (driver side curtain shield squib) for measurement, as this may lead to a serious injury due to airbag deployment.

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

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).

OK:
DTC B1830, B1831, B1832, B1833 or 57 is not output.

HINT:
DTCs other than DTC B1830, B1831, B1832, B1833 or 57 may be output at this time, but they are not related to this check.

OK → **REPLACE CURTAIN SHIELD AIRBAG ASSEMBLY LH**

NG

2	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from connector C.
(d) Check that the floor wire connector (on the curtain shield LH side) is not damaged.

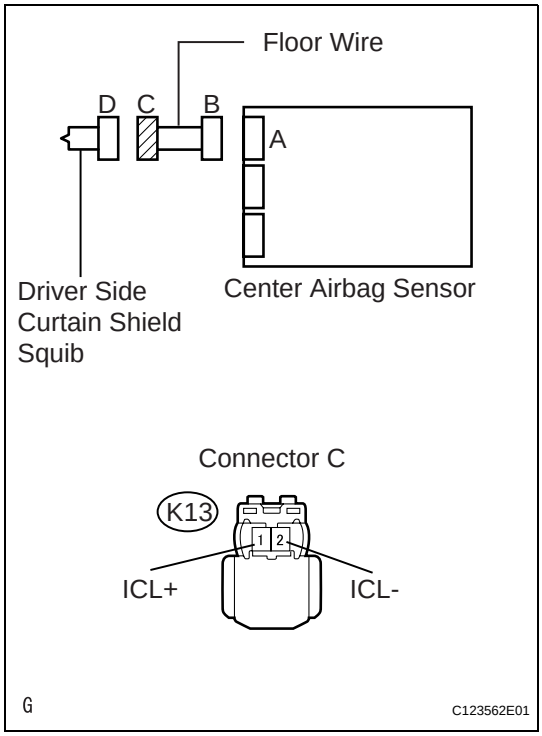
RS

OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK FLOOR WIRE (DRIVER SIDE CURTAIN SHIELD SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
K13-1 (ICL+) - Body ground	Below 1 V
K13-2 (ICL-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K13-1 (ICL+) - K13-2 (ICL-)	Below 1 Ω
K13-1 (ICL+) - Body ground	1 MΩ or higher
K13-2 (ICL-) - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K13-1 (ICL+) - K13-2 (ICL-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS

DTC	B1835/58	Short in Front Passenger Side Curtain Shield Squib Circuit

DTC	B1836/58	Open in Front Passenger Side Curtain Shield Squib Circuit

DTC	B1837/58	Short to GND in Front Passenger Side Curtain Shield Squib Circuit

DTC	B1838/58	Short to B+ in Front Passenger Side Curtain Shield Squib Circuit

DESCRIPTION

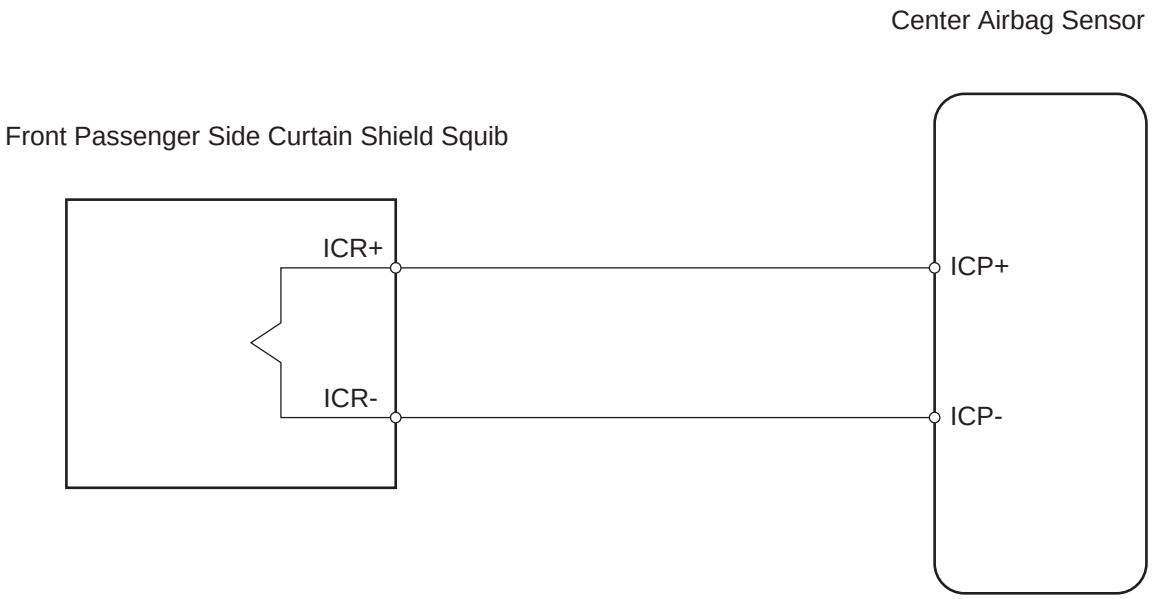
The front passenger side curtain shield squib circuit consists of the center airbag sensor and the curtain shield airbag RH.

The circuit instructs the SRS to deploy when the deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side curtain shield squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1835/58	Center airbag sensor receives a line short circuit signal 5 times in the front passenger side curtain shield squib circuit during primary check.	• No. 2 floor wire • Curtain shield airbag RH (Front passenger side curtain shield squib) • Center airbag sensor
B1836/58	Center airbag sensor receives an open signal in the front passenger side curtain shield squib circuit for 2 seconds.	• No. 2 floor wire • Curtain shield airbag RH (Front passenger side curtain shield squib) • Center airbag sensor
B1837/58	Center airbag sensor receives a short to ground signal in the front passenger side curtain shield squib circuit for 0.5 seconds.	• No. 2 floor wire • Curtain shield airbag RH (Front passenger side curtain shield squib) • Center airbag sensor
B1838/58	Center airbag sensor receives a short to B+ signal in the front passenger side curtain shield squib circuit for 0.5 seconds.	• No. 2 floor wire • Curtain shield airbag RH (Front passenger side curtain shield squib) • Center airbag sensor

WIRING DIAGRAM



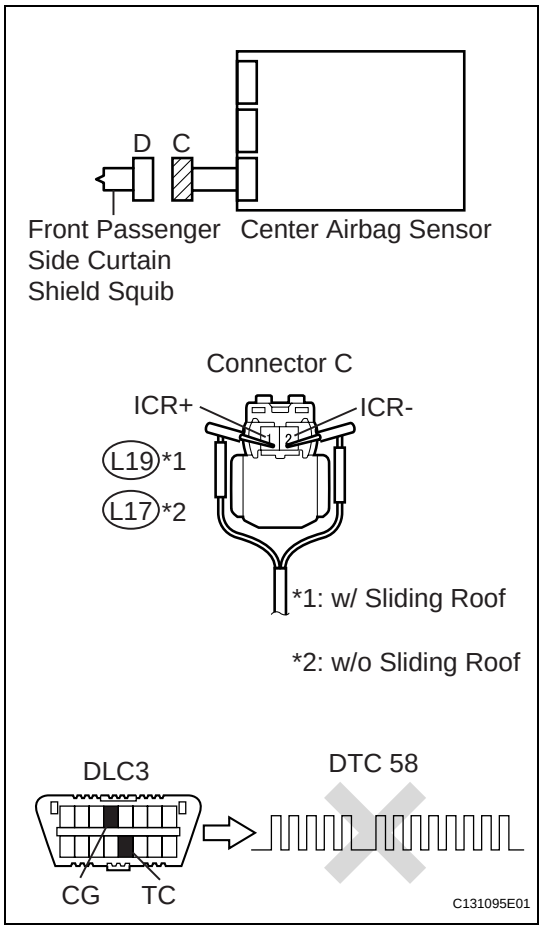
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK CURTAIN SHIELD AIRBAG ASSEMBLY RH (FRONT PASSENGER SIDE CURTAIN SHIELD SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connectors from the curtain shield airbag RH.
(d) Connect the white wire side of SST to connector C.

CAUTION:
Never connect a tester to the curtain shield airbag RH (front passenger side curtain shield squib) for measurement, as this may lead to a serious injury due to airbag deployment.

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

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).

OK:
DTC B1835, B1836, B1837, B1838 or 58 is not output.

HINT:
DTCs other than DTC B1835, B1836, B1837, B1838 or 58 may be output at this time, but they are not related to this check.

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

NG

2	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from connector C.
(d) Check that the floor wire connector (on the curtain shield airbag RH side) is not damaged.

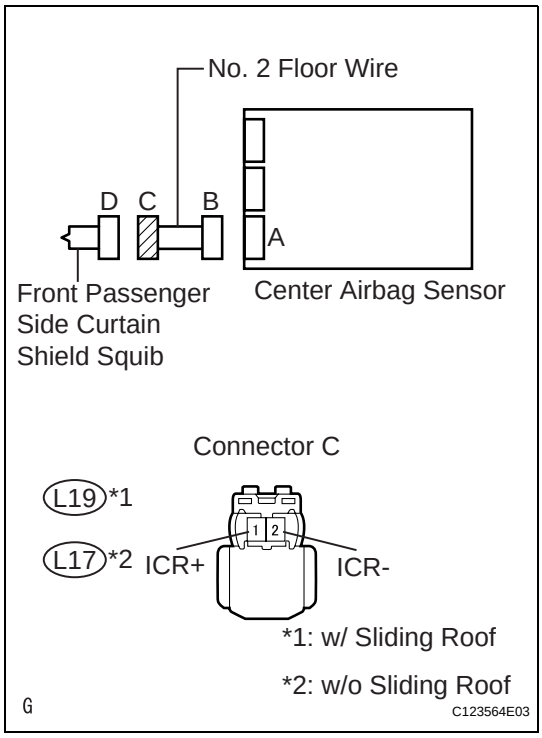
OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

RS

NG → REPAIR OR REPLACE FLOOR WIRE

OK

3	CHECK FLOOR WIRE NO.2 (FRONT PASSENGER SIDE CURTAIN SHIELD SQUIB CIRCUIT)



(a) Disconnect the connectors from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage:
w/ Sliding Roof

Tester Connection	Specified Condition
L19-1 (ICR+) - Body ground	Below 1 V
L19-2 (ICR-) - Body ground	Below 1 V

w/o Sliding Roof

Tester Connection	Specified Condition
L17-1 (ICR+) - Body ground	Below 1 V
L17-2 (ICR-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.
Standard resistance:
w/ Sliding Roof

Tester Connection	Specified Condition
L19-1 (ICR+) - L19-2 (ICR-)	Below 1 Ω
L19-1 (ICR+) - Body ground	1 MΩ or higher
L19-2 (ICR-) - Body ground	1 MΩ or higher

w/o Sliding Roof

Tester Connection	Specified Condition
L17-1 (ICR+) - L17-2 (ICR-)	Below 1 Ω
L17-1 (ICR+) - Body ground	1 MΩ or higher
L17-2 (ICR-) - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.
Standard resistance:
w/ Sliding Roof

Tester Connection	Specified Condition
L19-1 (ICR+) - L19-2 (ICR-)	1 MΩ or higher

w/o Sliding Roof

RS

Tester Connection	Specified Condition
L17-1 (ICR+) - L17-2 (ICR-)	1 MΩ or higher

NG → REPAIR OR REPLACE FLOOR WIRE

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

DTC	B1900/73	Short in Front Driver Side Pretensioner Squib Circuit

DTC	B1901/73	Open in Front Driver Side Pretensioner Squib Circuit

DTC	B1902/73	Short to GND in Front Driver Side Pretensioner Squib Circuit

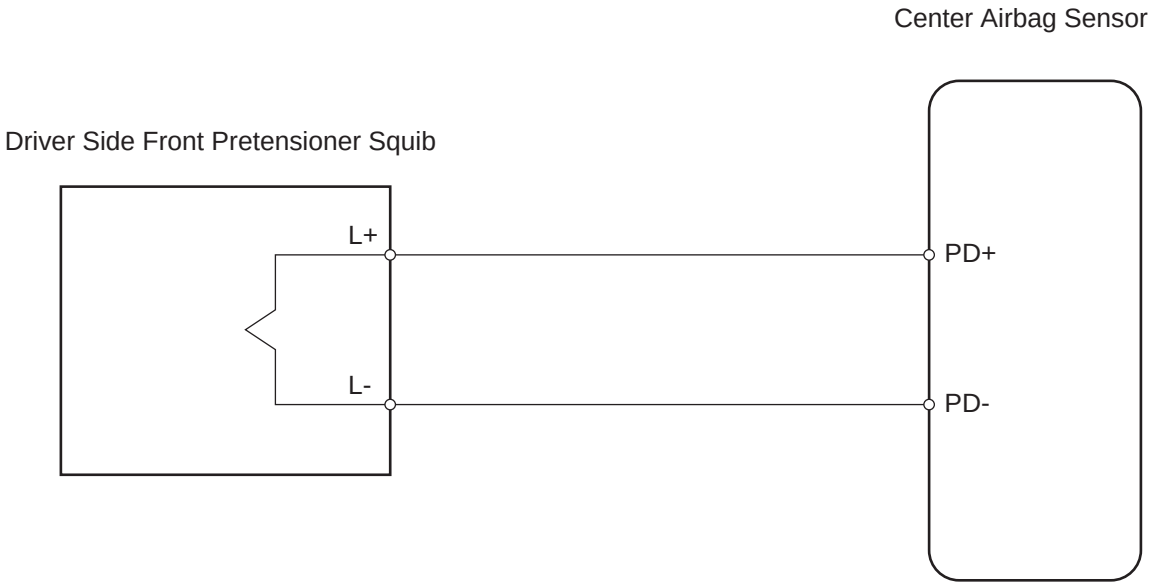
DTC	B1903/73	Short to B+ in Front Driver Side Pretensioner Squib Circuit

DESCRIPTION

The driver side front pretensioner squib circuit consists of the center airbag sensor and the front seat outer belt LH.
This circuit instructs the SRS to deploy when the deployment conditions are met.
These DTCs are recorded when a malfunction is detected in the front pretensioner squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1900/73	Center airbag sensor receives a line short signal 5 times in the driver side front pretensioner squib circuit during primary check.	• Floor wire • Front seat outer belt LH (Driver side front pretensioner squib) • Center airbag sensor
B1901/73	Center airbag sensor receives an open signal in the driver side front pretensioner squib circuit for 2 seconds.	• Floor wire • Front seat outer belt LH (Driver side front pretensioner squib) • Center airbag sensor
B1902/73	Center airbag sensor receives a short to ground signal in the driver side front pretensioner squib circuit for 0.5 seconds.	• Floor wire • Front seat outer belt LH (Driver side front pretensioner squib) • Center airbag sensor
B1903/73	Center airbag sensor receives a short circuit to B+ signal in the driver side front pretensioner squib circuit for 0.5 seconds.	• Floor wire • Front seat outer belt LH (Driver side front pretensioner squib) • Center airbag sensor

WIRING DIAGRAM



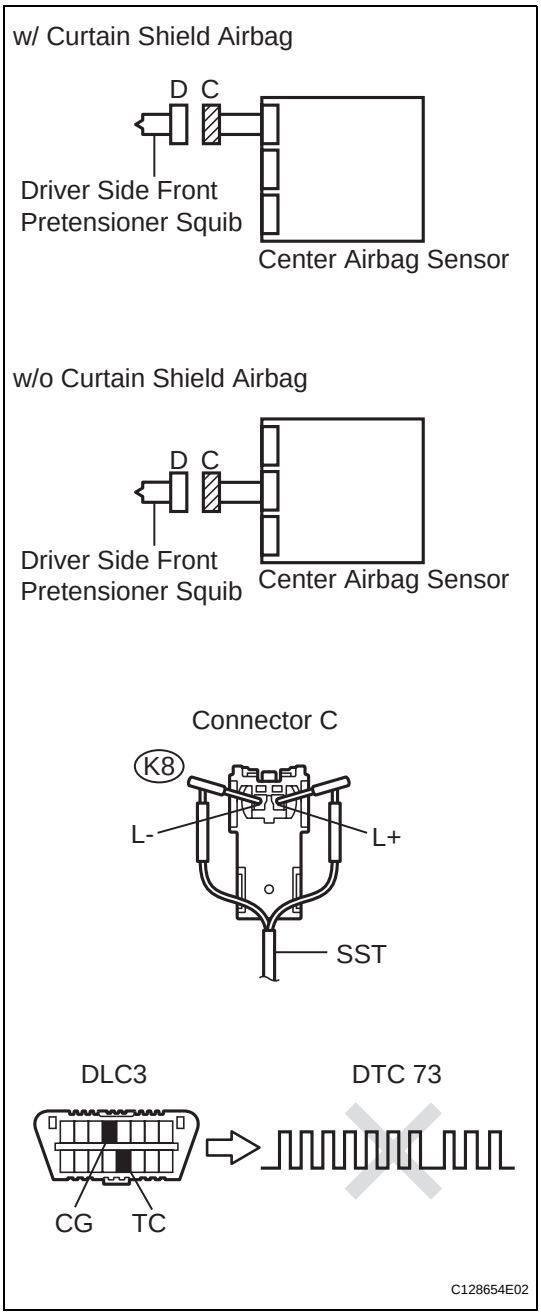
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK FRONT SEAT OUTER BELT ASSEMBLY LH (DRIVER SIDE FRONT PRETENSIONER SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt LH.
(d) Connect the white wire side of SST to connector C.
CAUTION:
Never connect a tester to the front seat outer belt LH (driver side front pretensioner squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
- **Do not forcibly insert SST into the terminals of the connector when connecting.**
- **Insert SST straight into the terminals of the connector.**

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).
OK:
DTC B1900, B1901, B1902, B1903 or 73 is not output.
HINT:
DTCs other than DTC B1900, B1901, B1902, B1903 or 73 may be output at this time, but they are not related to this check.

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

NG

2	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from connector C.
(d) Check that the floor wire connector (on the driver side front seat outer belt) is not damaged.

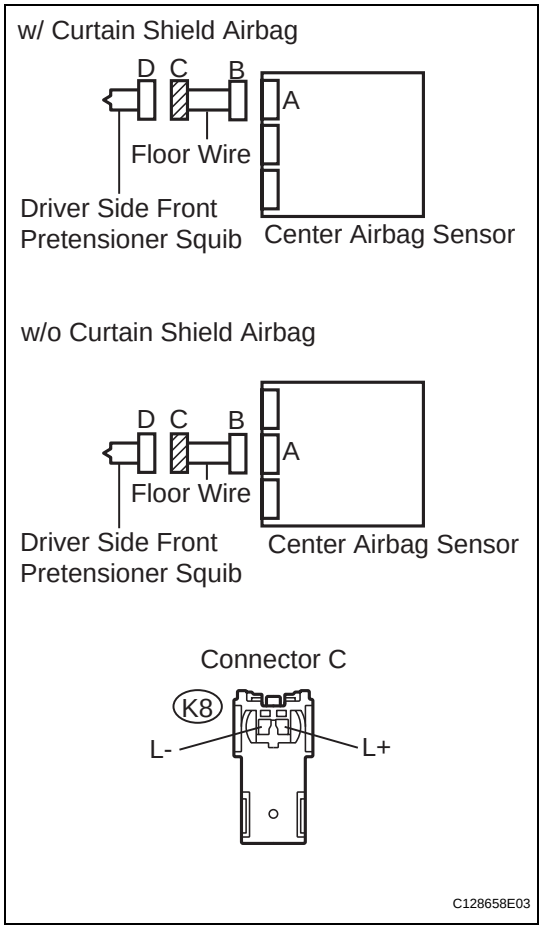
RS

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

3 CHECK FLOOR WIRE (DRIVER SIDE FRONT PRETENSIONER SQUIB CIRCUIT)



(a) Disconnect the connector from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
K8-1 (L+) - Body ground	Below 1 V
K8-2 (L-) - Body ground	Below 1 V

(e) Turn the ignition switch OFF.
(f) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(g) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K8-1 (L+) - K8-2 (L-)	Below 1 Ω
K8-1 (L+) - Body ground	1 MΩ or higher
K8-2 (L-) - Body ground	1 MΩ or higher

(h) Release the activation prevention mechanism built into connector B (see page RS-37).
(i) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
K8-1 (L+) - K8-2 (L-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

RS

DTC	B1905/74	Short in Front Passenger Side Pretensioner Squib Circuit

DTC	B1906/74	Open in Front Passenger Side Pretensioner Squib Circuit

DTC	B1907/74	Short to GND in Front Passenger Side Pretensioner Squib Circuit

DTC	B1908/74	Short to B+ in Front Passenger Side Front Pretensioner Squib Circuit

DESCRIPTION

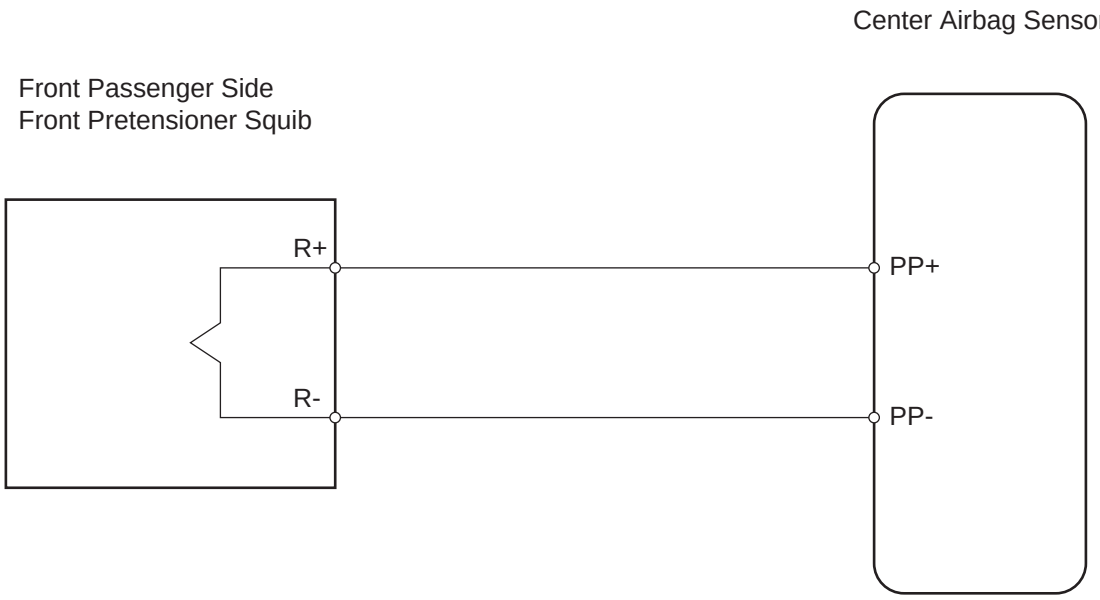
The front passenger side front pretensioner squib circuit consists of the center airbag sensor and the front seat outer belt RH.

This circuit instructs the SRS to deploy when the deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front passenger side front pretensioner squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1905/74	Center airbag sensor receives a line short signal 5 times in the front passenger side front pretensioner squib circuit during primary check.	• No. 2 floor wire • Front seat outer belt RH (Front passenger side front pretensioner squib) • Center airbag sensor
B1906/74	Center airbag sensor receives an open signal in the front passenger side front pretensioner squib circuit for 2 seconds.	• No. 2 floor wire • Front seat outer belt RH (Front passenger side front pretensioner squib) • Center airbag sensor
B1907/74	Center airbag sensor receives a short to ground signal in the front passenger side front pretensioner squib circuit for 0.5 seconds.	• No. 2 floor wire • Front seat outer belt RH (Front passenger side front pretensioner squib) • Center airbag sensor
B1908/74	Center airbag sensor receives a short to B+ signal in the front passenger side front pretensioner squib circuit for 0.5 seconds.	• No. 2 floor wire • Front seat outer belt RH (Front passenger side front pretensioner squib) • Center airbag sensor

WIRING DIAGRAM



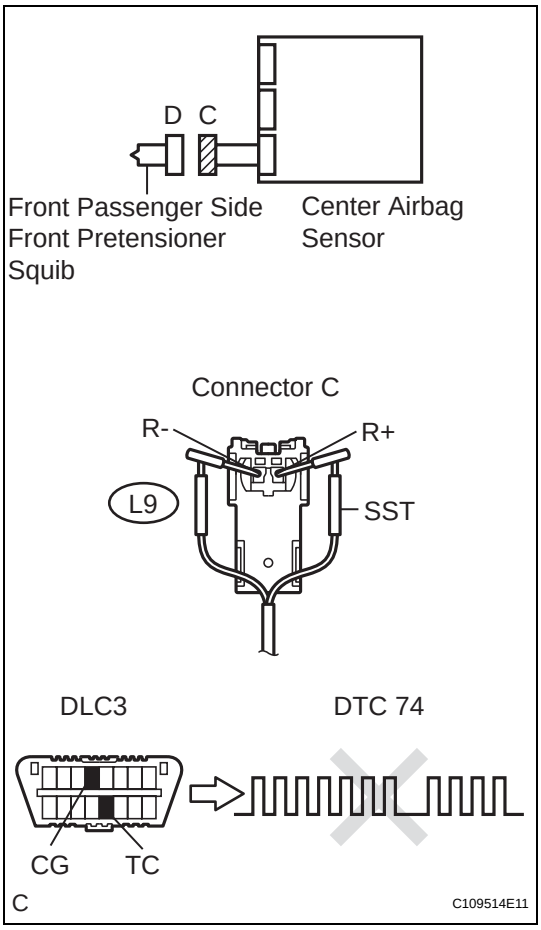
RS

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page RS-52).
- After selecting the "CHECK MODE" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page RS-52).

1	CHECK FRONT SEAT OUTER BELT ASSEMBLY RH (FRONT PASSENGER SIDE FRONT PRETENSIONER SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connectors from the front seat outer belt RH.
(d) Connect the white wire side of SST to connector C.
CAUTION:
Never connect a tester to the front seat outer belt RH (front passenger side front pretensioner squib) for measurement, as this may lead to a serious injury due to airbag deployment.
NOTICE:
- **Do not forcibly insert SST into the terminals of the connector when connecting.**
- **Insert SST straight into the terminals of the connector.**

SST 09843-18060

(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).
OK:
DTC B1905, B1906, B1907, B1908 or 74 is not output.
HINT:
DTCs other than DTC B1905, B1906, B1907, B1908 or 74 may be output at this time, but they are not related to this check.

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

NG

2	CHECK CONNECTOR

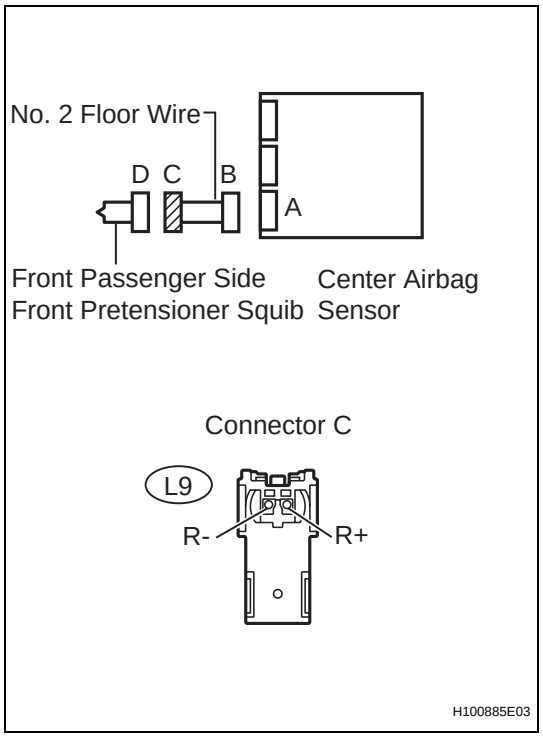
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from connector C.
(d) Check that the floor wire connector (on the front seat outer belt RH side) is not damaged.
OK:
Lock button is not disengaged, or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

RS

NG → REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

3	CHECK FLOOR WIRE (FRONT PASSENGER SIDE FRONT PRETENSIONER SQUIB CIRCUIT)



(a) Disconnect the connectors from the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
L9-1 (R+) - Body ground	Below 1 V
L9-2 (R-) - Body ground	Below 1 V

(d) Turn the ignition switch OFF.
(e) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(f) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
L9-1 (R+) - L9-2 (R-)	Below 1 Ω
L9-1 (R+) - Body ground	1 MΩ or higher
L9-2 (R-) - Body ground	1 MΩ or higher

(g) Release the activation prevention mechanism built into connector B (see page RS-37).
(h) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
L9-1 (R+) - L9-2 (R-)	1 MΩ or higher

NG → REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

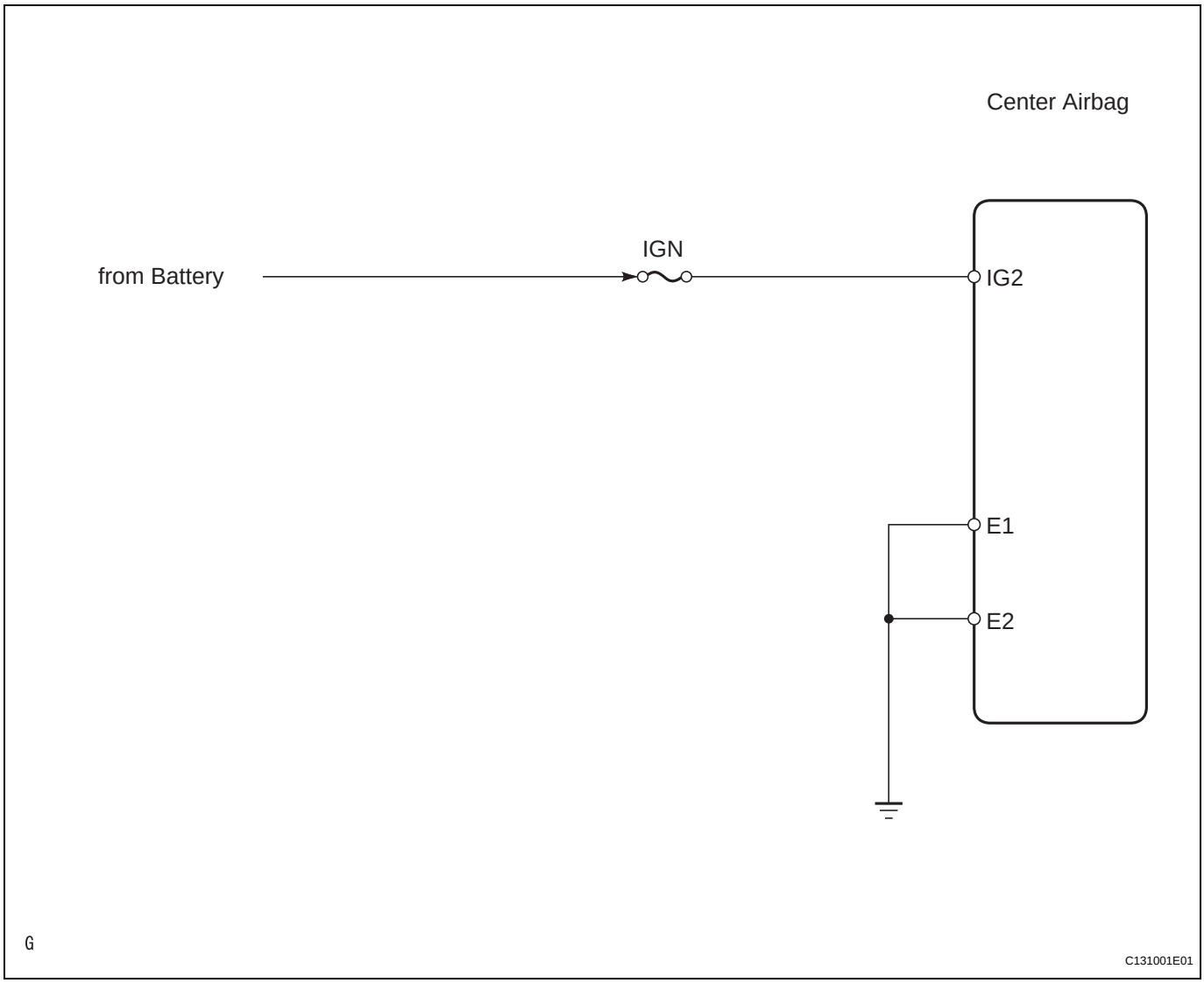
RS

Source Voltage Drop

DESCRIPTION

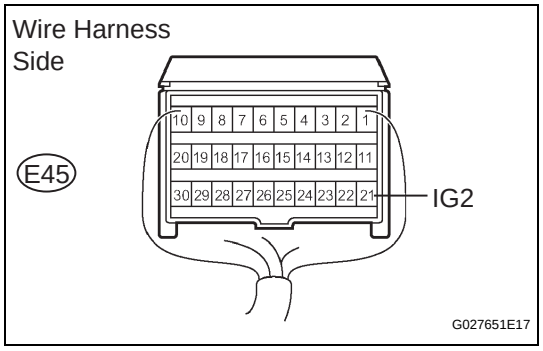
The SRS is equipped with a voltage-increase circuit (DC-DC converter) in the center airbag sensor in case the source voltage drops.
When the source voltage drops, the voltage-increase circuit (DC-DC converter) functions to increase the voltage of the SRS to a normal working level.
A malfunction in this circuit is displayed differently from other codes, in the fact that 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.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK WIRE HARNESS (CENTER AIRBAG SENSOR ASSEMBLY - BATTERY)



(a) Turn the ignition switch OFF.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the E45 connector from the center airbag sensor .
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Measure the voltage of the wire harness side connectors.

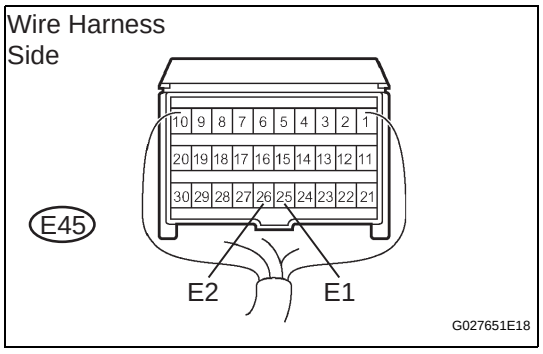
Standard voltage

Tester Connection	Specified Condition
E45-21 (IG2) - Body ground	11 to 14 V

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR, CHARGING SYSTEM AND BATTERY**

OK

2 CHECK WIRE HARNESS (CENTER AIRBAG SENSOR ASSEMBLY - BODY GROUND)



(a) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
E45-25 (E1) - Body ground	Below 1 Ω
E45-26 (E2) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

3 CHECK SRS WARNING LIGHT

(a) Turn the ignition switch OFF.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the E45 center airbag sensor connector.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch ON, and wait for at least 6 seconds.
(f) Operate all components of the electrical system (defogger, wiper, headlight, heater, blower, etc.) and check that the SRS warning light does not come on.

RS

OK:
SRS warning light does not come on.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

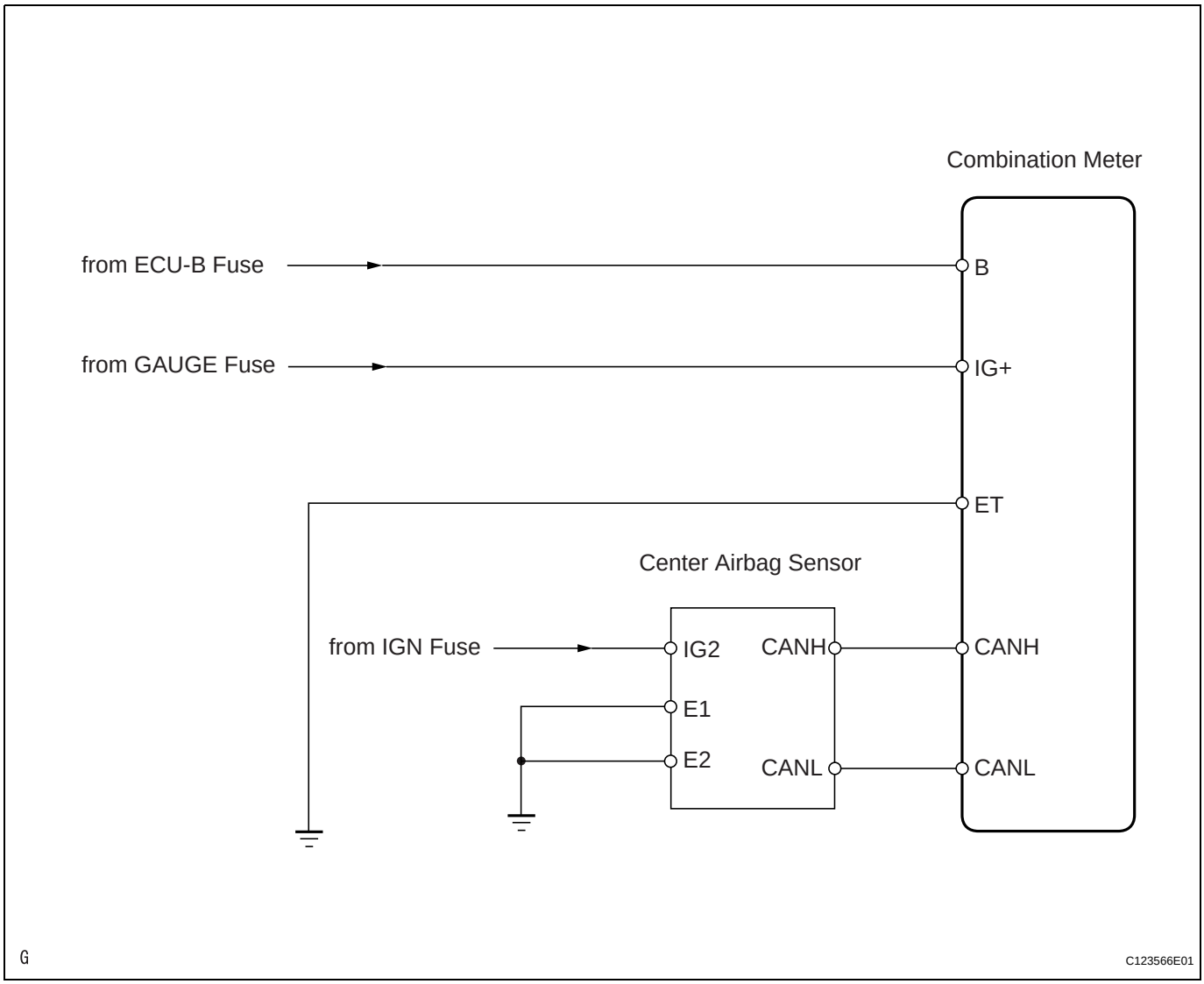
END

SRS Warning Light Remains 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 OFF to ON, 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.
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 not recorded in the center airbag sensor . The SRS warning light automatically goes off when the source voltage returns to normal.
The signal to illuminate the SRS warning light is transmitted from the center airbag sensor to the combination meter through the multiplex communication system.

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK BATTERY

(a) Measure the voltage of the battery.
Standard voltage:
11 to 14 V

NG → **CHECK AND REPLACE BATTERY OR CHARGING SYSTEM**

OK

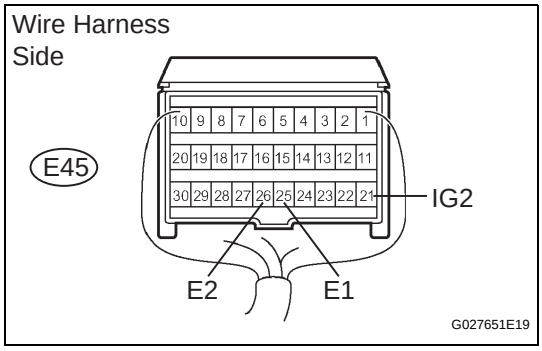
2	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(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 combination meter.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

3	CHECK WIRE HARNESS (SOURCE VOLTAGE OF CENTER AIRBAG SENSOR ASSEMBLY)



(a) Disconnect the E45 connector from 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 ON.
(d) Operate all components of the electrical system (defogger, wipers, headlight, heater blower, etc.).
(e) Measure the voltage of the wire harness side connectors.
Standard voltage

Tester Connection	Specified Condition
E45-21 (IG2) - Body ground	10 to 14 V

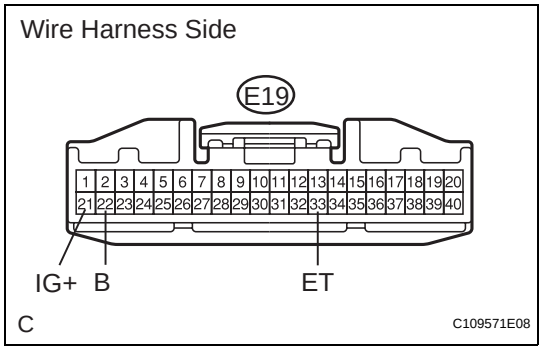
(f) Turn the ignition switch OFF.
(g) Measure the resistance of the wire harness side connectors.
Standard resistance

Tester Connection	Specified Condition
E45-25 (E1) - Body ground	Below 1 Ω
E45-26 (E2) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

4	CHECK WIRE HARNESS (SOURCE VOLTAGE OF COMBINATION METER)



(a) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(b) Disconnect the E19 connector from the combination meter.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch ON.
(e) Measure the voltage of the wire harness side connectors.

Standard voltage

Tester Connection	Condition	Specified Condition
E19-21 (IG+) - Body ground	Ignition switch ON	10 to 14 V
E19-22 (B) - Body ground	Always	10 to 14 V

(f) Turn the ignition switch OFF.
(g) Measure the resistance of the wire harness side connectors.

Standard resistance

Tester Connection	Specified Condition
E19-33 (ET) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

5	CHECK SRS WARNING LIGHT

(a) Turn the ignition switch OFF.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the E19 connector to the combination meter.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Check the SRS warning light condition.

OK:

After the primary check period, SRS warning light goes off for approximately 10 seconds, and turning it on is continued.

HINT:
The primary check period shows approximately 6 seconds after the ignition switch is ON.

NG → **GO TO COMBINATION METER SYSTEM**

RS

OK

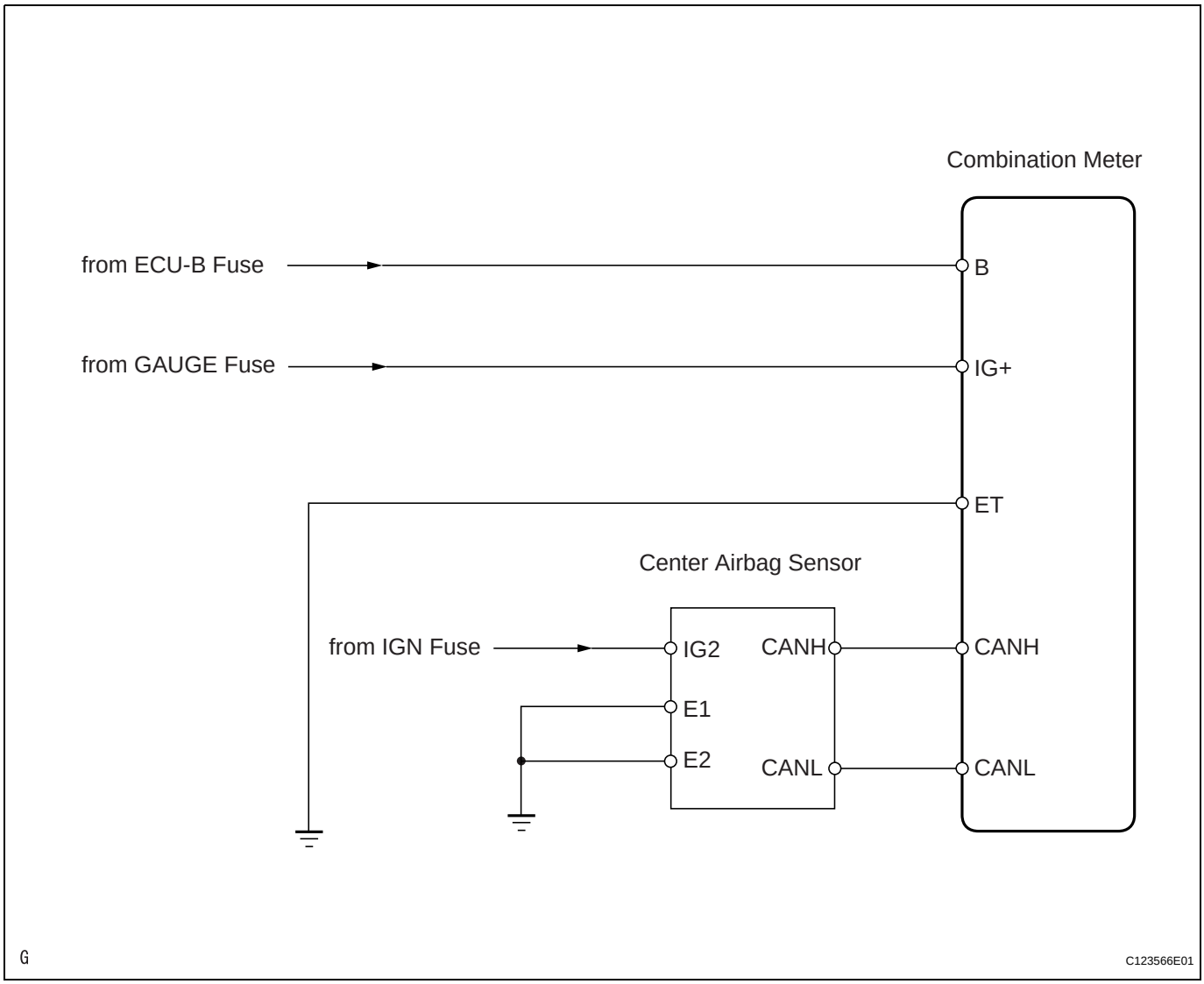
REPLACE CENTER AIRBAG SENSOR ASSEMBLY

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 OFF to ON, 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.
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 not recorded in the center airbag sensor . The SRS warning light automatically goes off when the source voltage returns to normal.
The signal to illuminate the SRS warning light is transmitted from the center airbag sensor to the combination meter through the multiplex communication system.

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1	CHECK BATTERY

(a) Measure the voltage of the battery.
Standard voltage:
11 to 14 V

NG → **CHECK AND REPLACE BATTERY OR CHARGING SYSTEM**

OK

2	CHECK CONNECTORS

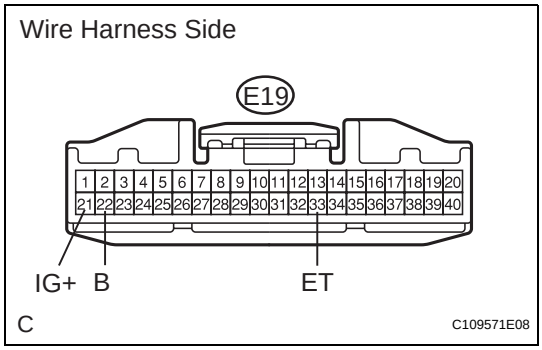
(a) Turn the ignition switch OFF.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check that the E19 connectors are properly connected to the center airbag sensor and the combination meter.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTORS, THEN GO TO STEP 1**

OK

3	CHECK WIRE HARNESS (SOURCE VOLTAGE OF COMBINATION METER)

RS



(a) Turn the ignition switch OFF.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Disconnect the connector from the combination meter.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Measure the voltage of the wire harness side connectors.
Standard voltage

Tester Connection	Condition	Specified Condition
E19-21 (IG+) - Body ground	Ignition switch ON	10 to 14 V
E19-22 (B) - Body ground	Always	10 to 14 V

(g) Turn the ignition switch OFF.
(h) Measure the resistance of the wire harness side connectors.
Standard resistance

Tester Connection	Specified Condition
E19-33 (ES) - Body ground	Below 1 Ω

NG → REPAIR OR REPLACE WIRE HARNESS

OK

4	CHECK SRS WARNING LIGHT

(a) Turn the ignition switch OFF.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Connect the E19 connector to the combination meter.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Check the SRS warning light condition.
OK:
The SRS warning light does not come on.

NG → GO TO COMBINATION METER SYSTEM

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

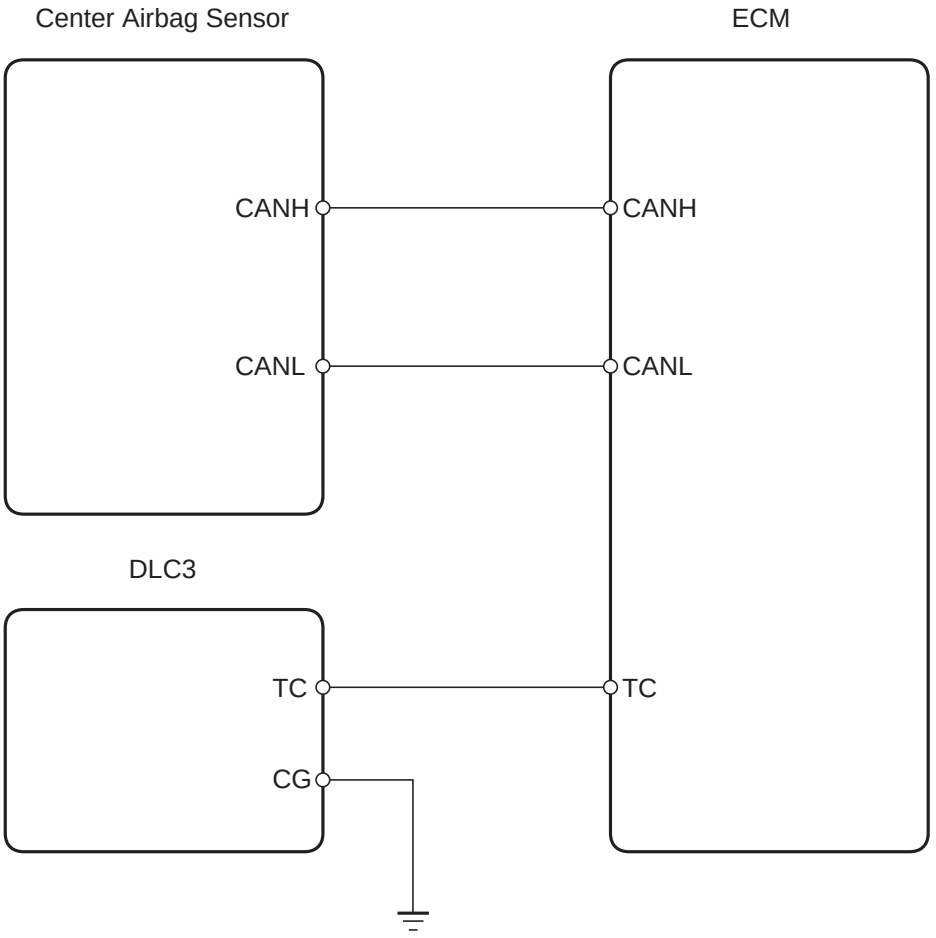
TC and CG Terminal Circuit

DESCRIPTION

DTC output mode is set by connecting terminals TC and CG of the DLC3.
The DTCs are displayed by blinking the SRS warning light.
HINT:

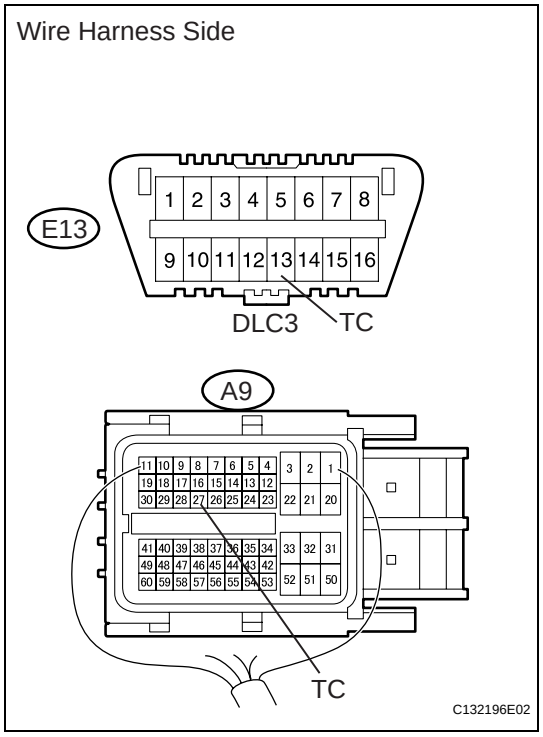
- Make sure that DTC B1281 has not been output. If DTC B1281 has been output, refer to the multiplex communication system.
- When each warning light keeps blinking, a ground short in the wiring of terminal TC of the DLC3 or an internal ground short in each ECU is suspected.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK WIRE HARNESS (DLC3 - ECM)



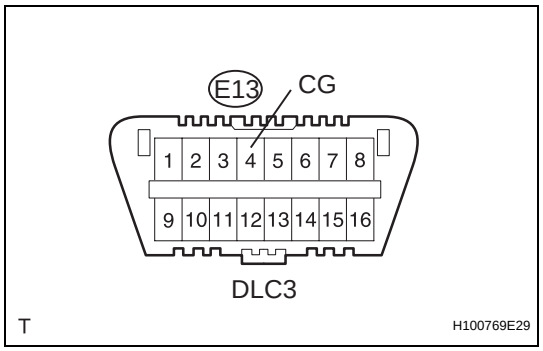
(a) Turn the ignition switch OFF.
(b) Disconnect the A9 connectors from the center airbag sensor .
(c) Measure the resistance of the wire harness side connectors.
Standard resistance

Tester Connection	Specified Condition
E13-13 (TC) - A9-27 (TC)	Below 1 Ω

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

2 CHECK WIRE HARNESS (CG OF DLC3 - BODY GROUND)



(a) Measure the resistance of the wire harness side connectors.
Standard resistance

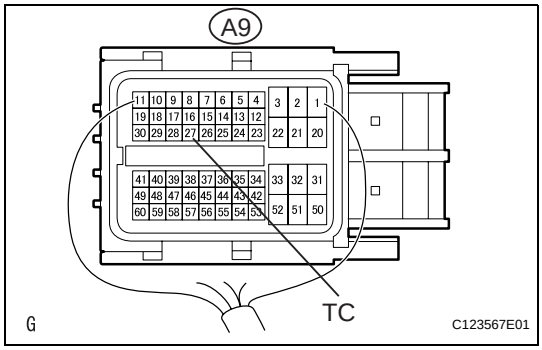
Tester connection	Specified condition
E13-4 (CG) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

RS

3	CHECK WIRE HARNESS (TC OF ECM)



(a) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
A9-3 (TC) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

4	REPLACE ECM

(a) Replace the ECM.
(b) Check the DTC of the ECM (see page ES-35).

Result

Result	Proceed to
DTC output mode is set (except center airbag sensor).	A
Normal system code is output.	B
DTC is output.	C

B → **END**

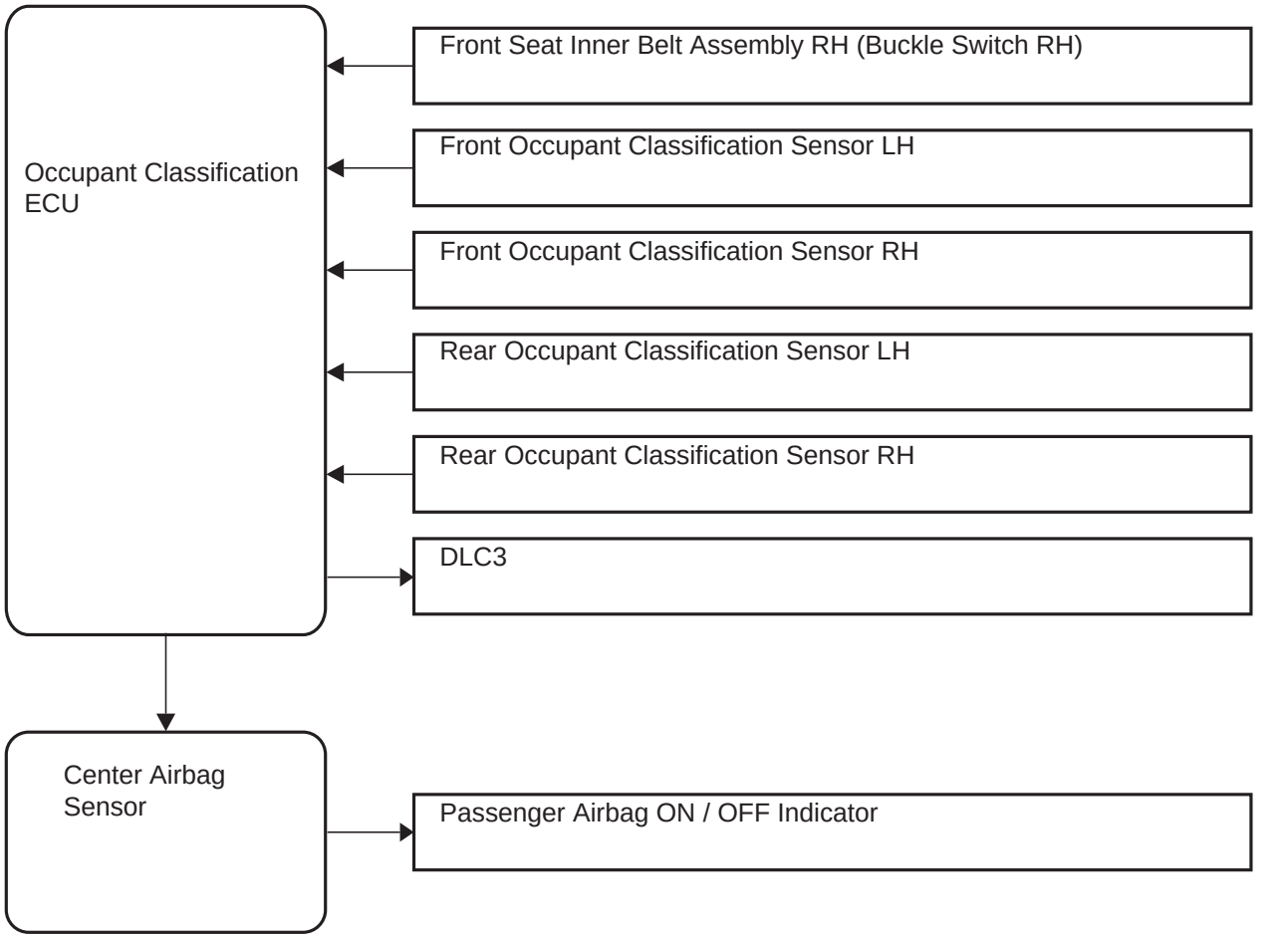
C → **GO TO INSPECTION PROCEDURE OF DTC OUTPUT**

A

REPAIR OR REPLACE WIRE HARNESS OR EACH ECU

RS

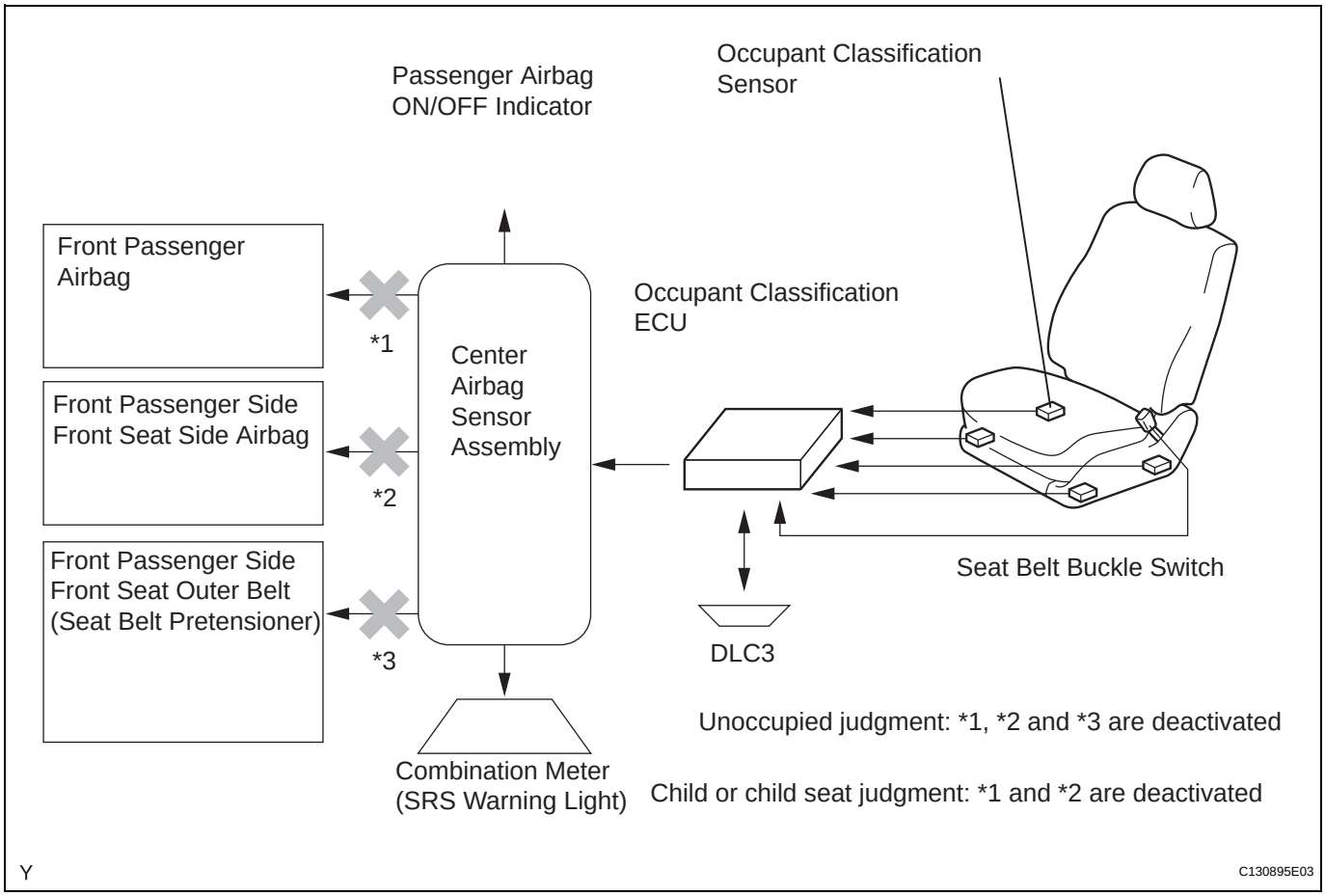
SYSTEM DIAGRAM



SYSTEM DESCRIPTION

1. GENERAL

(a) The front passenger occupant classification system judges whether the front passenger seat is occupied or not in accordance with the seat belt buckle status; and whether the seat is occupied by an adult or child (with child seat) in accordance with the load that is applied to the front passenger seat. Thus, when appropriate, it restricts the deployment of the front passenger airbag, front passenger side airbag, and the front passenger seat belt pretensioner. In addition, the system informs the driver of the result of the judgment through the use of the airbag ON/OFF indicator.



2. MAIN COMPONENTS

Component	Description
Occupant Classification Sensor	Outputs voltages to occupant classification ECU in accordance with load applied to sensor
Occupant Classification ECU	Constantly monitors weight of front passenger seat load, and judges occupancy condition in accordance with signals from occupant classification sensors and seat belt buckle switch
Passenger Airbag ON/OFF Indicator	Passenger airbag ON indicator illuminates when front passenger and front passenger side airbags activated. Airbag OFF indicator illuminates when front passenger and front passenger side airbags deactivated.
Seat Belt Buckle Switch	Detects whether seat belt is fastened and outputs appropriate signals to occupant classification ECU

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use the following procedures to troubleshoot the occupant classification system.
- *: Use the intelligent tester.

1	VEHICLE BROUGHT TO WORKSHOP

NEXT

2	PASSENGER AIRBAG ON/OFF INDICATOR CHECK

NEXT

3	DTC CHECK (Present and Past DTC)*

(a) Check for DTCs (see page RS-249).

Result

Result	Proceed to
DTC is output.	A
DTC is not output.	B

B → GO TO PROBLEM SYMPTOMS TABLE

A

RS

4	DTC CHART

NEXT

5	REPAIR OR REPLACEMENT

NEXT

6	DTC CLEARANCE (Present and Past DTCs)*

(a) Clear the DTCs (see page RS-249).

NEXT

7	DTC CHECK (Present and Past DTCs)*

(a) Check for DTCs (see page RS-249).

Result

Result	Proceed to
DTC is not output.	A
DTC is output.	B

B → Go to step 5

A

8 PROBLEM SYMPTOMS SIMULATION

(a) Check the passenger airbag ON/OFF indicator condition (see page RS-246).

Result

Result	Proceed to
Passenger airbag ON/OFF indicator is operating normally.	A
Passenger airbag ON/OFF indicator (OFF) is not operating normally.	B

B → Go to step 5

A

9 CONFIRMATION TEST

NEXT

END

INITIALIZATION

1. ZERO POINT CALIBRATION

NOTICE:

Make sure that the front passenger seat is not occupied before performing the operation.

HINT:

Perform the zero point calibration and sensitivity check if any of the following conditions apply.

- The occupant classification ECU is replaced.
- Accessories (seat cover etc.) are installed.
- The front passenger seat is removed from the vehicle.
- The passenger airbag ON/OFF indicator (OFF) comes on when the front passenger seat is not occupied.
- The vehicle is brought to the workshop for repair due to an accident or a collision.

(a) Zero point calibration and sensitivity check procedures:

HINT:

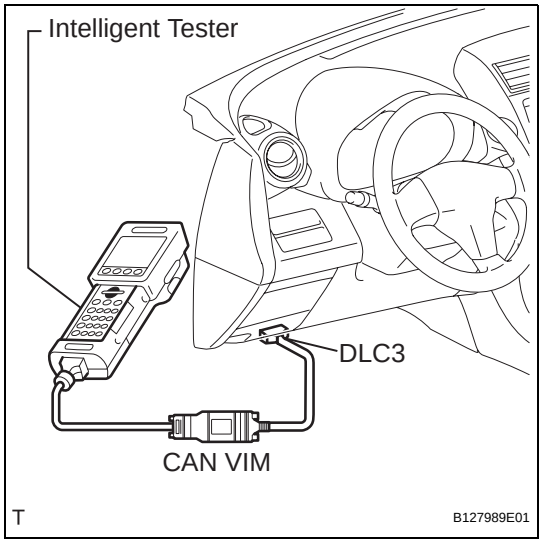
Make sure that the zero point calibration has finished normally, and then perform the sensitivity check.

(1) Adjust the seat position in accordance with the table below.

Adjustment Item	Position
Slide Direction	Rearmost position
Reclining Angle	Upright position
Headrest Height	Lowest position
Lifter Height	Lowest position

(2) Connect the intelligent tester (with CAN VIM) to the DLC3.

(3) Turn the ignition switch ON.

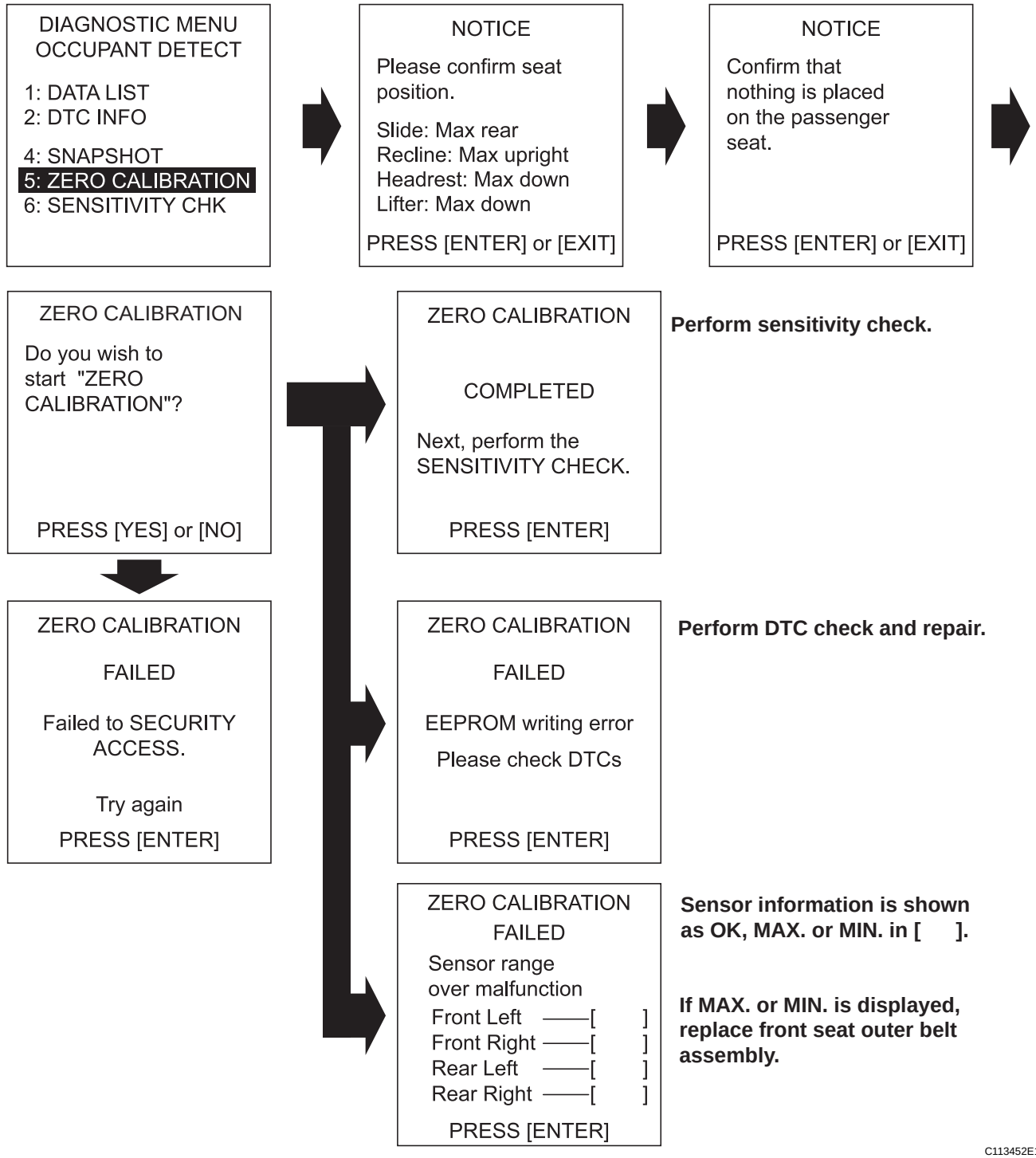


RS

(4) Perform the zero point calibration by following the prompts on the tester screen.

ZERO POINT CALIBRATION PROCEDURE

1: DIAGNOSIS - 1: OBD/MOBD - MODEL YEAR - MODEL SELECTION - 9: OCCUPANT DETECT
Refer to the following screen flowchart.



HINT:
Refer to the intelligent tester operator's manual for further details.

RS

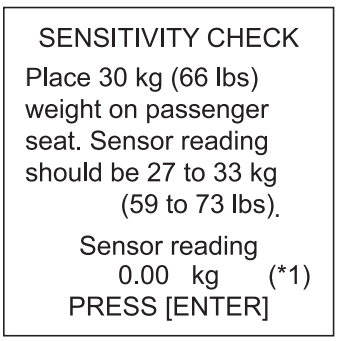
OK:
COMPLETED is displayed.

(5) Perform the sensitivity check by following the prompts on the tester screen.
(6) Confirm that the beginning sensor reading is within the standard range.
Standard range:
-3.2 to 3.2 kg (-7 to 7 lb)
(7) Place a 30 kg (66.14 lb) weight (e.g. a lead mass) onto the front passenger seat.
(8) Confirm that the sensitivity is within the standard range.

SENSITIVITY CHECK PROCEDURE

1: DIAGNOSIS ⟶ 1: OBD/MOBD ⟶ MODEL YEAR ⟶ MODEL SELECTION ⟶ 9: OCCUPANT DETECT





*1: The unit can be changed by entering the following menu items on an intelligent tester.

[Unit Selection Screen]

1: DIAGNOSIS ⟶ 9: SETUP ⟶ 4: UNIT CONVERSION

⟶ WEIGHT (kg = lbs)

C

C130896E02

Standard range:
27 to 33 kg (59.52 to 72.75 lb)

HINT:

- When performing the sensitivity check, use a solid metal weight (the check result may not be accurate if a liquid weight is used).

- If the sensitivity deviates from the standard range, retighten the bolts of the front passenger seat taking care not to deform the seat rail. After performing this procedure, if the sensitivity is not within the standard range, replace the front seat assembly RH.
- If the zero point calibration has not finished normally, replace the front seat assembly RH.

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.

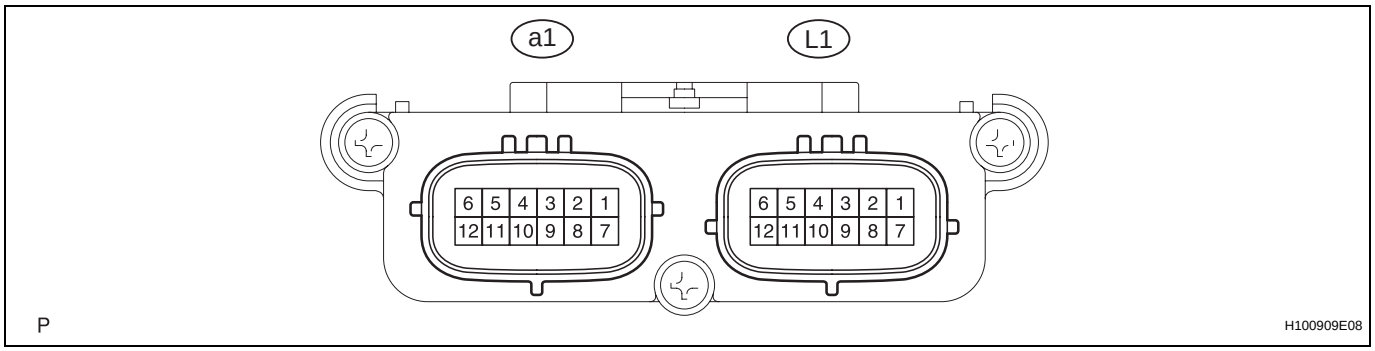
Occupant classification ECU

Symptom	Suspected area	See page
The front passenger seat condition differs from the indication of the passenger airbag ON/OFF indicator (DTC is not output).	Trouble in Passenger Airbag ON/OFF Indicator	RS-328

TERMINALS OF ECU

1. CHECK OCCUPANT CLASSIFICATION ECU

(a) Measure the voltage of the connector.



Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
+B (L1-1) - GND (L1-3)	R - W - B	+B power source	Always	10 to 14 V
DIA (L1-2) - GND (L1-3)	W - W - B	Diagnosis (DLC3)	Ignition switch ON	Pulse generation
GND (L1-3) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
FSR- (L1-4) - GND (L1-3)	O - W - B	Center airbag sensor communication line	Always	Below 1 Ω
BGND (L1-5) - GND (L1-3)	BR - W - B	Passenger side buckle switch ground line	Always	Below 1 Ω
IG (L1-7) - GND (L1-3)	B - W - B	IG power source	Ignition switch ON	10 to 14 V
FSR+ (L1-8) - FSR- (L1-4)	V - O	Center airbag sensor communication line	Ignition switch ON	Pulse generation
BSW (L1-9) - BGND (L1-5)	GR - BR	Passenger side buckle switch line	Buckle switch ON Buckle switch OFF	Pulse generation
SGD1 (a1-1) - GND (L1-3)	G - W-B	Front occupant classification sensor LH ground line	Always	Below 1 Ω
SGD2 (a1-2) - GND (L1-3)	O - W-B	Front occupant classification sensor RH ground line	Always	Below 1 Ω
SGD3 (a1-3) - GND (L1-3)	W - W-B	Rear occupant classification sensor LH ground line	Always	Below 1 Ω
SGD4 (a1-4) - GND (L1-3)	BR - W-B	Rear occupant classification sensor RH ground line	Always	Below 1 Ω
SVC1 (a1-11) - SGD1 (a1-1)	R - G	Front occupant classification sensor LH power supply line	Ignition switch ON, a load is applied to front occupant classification sensor LH	4.5 to 5.1 V
SVC2 (a1-12) - SGD2 (a1-2)	W - O	Front occupant classification sensor RH power supply line	Ignition switch ON, a load is applied to front occupant classification sensor RH	4.5 to 5.1 V
SVC3 (a1-5) - SGD3 (a1-3)	GR - W	Rear occupant classification sensor LH power supply line	Ignition switch ON, a load is applied to rear occupant classification sensor LH	4.5 to 5.1 V
SVC4 (a1-6) - SGD4 (a1-4)	V - BR	Rear occupant classification sensor RH power supply line	Ignition switch ON, a load is applied to rear occupant classification sensor RH	4.5 to 5.1 V
SIG1 (a1-7) - SGD1 (a1-1)	SB - G	Front occupant classification sensor LH signal line	Ignition switch ON, a load is applied to front occupant classification sensor LH	0.2 to 4.7 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SIG2 (a1-8) - SGD2 (a1-2)	L - O	Front occupant classification sensor RH signal line	Ignition switch ON, a load is applied to front occupant classification sensor RH	0.2 to 4.7 V
SIG3 (a1-9) - SGD3 (a1-3)	Y - W	Rear occupant classification sensor LH signal line	Ignition switch ON, a load is applied to rear occupant classification sensor LH	0.2 to 4.7 V
SIG4 (a1-10) - SGD4 (a1-4)	R - BR	Rear occupant classification sensor RH signal line	Ignition switch ON, a load is applied to rear occupant classification sensor RH	0.2 to 4.7 V

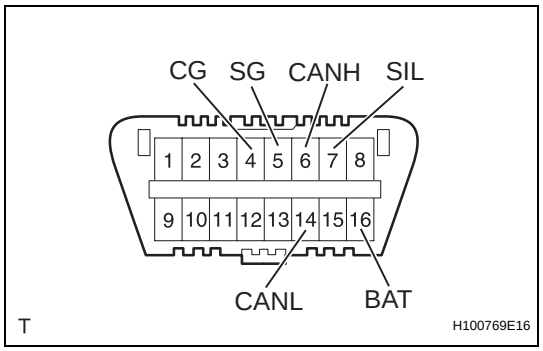
DIAGNOSIS SYSTEM

1. DESCRIPTION

The occupant classification ECU controls the functions of the occupant classification system on the vehicle. Data of the occupant classification system can be read in the Data Link Connector 3 (DLC3) of the vehicle. When the system seems to be malfunctioning, use the intelligent tester to check for a malfunction and perform repairs.

2. CHECK DLC3

The ECU uses ISO 15765-4 for communication. The terminal arrangement of the DLC3 complies with ISO 15031-3 and matches the ISO 15765-4 format.



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
CANH (6) - CANL (14)	HIGH-level CAN bus line	Ignition switch OFF*	54 to 69 Ω
CANH (6) - Battery positive	HIGH-level CAN bus line	Ignition switch OFF*	1 MΩ or higher
CANH (6) - CG (4)	HIGH-level CAN bus line	Ignition switch OFF*	200 Ω or higher
CANL (14) - Battery positive	LOW-level CAN bus line	Ignition switch OFF*	1 MΩ or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Ignition switch OFF*	200 Ω or higher

NOTICE:

***: Before measuring the resistance, leave the vehicle as is for at least 1 minute and do not operate the ignition switch, any switches or doors.**

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

HINT:

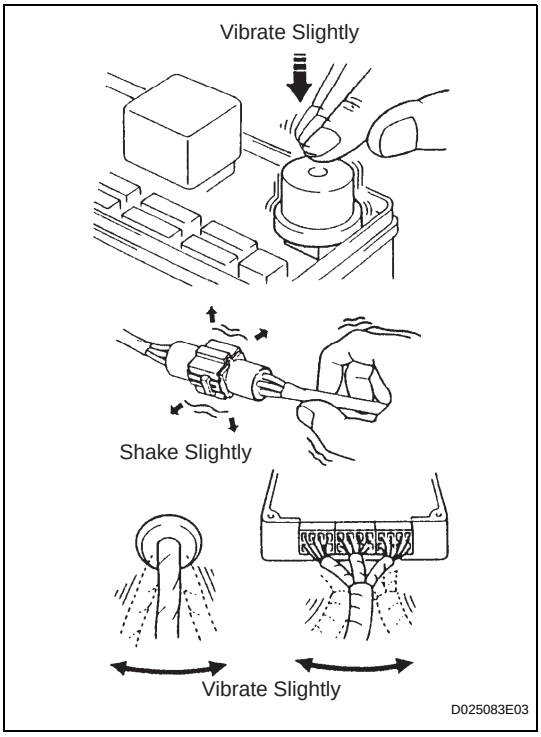
Connect the cable of the intelligent tester (with CAN VIM) to the DLC3, turn the ignition switch ON and attempt to use the tester. If the display indicates that a communication error has occurred, there is a problem either with the vehicle or with the tester.

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

3. SYMPTOM SIMULATION

HINT:

The most difficult case in troubleshooting is when no symptoms occur. In such cases, a thorough customer problem analysis must be carried out. A simulation of the same or similar conditions and environment in which the problem occurred in the customer's vehicle should be carried out. No matter how much skill or experience a technician has, troubleshooting without confirming the problem symptoms will lead to important repairs being overlooked and mistakes or delays.



(a) Vibration method:

When vibration seems to be the major cause.

HINT:

Perform the simulation method only during the primary check period (for approximately 6 seconds after the ignition switch is turned ON).

(1) Slightly vibrate the part of the sensor considered to be the cause of the problem with your fingers and check whether the malfunction occurs.

HINT:

Shaking the relays too strongly may result in open relays.

(2) Slightly shake the connector vertically and horizontally.

(3) Slightly shake the wire harness vertically and horizontally.

The connector joint and fulcrum of the vibration are the major areas to be checked thoroughly.

(b) Simulation method for DTC B1795:

Turn the ignition switch from the LOCK to the ON position, hold the position for 10 seconds, and then turn it back to the LOCK position again 50 times in a row.

HINT:

DTC B1795 is output if the occupant classification ECU receives the ignition switch LOCK-ON-LOCK signal 50 times in a row when a malfunction occurs in the power circuit for the occupant classification system.

4. FUNCTION OF PASSENGER AIRBAG ON/OFF INDICATOR

(a) Initial check

(1) Turn the ignition switch ON.

(2) The passenger airbag ON/OFF indicator (ON and OFF) comes on for approximately 4 seconds, then goes off for approximately 2 seconds.

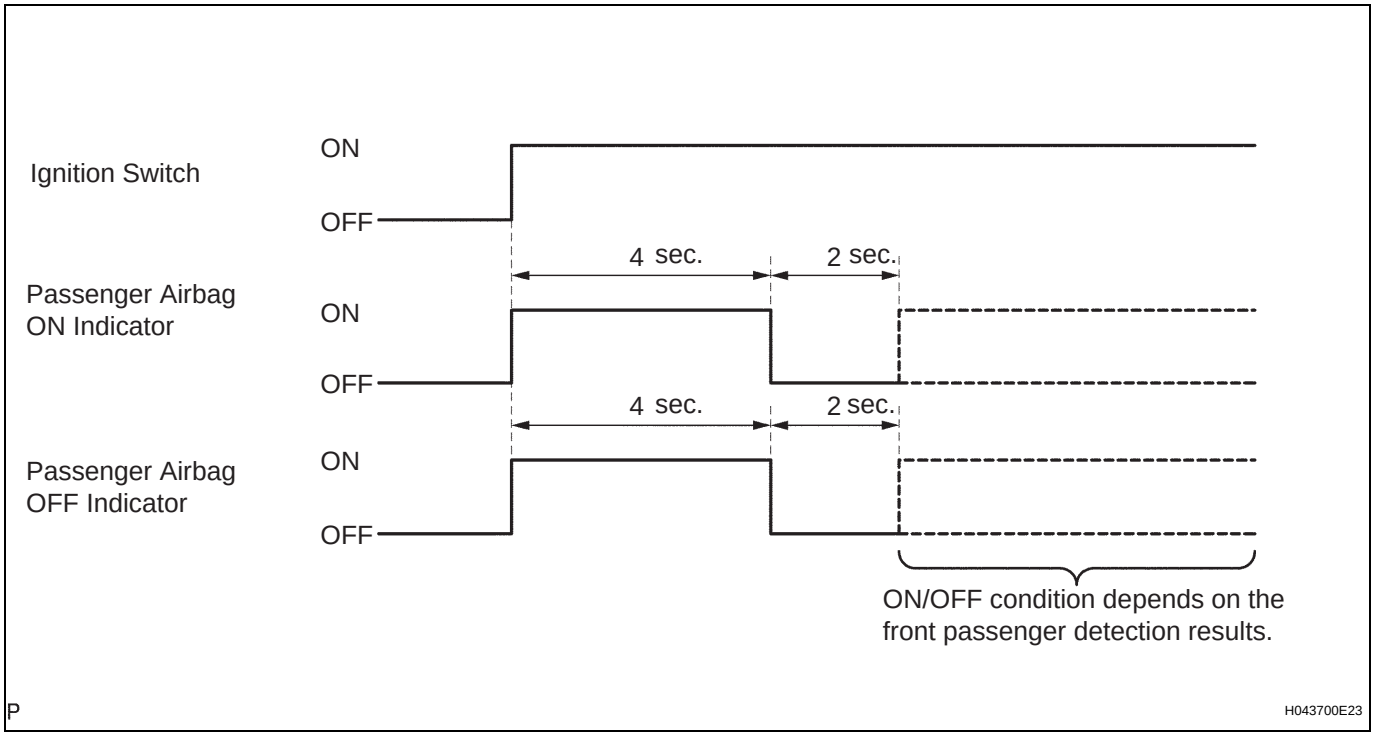
RS

(3) Approximately 6 seconds after the ignition switch is turned to the ON position, the passenger airbag ON/OFF indicator will be ON/OFF depending on the conditions listed below.

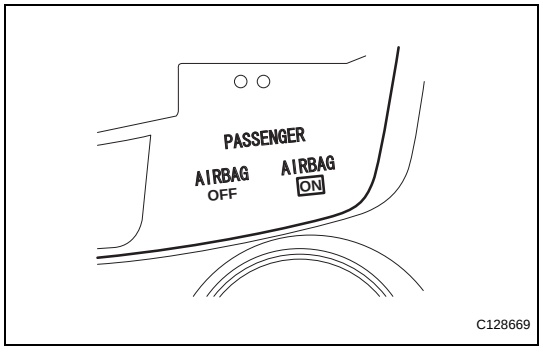
Condition	ON Indicator	OFF Indicator
Vacant	OFF	OFF
Adult is seated	ON	OFF
Child is seated	OFF	ON
Child restraint system is set	OFF	ON
Front passenger occupant classification system failure	OFF	ON

HINT:

- The passenger airbag ON/OFF indicator operates based on the timing chart below in order to check the indicator light circuit.



- When the occupant classification system has trouble, both the SRS warning light and the passenger airbag OFF indicator (OFF) come on. In this case, check the DTCs in the airbag system first.



5. CHECK PASSENGER AIRBAG ON/OFF INDICATOR

(a) Turn the ignition switch ON.

(b) Check that the passenger airbag ON/OFF indicators come on for approximately 4 seconds, then go off for approximately 2 seconds.

HINT:

Refer to the table in the previous step regarding the passenger airbag ON/OFF indicator when approximately 6 seconds have elapsed after the ignition switch is turned to the ON position.

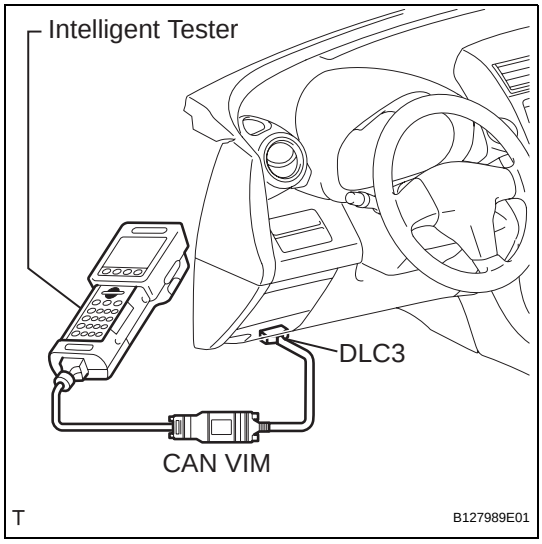
RS

DTC CHECK / CLEAR

1. CHECK DTC

HINT:

- When DTC B1650/23 is detected as a result of troubleshooting for the airbag system, troubleshoot the occupant classification system.
- Use the intelligent tester (with CAN VIM) to read and clear DTCs, otherwise the DTCs cannot be read and cleared.



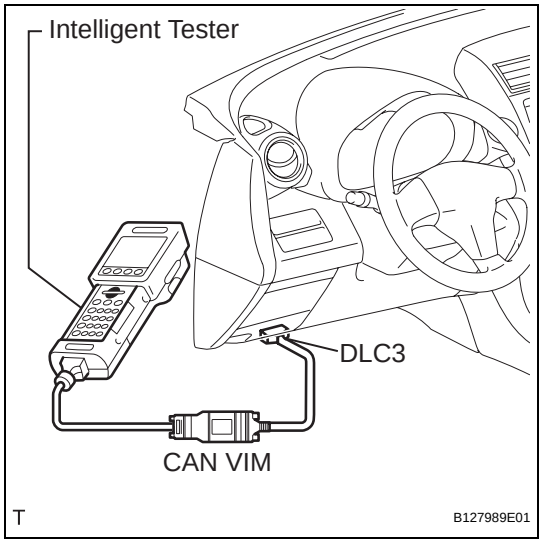
(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Check for DTCs by following the prompts on the tester screen.
HINT:
Refer to the intelligent tester operator's manual for further details.

2. Clear DTC

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Clear the DTCs by following the prompts on the tester screen.
HINT:
Refer to the intelligent tester operator's manual for further details.

DATA LIST / ACTIVE TEST

HINT:
Using the intelligent tester's DATA LIST allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to save time.



1. DATA LIST FOR OCCUPANT CLASSIFICATION ECU

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Read the DATA LIST on the tester's screen.

Occupant classification ECU

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
IG SW	Ignition switch condition/ ON: Ignition switch ON OFF: Ignition switch OFF	ON/OFF	-
P BUCKLE SW	Buckle switch (Front passenger side)/ UNSET: Front passenger side seat belt is unfastened SET: Front passenger side seat belt is fastened NG: Front passenger side seat belt is malfunctioning	UNSET/SET	-
Front passenger CLASS	Front passenger classification/ AF05: Adult (36 to 54 kg (79.37 to 119.05 lb)) is seated AM50: Adult (more than 54 kg (119.05 lb)) is seated CHILD: Child (less than 36 kg (79.37 lb)) is seated CRS: Child restraint system and front passenger side buckle switch ON, then 7 to 36 kg (15.43 to 79.37 lb) is set OFF: Vacant	AF05/AM50/CHILD/CRS/OFF	-
SENS RANGE INF	Sensor range information/ OK: The sensor value is within the range NG: The sensor value is outside the range	OK	-
FL SENS RANGE	Front left sensor range information/ OK: Sensor range is -17 to 27 kg (-37.48 to 59.52 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 27 kg (59.52 lb)	OK	-

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
FR SENS RANGE	Front right sensor range information/ OK: Sensor range is -17 to 27 kg (-37.48 to 59.52 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 27 kg (59.52 lb)	OK	-
RL SENS RANGE	Rear left sensor range information/ OK: Sensor range is -17 to 37 kg (-37.48 to 81.57 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 37 kg (81.57 lb)	OK	-
RR SENS RANGE	Rear right sensor range information/ OK: Sensor range is -17 to 37 kg (-37.48 to 81.57 lb) Min.: Less than -17 kg (-37.48 lb) Max.: More than 37 kg (81.57 lb)	OK	-
FL SENS VOL	Front left sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
FR SENS VOL	Front right sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
RL SENS VOL	Rear left sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
RR SENS VOL	Rear right sensor voltage/ Min.: 0 V Max.: 19.8 V	0 to 4.7 V	-
FL SENS WEIGHT	Front left sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 27 kg (59.52 lb)	-17 to 27 kg (-37.48 to 59.52 lb)	-
FR SENS WEIGHT	Front right sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 27 kg (59.52 lb)	-17 to 27 kg (-37.48 to 59.52 lb)	-
RL SENS WEIGHT	Rear left sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 37 kg (81.57 lb)	-17 to 37 kg (-37.48 to 81.57 lb)	-
RR SENS WEIGHT	Rear right sensor weight information/ Min.: -17 kg (-37.48 lb) Max.: 37 kg (81.57 lb)	-17 to 37 kg (-37.48 to 81.57 lb)	-
TOTAL WEIGHT	Total weight information/ Min.: -68 kg (-149.91 lb) Max.: 128 kg (282.19 lb)	-68 to 128 kg (-149.91 to 282.19 lb)	-
#PRESENT CODES	Number of present DTCs Min.: 0, Max.: 255	0	-
#PAST CODES	Number of past DTCs Min.: 0, Max.: 255	0	-

DIAGNOSTIC TROUBLE CODE CHART

If a trouble code is displayed during the DTC check, check the circuit listed for the code in the table below (proceed to the page listed for that circuit).

Occupant classification system

DTC No.	Detection Item	Trouble Area	See page
B1771	Passenger Side Buckle Switch Circuit Malfunction	1. Floor wire 2. Front seat inner belt assembly (Buckle switch RH) 3. Occupant classification ECU	RS-254
B1780	Front Occupant Classification Sensor LH Circuit Malfunction	1. Front seat wire RH 2. Front seat assembly RH (Front occupant classification sensor RH) 3. Occupant classification ECU	RS-260
B1781	Front Occupant Classification Sensor RH Circuit Malfunction	1. Front seat wire RH 2. Front seat assembly RH (Front occupant classification sensor RH) 3. Occupant classification ECU	RS-267
B1782	Rear Occupant Classification Sensor LH Circuit Malfunction	1. Front seat wire RH 2. Front seat assembly RH (Rear occupant classification sensor LH) 3. Occupant classification ECU	RS-274
B1783	Rear Occupant Classification Sensor RH Circuit Malfunction	1. Front seat wire RH 2. Front seat assembly RH (Rear occupant classification sensor RH) 3. Occupant classification ECU	RS-281
B1785	Front Occupant Classification Sensor LH Collision Detection	1. Front seat assembly RH (Front occupant classification sensor LH) 2. Occupant classification ECU	RS-288
B1786	Front Occupant Classification Sensor RH Collision Detection	1. Front seat assembly RH (Front occupant classification sensor RH) 2. Occupant classification ECU	RS-292
B1787	Rear Occupant Classification Sensor LH Collision Detection	1. Front seat assembly RH (Rear occupant classification sensor LH) 2. Occupant classification ECU	RS-296
B1788	Rear Occupant Classification Sensor RH Collision Detection	1. Front seat assembly RH (Rear occupant classification sensor RH) 2. Occupant classification ECU	RS-300
B1790	Center Airbag Sensor Assembly Communication Circuit Malfunction	1. Floor wire 2. Occupant classification ECU 3. Center airbag sensor assembly	RS-304
B1793	Occupant Classification Sensor Power Supply Circuit Malfunction	1. Front seat wire RH 2. Front seat assembly RH (Occupant classification sensors) 3. Occupant classification ECU	RS-311
B1794	Open in Occupant Classification ECU Battery Positive Line	1. Wire harness 2. Occupant classification ECU	RS-319
B1795	Occupant Classification ECU Malfunction	1. Battery 2. ECU-B Fuse 3. No. 2 floor wire 4. Front seat inner belt RH 5. Occupant classification ECU	RS-323

DTC No.	Detection Item	Trouble Area	See page
B1796	Sleep Operation Failure of Occupant Classification ECU	Occupant classification ECU	RS-326

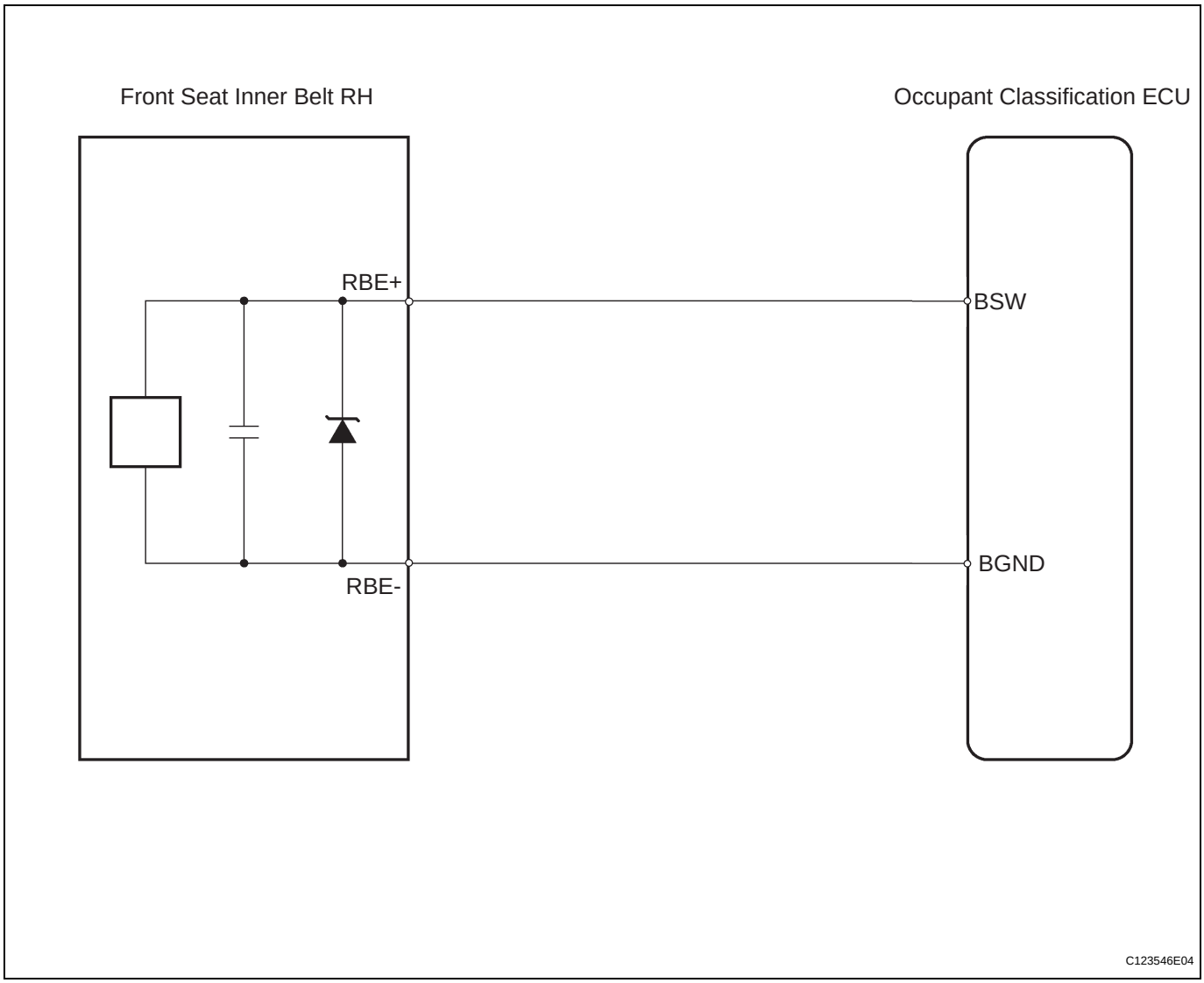
DTC	B1771	Passenger Side Buckle Switch Circuit Malfunction

DESCRIPTION

The passenger side buckle switch circuit consists of the occupant classification ECU and the front seat inner belt RH.
DTC B1771 is recorded when a malfunction is detected in the passenger side buckle switch circuit.
Troubleshoot DTC B1771 first when DTCs B1771 and B1795 are output simultaneously.

DTC No.	DTC Detection Condition	Trouble Area
B1771	When one of following conditions is met: • Occupant classification ECU detects line short signal, open signal, short to ground signal or short to B+ signal in the passenger side buckle switch circuit for 2 seconds • Passenger side buckle switch malfunction • Occupant classification ECU malfunction	• Floor wire • Front seat inner belt RH (Buckle switch RH) • Occupant classification ECU

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1771 is not output.
HINT:
DTCs other than DTC B1771 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK CONNECTION OF CONNECTOR

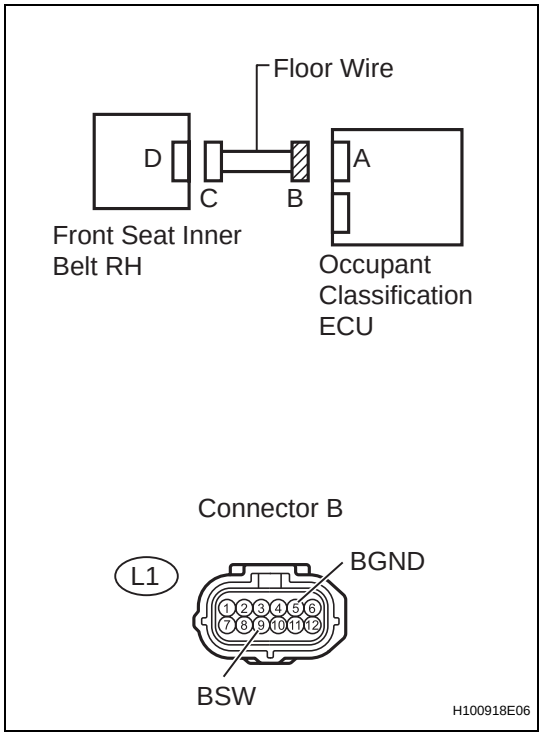
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the front seat inner belt RH.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3 CHECK FLOOR WIRE (TO B+)



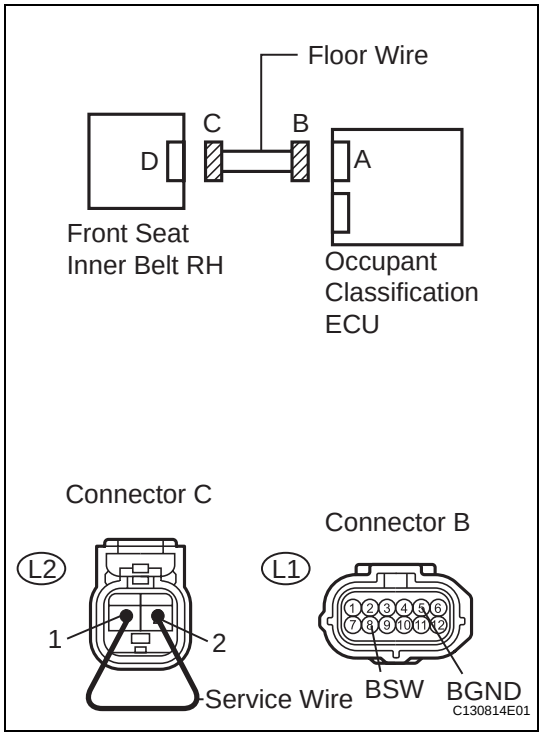
(a) Disconnect the connectors from the occupant classification ECU and the front seat inner belt RH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
L1-9 (BSW) - Body ground	Below 1 V
L1-5 (BGND) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

4 CHECK FLOOR WIRE (FOR OPEN)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Using a service wire, connect terminals L2-2 and L2-1 of connector C.
NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting them.
(d) Measure the resistance of the wire harness side connectors.
Standard resistance

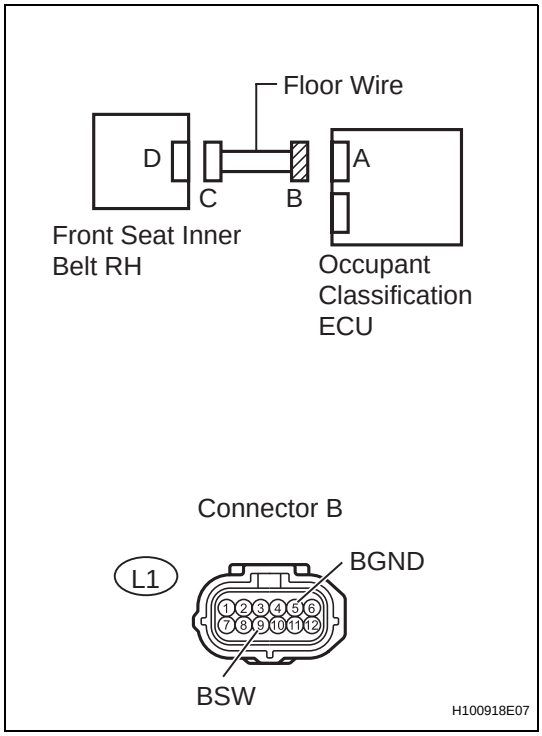
Tester Connection	Specified Condition
L1-9 (BSW) - L1-5 (BGND)	Below 1 Ω

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

5 CHECK FLOOR WIRE (FOR SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.

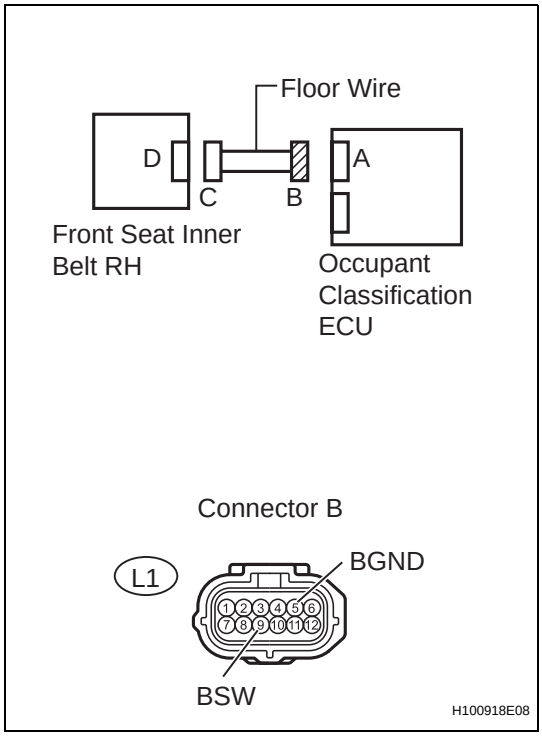
Standard resistance

Tester Connection	Specified Condition
L1-9 (BSW) - L1-5 (BGND)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FLOOR WIRE (TO GROUND)



(a) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
L1-9 (BSW) - Body ground	1 MΩ or higher
L1-5 (BGND) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

7	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the front seat inner belt RH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON.
(g) Check the DTCs (see page RS-249).
OK:
DTC B1771 is not output.
HINT:
DTCs other than DTC B1771 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

8	REPLACE FRONT SEAT INNER BELT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat inner belt RH (see page SB-21).
HINT:
Perform the inspection using parts from a normal vehicle if possible.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(g) Turn the ignition switch OFF.
(h) Turn the ignition switch ON.
(i) Check the DTCs (see page RS-249).
OK:
DTC B1771 is not output.
HINT:
DTCs other than DTC B1771 may be output at this time, but they are not related to this check.

OK → **END**

NG

9	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).

NEXT

10	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

11	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

RS

NEXT

END

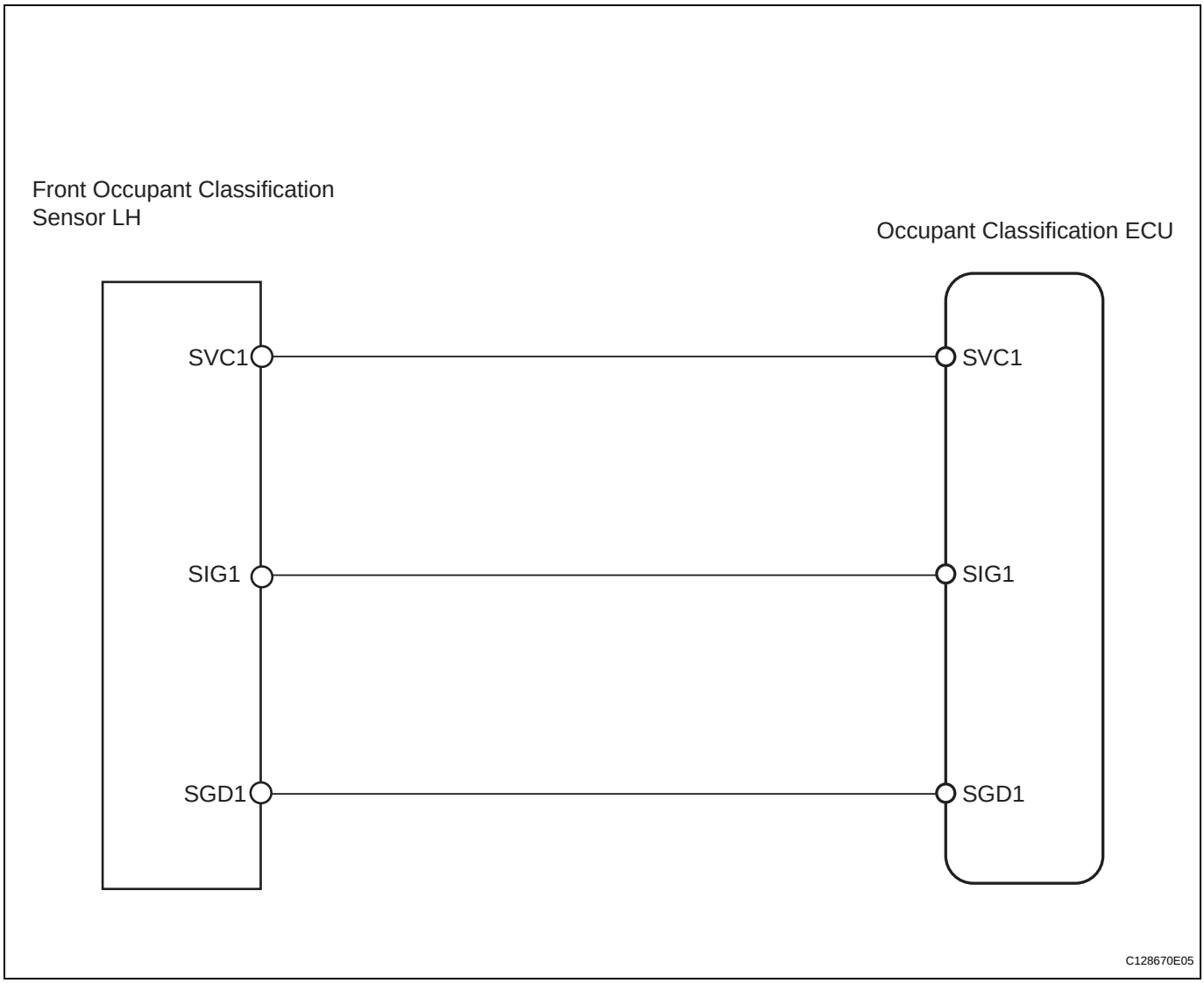
DTC	B1780	Front Occupant Classification Sensor LH Circuit Malfunction

DESCRIPTION

The front occupant classification sensor LH circuit consists of the occupant classification ECU and the front occupant classification sensor LH.
DTC B1780 is recorded when a malfunction is detected in the front occupant classification sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1780	When one of following conditions is met: • Occupant classification ECU detects line short signal, open signal, short to ground signal or short to B+ signal in the front occupant classification sensor LH circuit for 2 seconds • Front occupant classification sensor LH malfunction • Occupant classification ECU malfunction	• Front seat wire RH • Front seat RH (Front occupant classification sensor LH) • Occupant classification ECU

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1780 is not output.
HINT:
DTCs other than DTC B1780 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

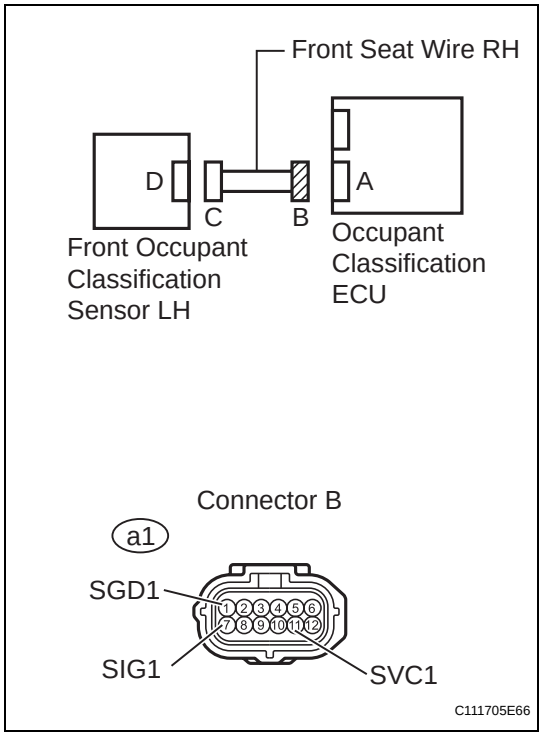
2	CHECK CONNECTION OF CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the front occupant classification sensor LH.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

3 CHECK FRONT SEAT WIRE RH (TO B+)



(a) Disconnect the connectors from the occupant classification ECU and the front occupant classification sensor LH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

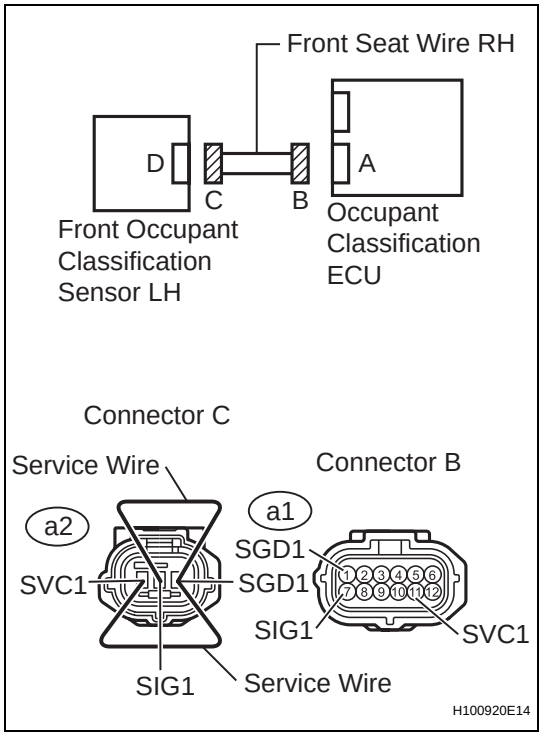
Standard voltage

Tester Connection	Specified Condition
a1-1 (SGD1) - Body ground	Below 1 V
a1-7 (SIG1) - Body ground	Below 1 V
a1-11 (SVC1) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

4 CHECK FRONT SEAT WIRE RH (FOR OPEN)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Using a service wire, connect terminals a2-1 (SVC1) and a2-3 (SGD1), and connect terminals a2-2 (SIG1) and a2-3 (SGD1) of connector C.

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

(d) Measure the resistance of the wire harness side connector.

Standard resistance

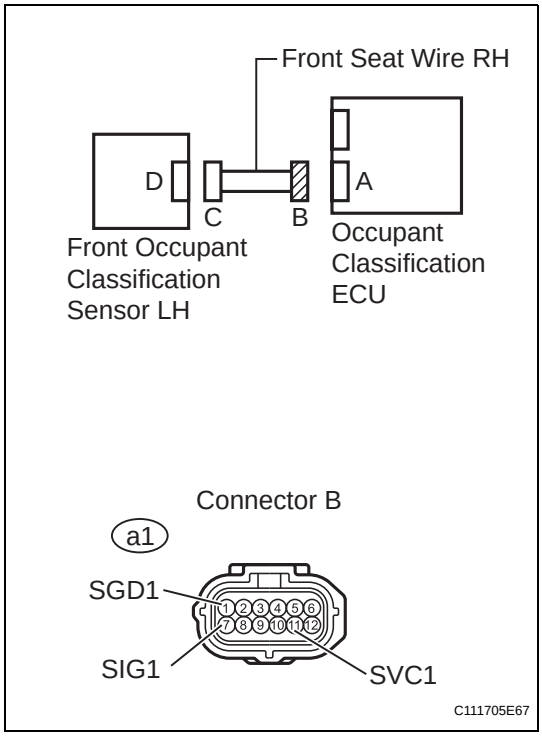
Tester Connection	Specified Condition
a1-7 (SIG1) - a1-1 (SGD1)	Below 1 Ω
a1-11 (SVC1) - a1-1 (SGD1)	Below 1 Ω

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

5 CHECK FRONT SEAT WIRE RH (FOR SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.

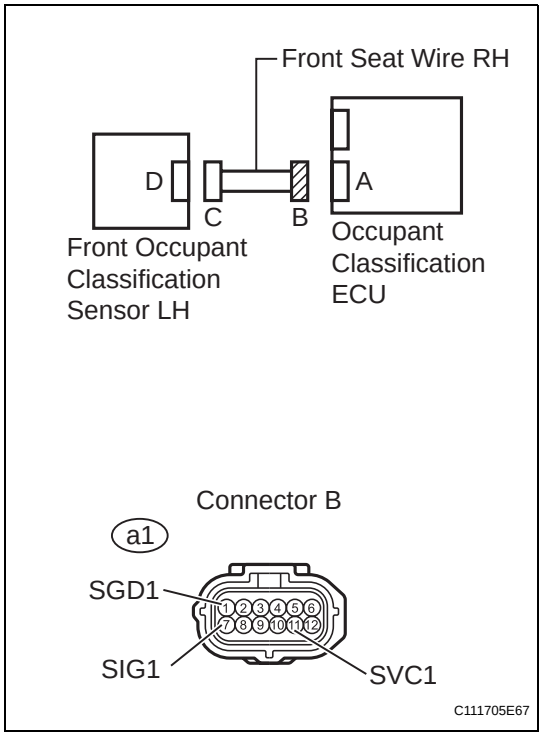
Standard resistance

Tester Connection	Specified Condition
a1-7 (SIG1) - a1-1 (SGD1)	1 MΩ or higher
a1-11 (SVC1) - a1-1 (SGD1)	1 MΩ or higher
a1-7 (SIG1) - a1-11 (SVC1)	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

6 CHECK FRONT SEAT WIRE RH (TO GROUND)



(a) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
a1-1 (SGD1) - Body ground	1 MΩ or higher
a1-7 (SIG1) - Body ground	1 MΩ or higher
a1-11 (SVC1) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

7	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the front occupant classification sensor LH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON.
(g) Check the DTCs (see page RS-249).
OK:
DTC B1780 is not output.
HINT:
DTCs other than DTC B1780 may be output at this time, but they are not related to this check.

OK	USE SIMULATION METHOD TO CHECK

NG

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG	Go to step 12

OK

RS

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard values:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 12**

OK

11	CHECK FOR DTC

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(d) Turn the ignition switch OFF.
(e) Turn the ignition switch ON.
(f) Check the DTCs (see page RS-249).
OK:
DTC B1780 is not output.
HINT:
Codes other than DTC B1780 may be output at this time, but they are not related to this check.

OK → **END**

RS

NG

12	REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat RH (see page SE-11).

NEXT

13	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

14	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

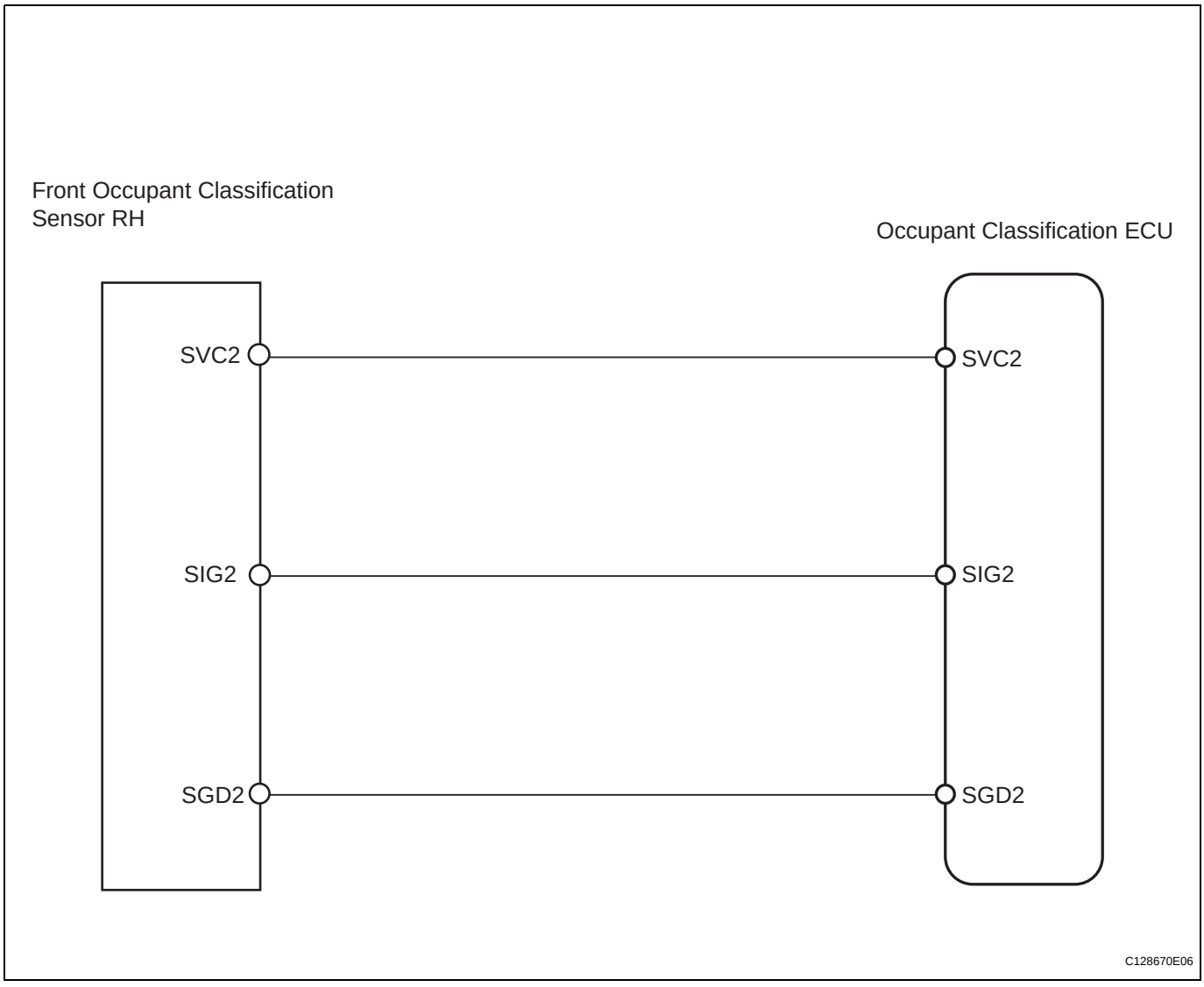
DTC	B1781	Front Occupant Classification Sensor RH Circuit Malfunction

DESCRIPTION

The front occupant classification sensor RH circuit consists of the occupant classification ECU and the front occupant classification sensor RH.
DTC B1781 is recorded when a malfunction is detected in the front occupant classification sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1781	When one of following conditions is met: • Occupant classification ECU detects line short signal, open signal, short to ground signal or short to B+ signal in the front occupant classification sensor RH circuit for 2 seconds • Front occupant classification sensor RH malfunction • Occupant classification ECU malfunction	• Front seat wire RH • Front seat RH (Front occupant classification sensor RH) • Occupant classification ECU

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1781 is not output.
HINT:
DTCs other than DTC B1781 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK CONNECTION OF CONNECTOR

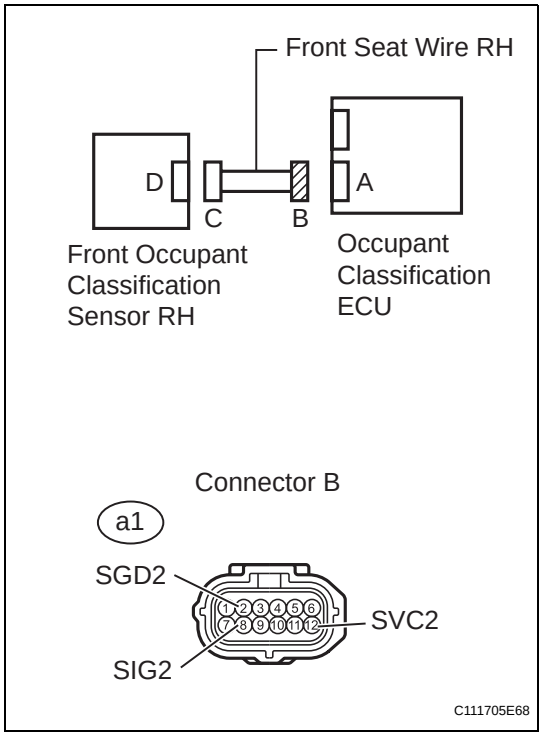
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the front occupant classification sensor RH.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3 CHECK FRONT SEAT WIRE RH (TO B+)



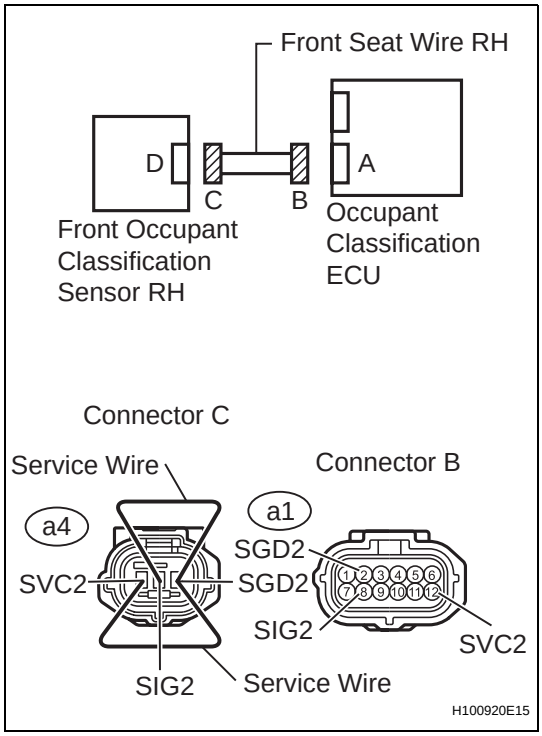
(a) Disconnect the connectors from the occupant classification ECU and the front occupant classification sensor RH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
a1-2 (SGD2) - Body ground	Below 1 V
a1-8 (SIG2) - Body ground	Below 1 V
a1-12 (SVC2) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

4 CHECK FRONT SEAT WIRE RH (FOR OPEN)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Using a service wire, connect terminals a4-1 (SVC2) and a4-3 (SGD2), and connect terminals a4-2 (SIG2) and a4-3 (SGD2) of connector C.
NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting them.
(d) Measure the resistance of the wire harness side connector.
Standard resistance

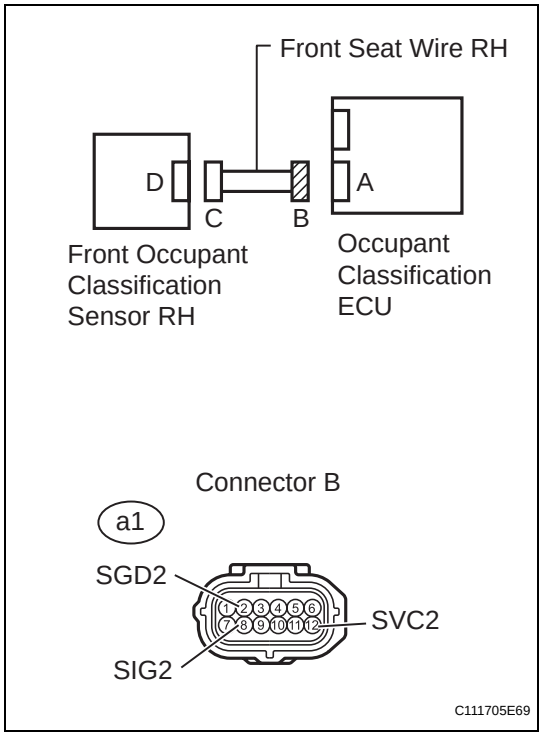
Tester Connection	Specified Condition
a1-8 (SIG2) - a1-2 (SGD2)	Below 1 Ω
a1-12 (SVC2) - a1-2 (SGD2)	Below 1 Ω

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

5 CHECK FRONT SEAT WIRE RH (FOR SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.

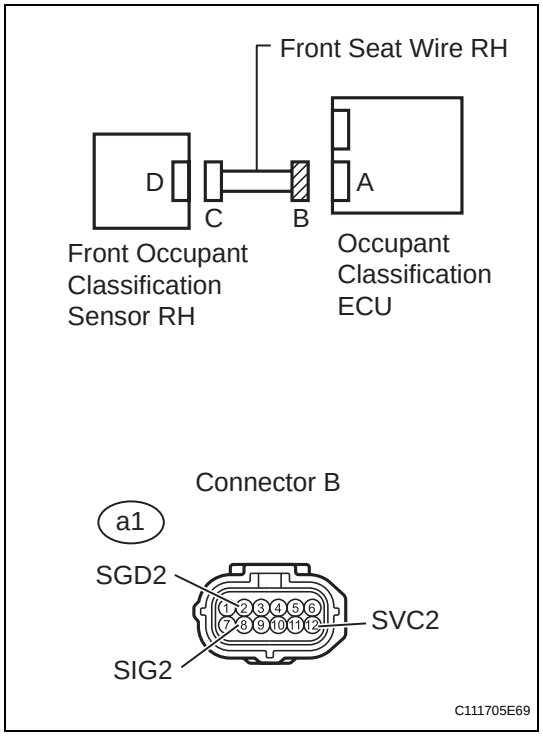
Standard resistance

Tester Connection	Specified Condition
a1-8 (SIG2) - a1-2 (SGD2)	1 MΩ or higher
a1-12 (SVC2) - a1-2 (SGD2)	1 MΩ or higher
a1-8 (SIG2) - a1-12 (SVC2)	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

6 CHECK FRONT SEAT WIRE RH (TO GROUND)



(a) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
a1-2 (SGD2) - Body ground	1 MΩ or higher
a1-8 (SIG2) - Body ground	1 MΩ or higher
a1-12 (SVC2) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

7	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the front occupant classification sensor RH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON.
(g) Check the DTCs (see page RS-249).
OK:
DTC B1781 is not output.
HINT:
DTCs other than DTC B1781 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 12**

OK

RS

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 12**

OK

11	CHECK FOR DTC

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
(d) Turn the ignition switch OFF.
(e) Turn the ignition switch ON.
(f) Check the DTCs (see page RS-249).
OK:
DTC B1781 is not output.
HINT:
DTCs other than DTC B1781 may be output at this time, but they are not related to this check.

OK → **END**

NG

12	REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat RH (see page SE-8).

NEXT

13	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

14	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

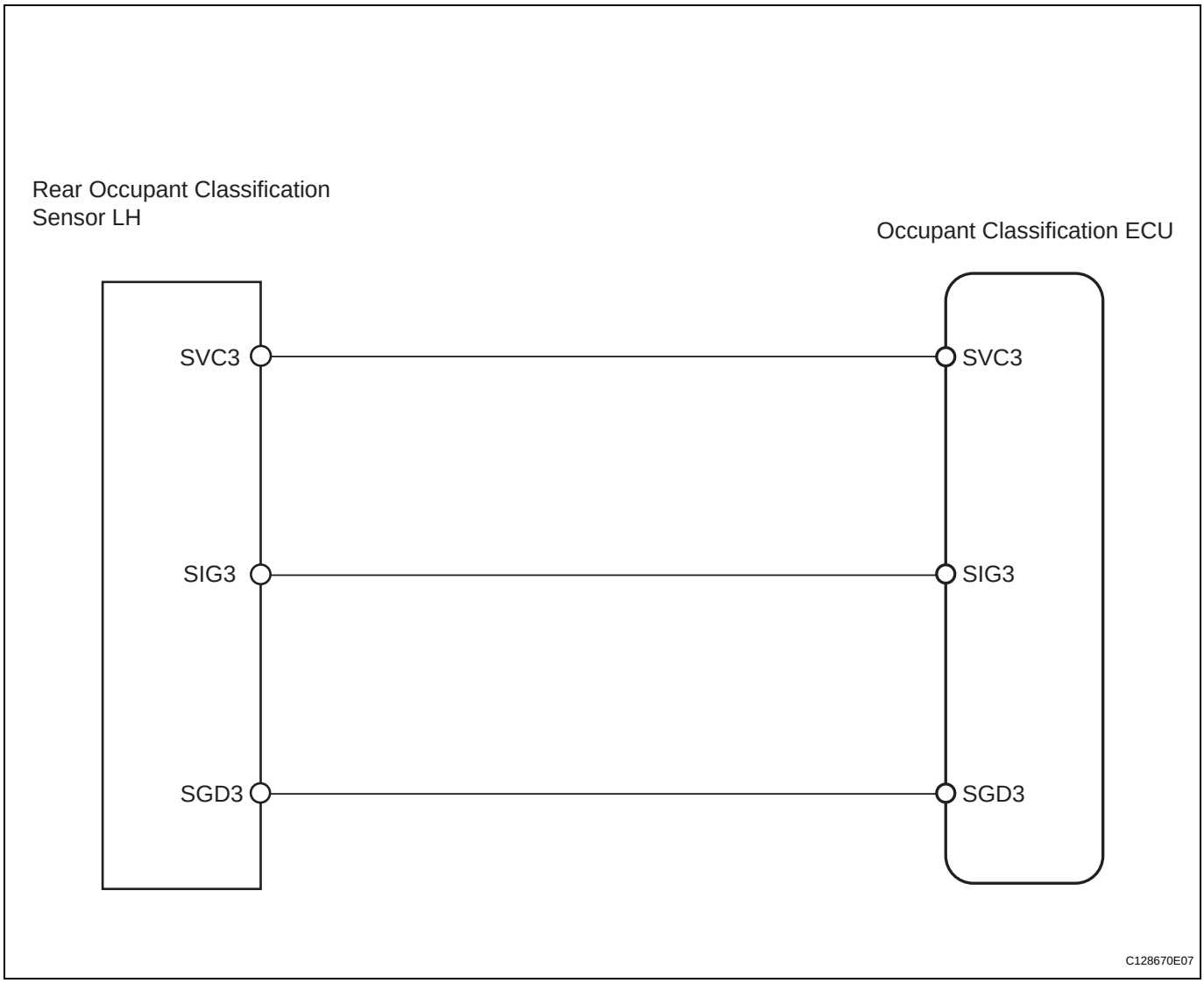
DTC	B1782	Rear Occupant Classification Sensor LH Circuit Malfunction

DESCRIPTION

The rear occupant classification sensor LH circuit consists of the occupant classification ECU and the rear occupant classification sensor LH.
DTC B1782 is recorded when a malfunction is detected in the rear occupant classification sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1782	When one of following conditions is met: • Occupant classification ECU detects line short signal, open signal, short to ground signal or short to B+ signal in the rear occupant classification sensor LH circuit for 2 seconds • Rear occupant classification sensor LH malfunction • Occupant classification ECU malfunction	• Front seat wire RH • Front seat RH (Rear occupant classification sensor LH) • Occupant classification ECU

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1782 is not output.
HINT:
DTCs other than DTC B1782 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK CONNECTION OF CONNECTOR

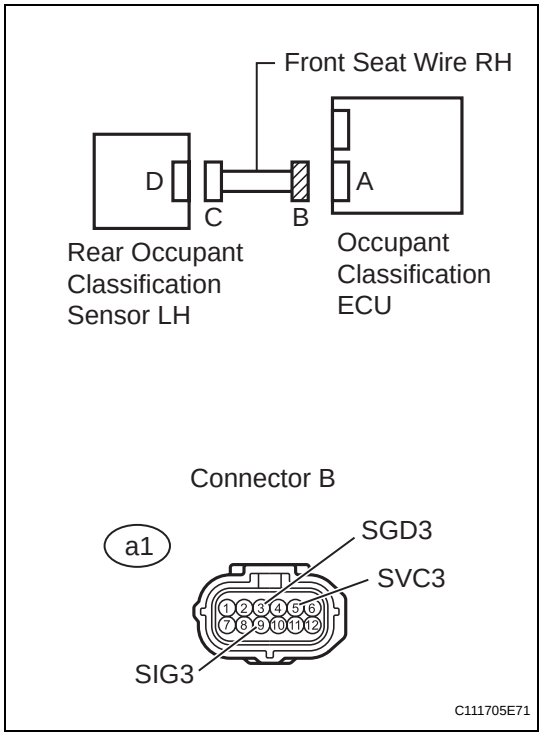
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the rear occupant classification sensor LH.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3 CHECK FRONT SEAT WIRE RH (TO B+)



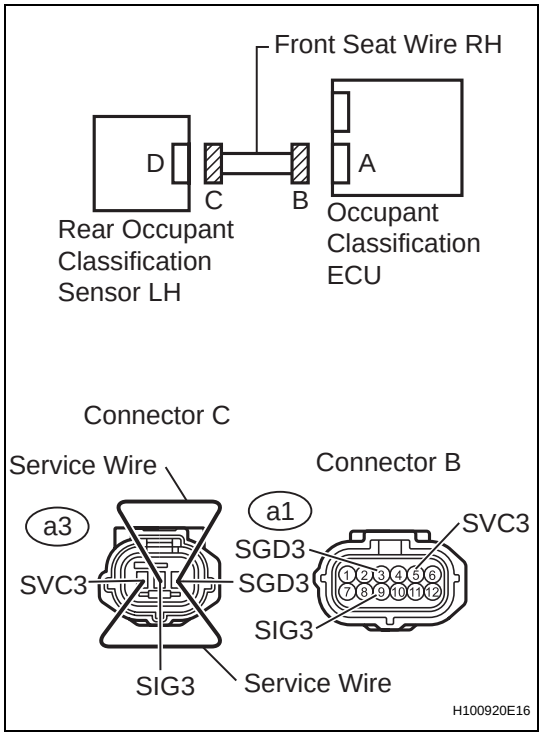
(a) Disconnect the connectors from the occupant classification ECU and the rear occupant classification sensor LH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
a1-3 (SGD3) - Body ground	Below 1 V
a1-5 (SVC3) - Body ground	Below 1 V
a1-9 (SIG3) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

4 CHECK FRONT SEAT WIRE RH (FOR OPEN)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Using a service wire, connect terminals a3-1 (SVC3) and a3-3 (SGD3), and connect terminals a3-2 (SIG3) and a3-3 (SGD3) of connector C.
NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting them.
(d) Measure the resistance of the wire harness side connector.
Standard resistance

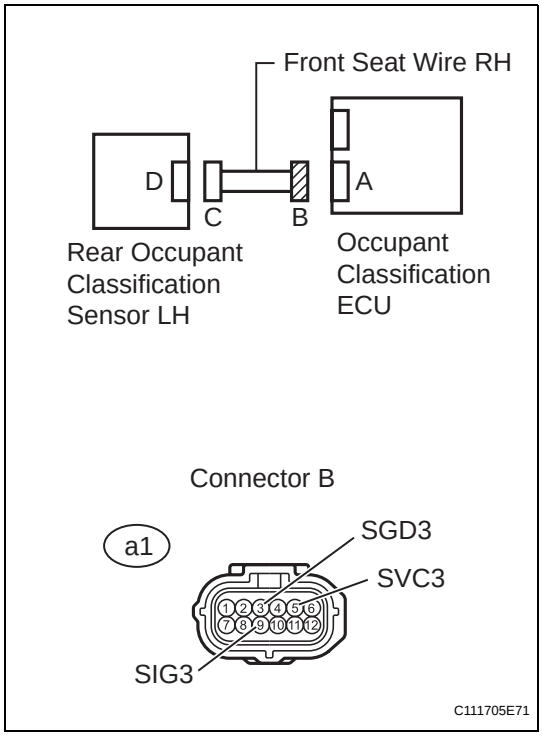
Tester Connection	Specified Condition
a1-5 (SVC3) - a1-3 (SGD3)	Below 1 Ω
a1-9 (SIG3) - a1-3 (SGD3)	Below 1 Ω

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

5 CHECK FRONT SEAT WIRE RH (FOR SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.

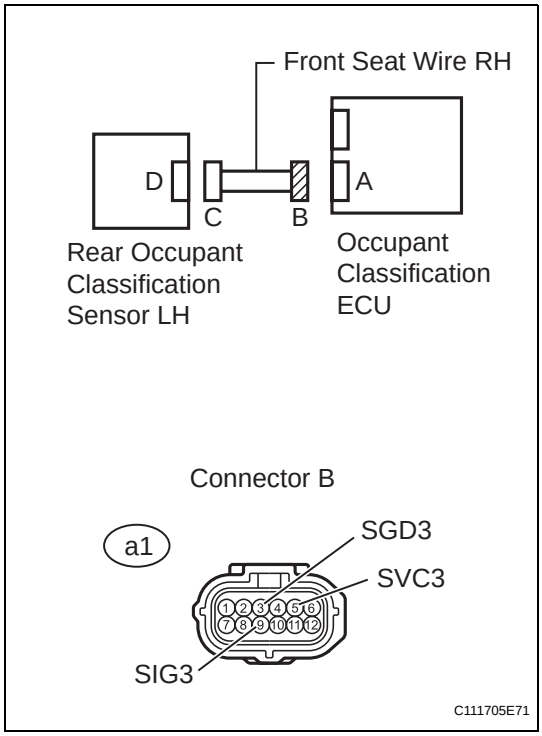
Standard resistance

Tester Connection	Specified Condition
a1-5 (SVC3) - a1-3 (SGD3)	1 MΩ or higher
a1-9 (SIG3) - a1-3 (SGD3)	1 MΩ or higher
a1-5 (SVC3) - a1-9 (SIG3)	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

6 CHECK FRONT SEAT WIRE RH (TO GROUND)



(a) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
a1-3 (SGD3) - Body ground	1 MΩ or higher
a1-5 (SVC3) - Body ground	1 MΩ or higher
a1-9 (SIG3) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

7	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the rear occupant classification sensor LH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON.
(g) Check the DTCs (see page RS-249).
OK:
DTC B1782 is not output.
HINT:
DTCs other than DTC B1782 may be output at this time, but they are not related to this check.

OK	USE SIMULATION METHOD TO CHECK

NG

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG	Go to step 12

OK

RS

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 12**

OK

11	CHECK FOR DTC

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(d) Turn the ignition switch OFF.
(e) Turn the ignition switch ON.
(f) Check the DTCs (see page RS-249).
OK:
DTC B1782 is not output.
HINT:
DTCs other than DTC B1782 may be output at this time, but they are not related to this check.

OK → **END**

RS

NG

12	REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat assembly RH (see page SE-8).

NEXT

13	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

14	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

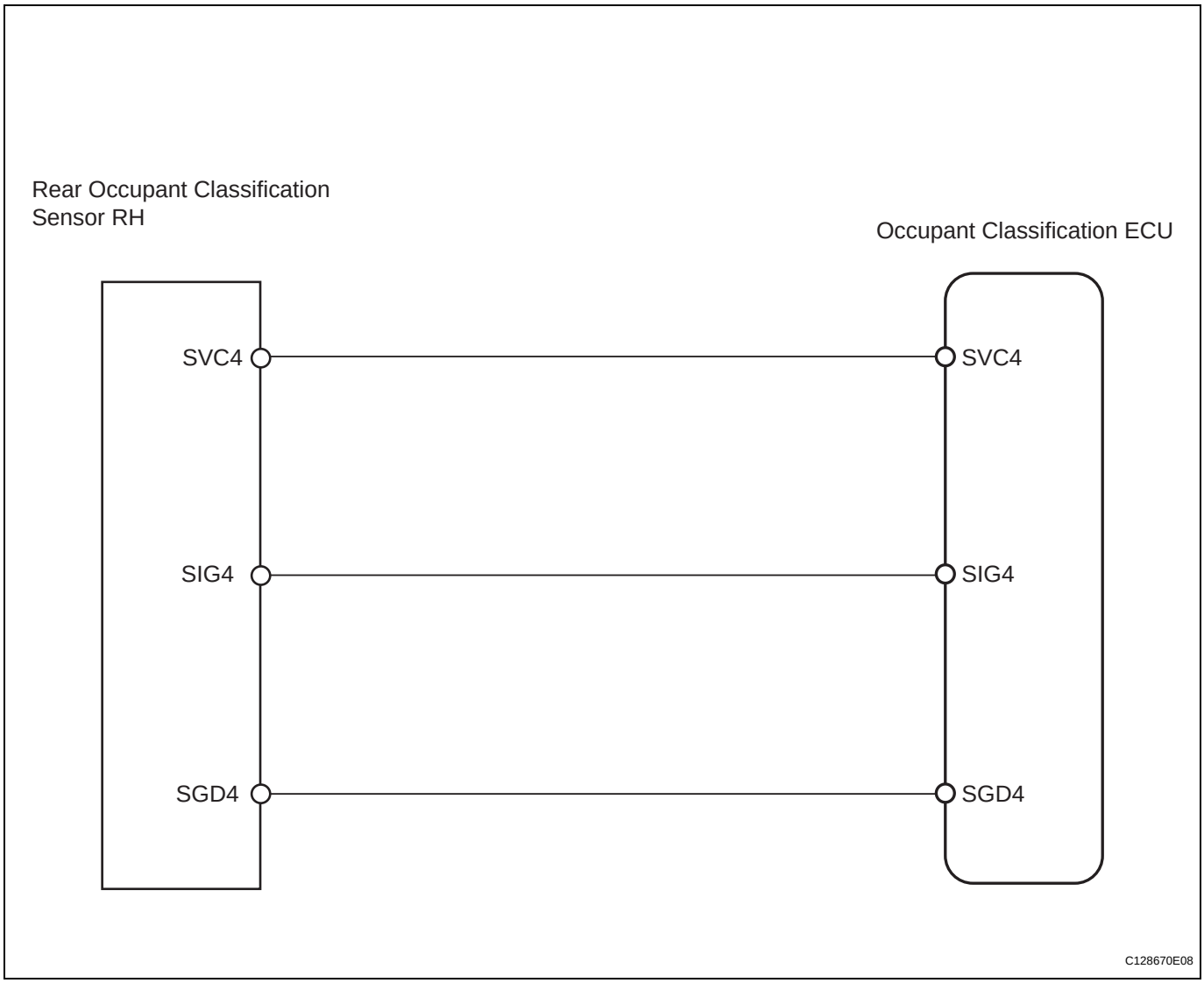
DTC	B1783	Rear Occupant Classification Sensor RH Circuit Malfunction

DESCRIPTION

The rear occupant classification sensor RH circuit consists of the occupant classification ECU and the rear occupant classification sensor RH.
DTC B1783 is recorded when a malfunction is detected in the rear occupant classification sensor RH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1783	When one of following conditions is met: • Occupant classification ECU detects line short signal, open signal, short to ground signal or short to B+ signal in the rear occupant classification sensor RH circuit for 2 seconds • Rear occupant classification sensor RH malfunction • Occupant classification ECU malfunction	• Front seat wire RH • Front seat RH (Rear occupant classification sensor RH) • Occupant classification ECU

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1	CHECK DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1783 is not output.
HINT:
DTCs other than DTC B1783 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK CONNECTION OF CONNECTOR

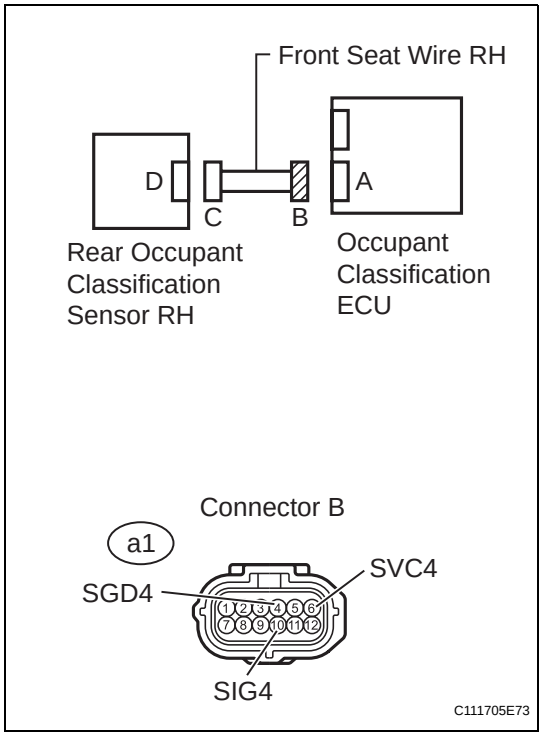
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the rear occupant classification sensor RH.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3 CHECK FRONT SEAT WIRE RH (TO B+)



(a) Disconnect the connectors from the occupant classification ECU and the rear occupant classification sensor RH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

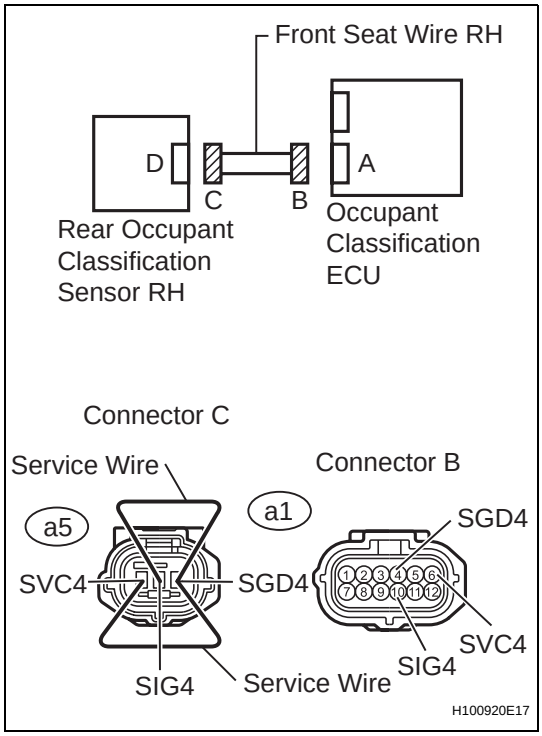
Standard voltage

Tester Connection	Specified Condition
a1-4 (SGD4) - Body ground	Below 1 V
a1-6 (SVC4) - Body ground	Below 1 V
a1-10 (SIG4) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

4 CHECK FRONT SEAT WIRE RH (FOR OPEN)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Using a service wire, connect terminals a5-1 (SVC4) and a5-3 (SGD4), and connect terminals a5-2 (SIG4) and a5-3 (SGD4) of connector C.

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

(d) Measure the resistance of the wire harness side connector.

Standard resistance

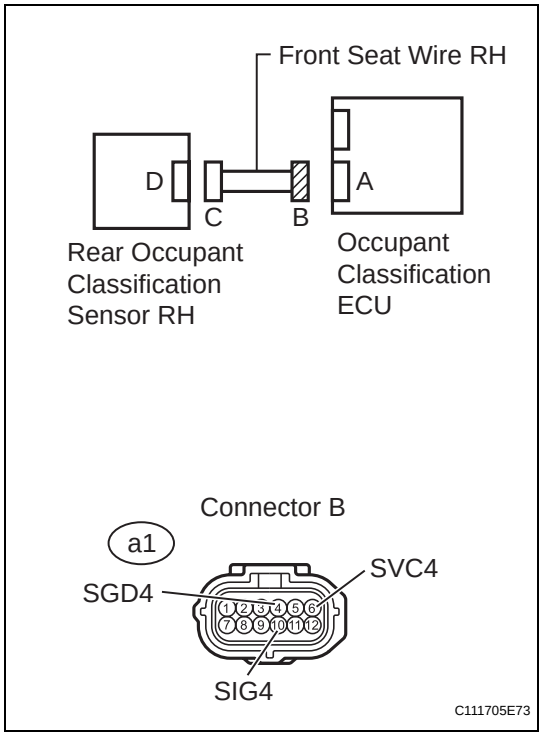
Tester Connection	Specified Condition
a1-6 (SVC4) - a1-4 (SGD4)	Below 1 Ω
a1-10 (SIG4) - a1-4 (SGD4)	Below 1 Ω

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

5 CHECK FRONT SEAT WIRE RH (FOR SHORT)



(a) Disconnect the service wire from connector C.
(b) Measure the resistance of the wire harness side connector.

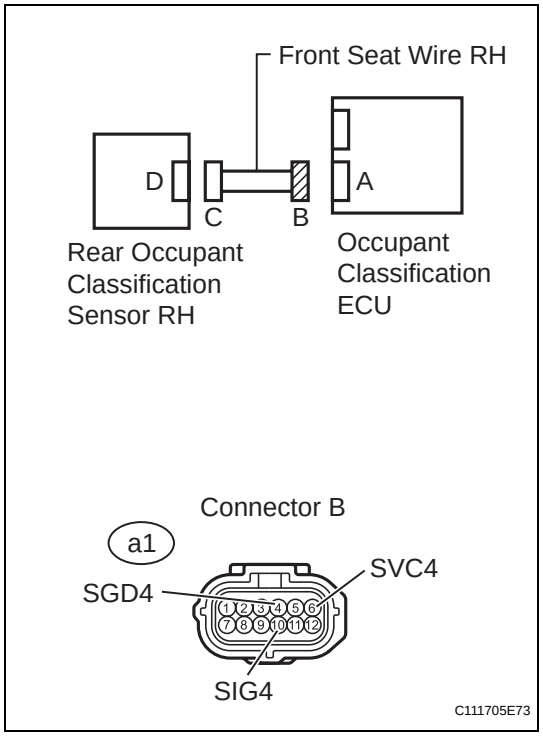
Standard resistance

Tester Connection	Specified Condition
a1-6 (SVC4) - a1-4 (SGD4)	1 MΩ or higher
a1-10 (SIG4) - a1-4 (SGD4)	1 MΩ or higher
a1-6 (SVC4) - a1-10 (SIG4)	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

6 CHECK FRONT SEAT WIRE RH (TO GROUND)



(a) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
a1-4 (SGD4) - Body ground	1 MΩ or higher
a1-6 (SVC4) - Body ground	1 MΩ or higher
a1-10 (SIG4) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

7	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the rear occupant classification sensor RH.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON.
(g) Check the DTCs (see page RS-249).
OK:
DTC B1783 is not output.
HINT:
DTCs other than DTC B1783 may be output at this time, but they are not related to this check.

OK	USE SIMULATION METHOD TO CHECK

NG

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG	Go to step 12

OK

RS

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 12**

OK

11	CHECK FOR DTC

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(d) Turn the ignition switch OFF.
(e) Turn the ignition switch ON.
(f) Check the DTCs (see page RS-249).
OK:
DTC B1783 is not output.
HINT:
DTCs other than DTC B1783 may be output at this time, but they are not related to this check.

OK → **END**

NG

12	REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat RH (see page SE-8).

NEXT

13	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

14	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

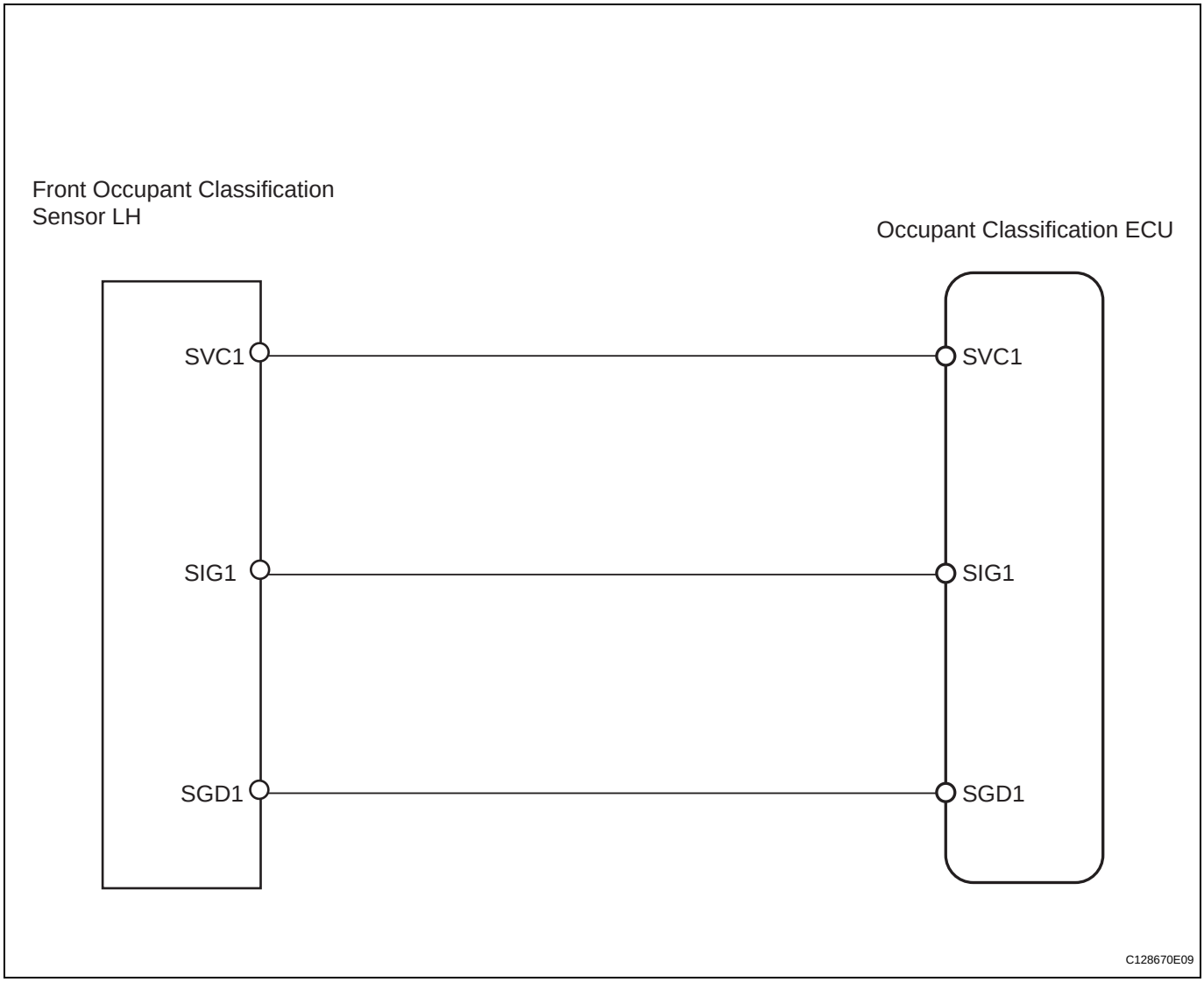
DTC	B1785	Front Occupant Classification Sensor LH Collision Detection

DESCRIPTION

DTC B1785 is output when the occupant classification ECU receives a collision detection signal sent by the front occupant classification sensor LH when an accident occurs.
DTC B1785 is also output when the front seat RH is subjected to a strong impact, even if an actual accident does not occur.
However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1785 can be cleared by performing the zero point calibration and sensitivity check.
Therefore, when DTC B1785 is output, first perform the zero point calibration and sensitivity check.

DTC No.	DTC Detection Condition	Trouble Area
B1785	When one of following conditions is met: • Front seat RH malfunction • Occupant classification ECU malfunction • Front occupant classification sensor LH detects large load	• Occupant classification ECU • Front seat RH (Front occupant classification sensor LH)

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 PERFORM ZERO POINT CALIBRATION

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 4**

OK ↓

2 PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 4**

OK ↓

3 CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1785 is not output.
HINT:
DTCs other than DTC B1785 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG ↓

4 REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.

RS

(c) Replace the front seat RH (see page SE-8).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

5	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 8**

OK

6	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 8**

OK

RS

7	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1785 is not output.
HINT:
DTCs other than DTC B1785 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page SE-8).

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

RS

NEXT

END

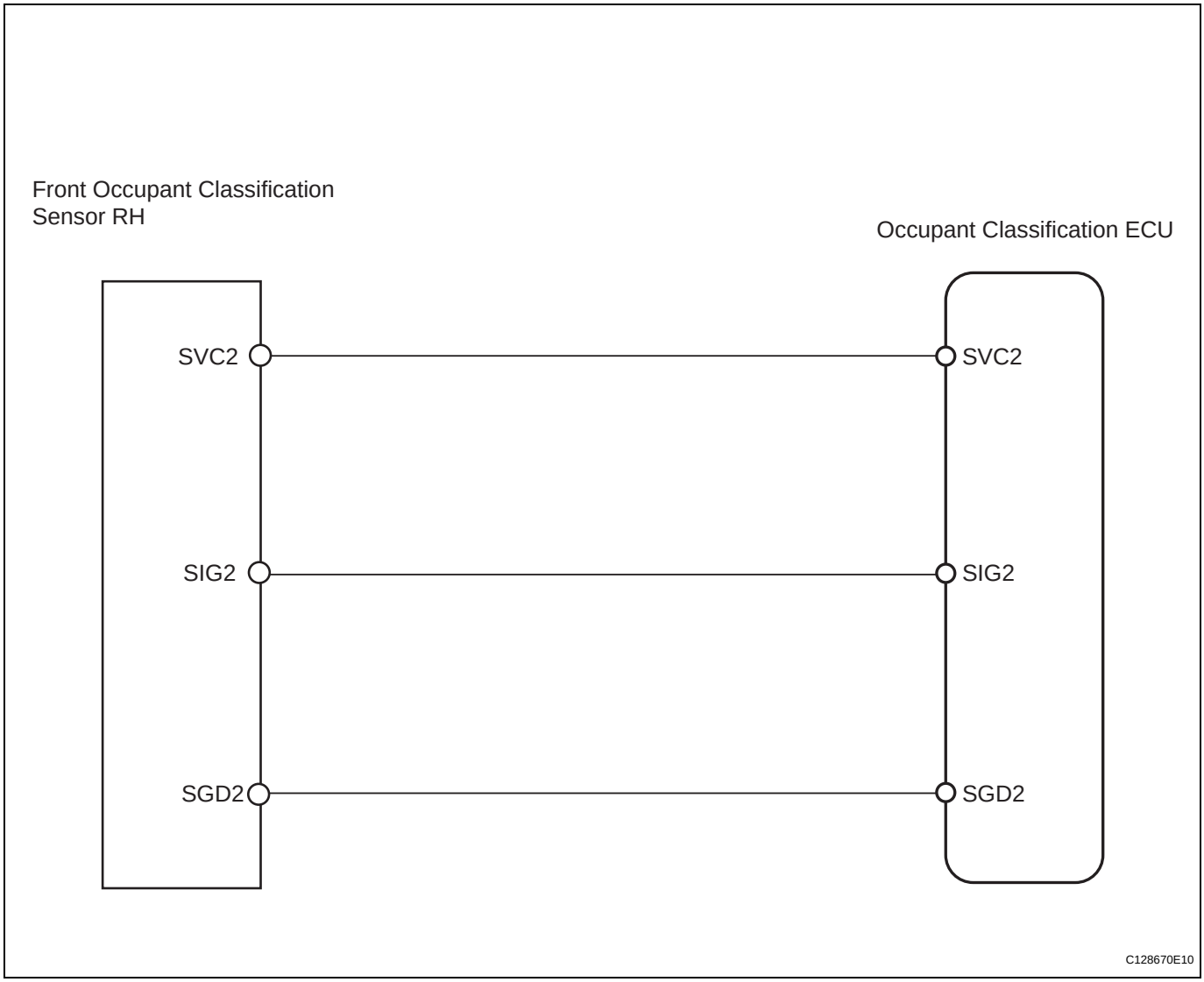
DTC	B1786	Front Occupant Classification Sensor RH Collision Detection

DESCRIPTION

DTC B1786 is output when the occupant classification ECU receives a collision detection signal sent by the front occupant classification sensor RH when an accident occurs.
DTC B1786 is also output when the front seat assembly RH is subjected to a strong impact, even if an actual accident does not occur.
However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1786 can be cleared by performing the zero point calibration and sensitivity check.
Therefore, when DTC B1786 is output, first perform the zero point calibration and sensitivity check.

DTC No.	DTC Detection Condition	Trouble Area
B1786	When one of following conditions is met: • Front seat RH malfunction • Occupant classification ECU malfunction • Front occupant classification sensor RH detects large load	• Occupant classification ECU • Front seat RH (Front occupant classification sensor RH)

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 PERFORM ZERO POINT CALIBRATION

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 4**

OK ↓

2 PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 4**

OK ↓

3 CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1786 is not output.
HINT:
DTCs other than DTC B1786 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG ↓

4 REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat RH (see page SE-8).

HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

5	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 8**

OK

6	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 8**

OK

7	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1786 is not output.
HINT:
DTCs other than DTC B1786 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

RS

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

RS

NEXT

END

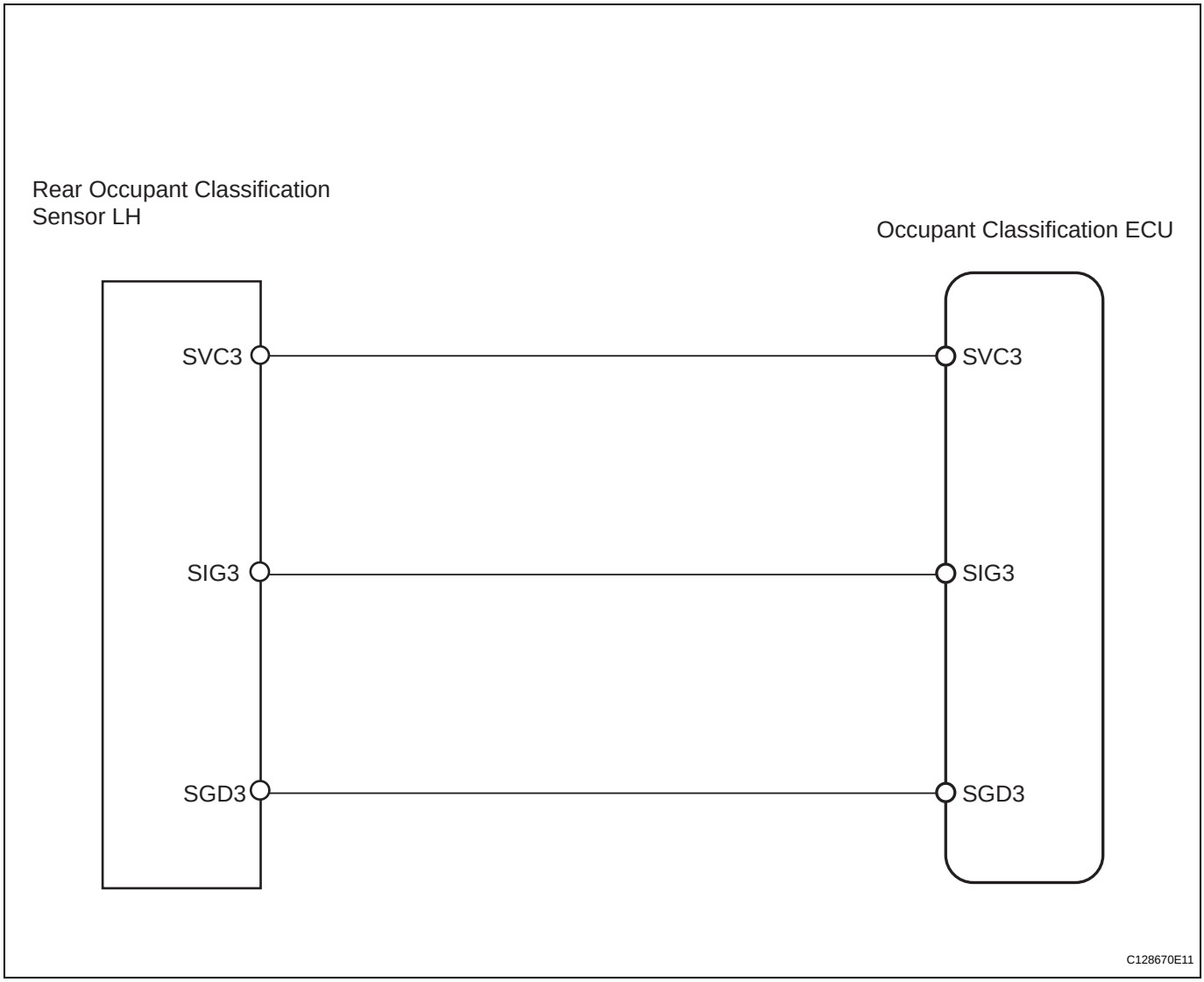
DTC	B1787	Rear Occupant Classification Sensor LH Collision Detection

DESCRIPTION

DTC B1787 is output when the occupant classification ECU receives a collision detection signal sent by the rear occupant classification sensor LH when an accident occurs.
DTC B1787 is also output when the front seat assembly RH is subjected to a strong impact, even if an actual accident does not occur.
However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1787 can be cleared by performing the zero point calibration and sensitivity check.
Therefore, when DTC B1787 is output, first perform the zero point calibration and sensitivity check.

DTC No.	DTC Detection Condition	Trouble Area
B1787	When one of following conditions is met: • Front seat RH malfunction • Occupant classification ECU malfunction • Rear occupant classification sensor LH detects large load	• Occupant classification ECU • Front seat RH (Rear occupant classification sensor LH)

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 PERFORM ZERO POINT CALIBRATION

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 4**

OK

2 PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 4**

OK

3 CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1787 is not output.
HINT:
DTCs other than DTC B1787 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

4 REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat RH (see page SE-27).

HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

5	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 8**

OK

6	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 8**

OK

7	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1787 is not output.
HINT:
DTCs other than DTC B1787 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

RS

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-250).

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

RS

NEXT

END

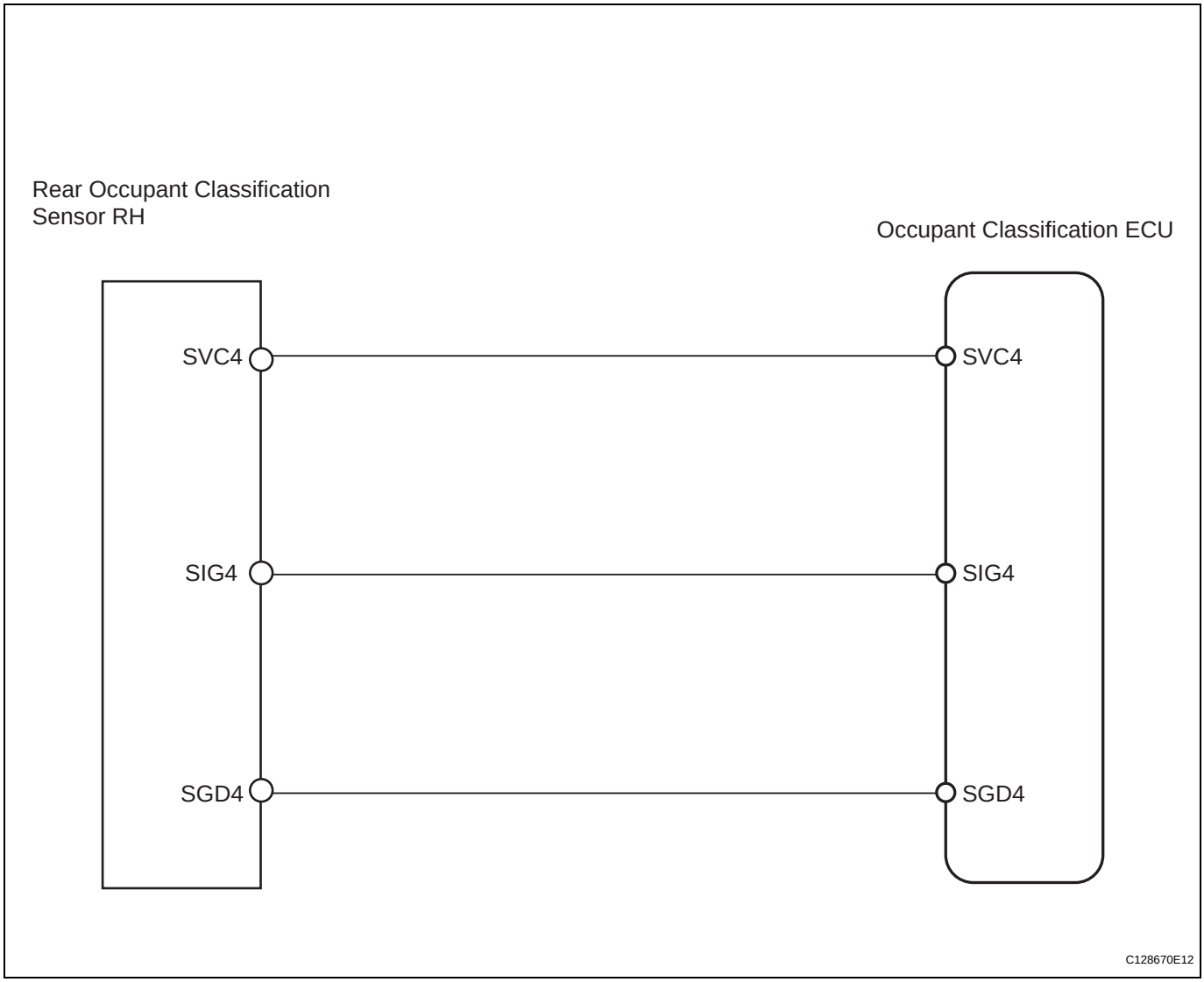
DTC	B1788	Rear Occupant Classification Sensor RH Collision Detection

DESCRIPTION

DTC B1788 is output when the occupant classification ECU receives a collision detection signal sent by the rear occupant classification sensor RH when an accident occurs.
DTC B1788 is also output when the front seat RH is subjected to a strong impact, even if an actual accident does not occur.
However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1788 can be cleared by performing the zero point calibration and sensitivity check.
Therefore, when DTC B1788 is output, first perform the zero point calibration and sensitivity check.

DTC No.	DTC Detection Condition	Trouble Area
B1788	When one of following conditions is met: • Front seat RH malfunction • Occupant classification ECU malfunction • Rear occupant classification sensor RH detects large load	• Occupant classification ECU • Front seat RH (Rear occupant classification sensor RH)

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 PERFORM ZERO POINT CALIBRATION

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 4**

OK ↓

2 PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 4**

OK ↓

3 CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1788 is not output.
HINT:
DTCs other than DTC B1788 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG ↓

4 REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat RH (see page SE-8).

HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

5	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 8**

OK

6	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 8**

OK

7	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1788 is not output.
HINT:
DTCs other than DTC B1788 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

RS

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

RS

NEXT

END

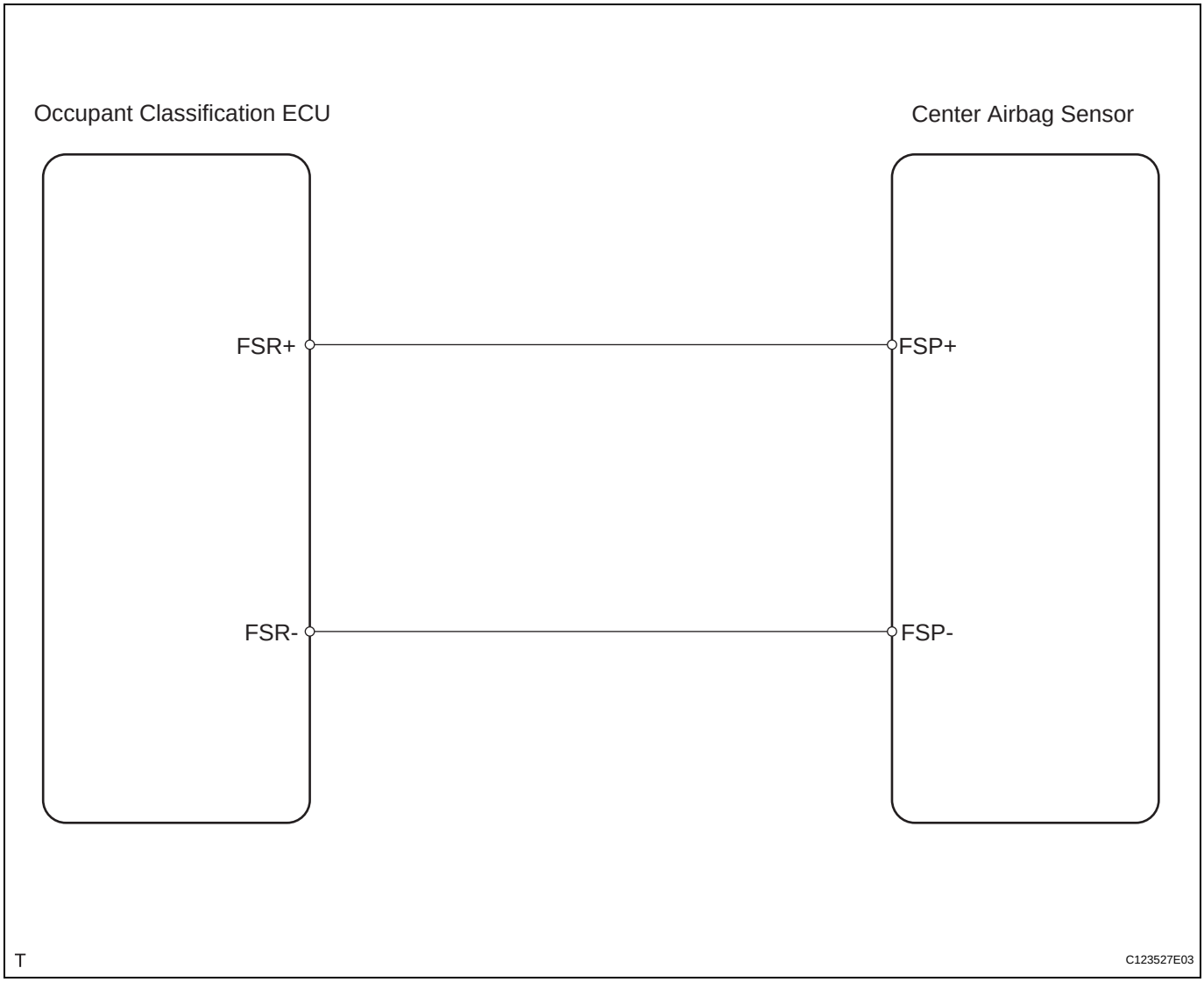
DTC	B1790	Center Airbag Sensor Assembly Communication Circuit Malfunction

DESCRIPTION

The center airbag sensor communication circuit consists of the occupant classification ECU and the center airbag sensor.
DTC B1790 is recorded when a malfunction is detected in the center airbag sensor communication circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1790	When one of following conditions is met: • Occupant classification ECU detects line short circuit signal, open circuit signal, short circuit to ground signal or short circuit to B+ signal in the center airbag sensor assembly communication circuit for 2 seconds • Center airbag sensor malfunction • Occupant classification ECU malfunction	• Floor wire • Occupant classification ECU • Center airbag sensor

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1790 is not output.
HINT:
DTCs other than DTC B1790 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	CHECK CONNECTION OF CONNECTOR

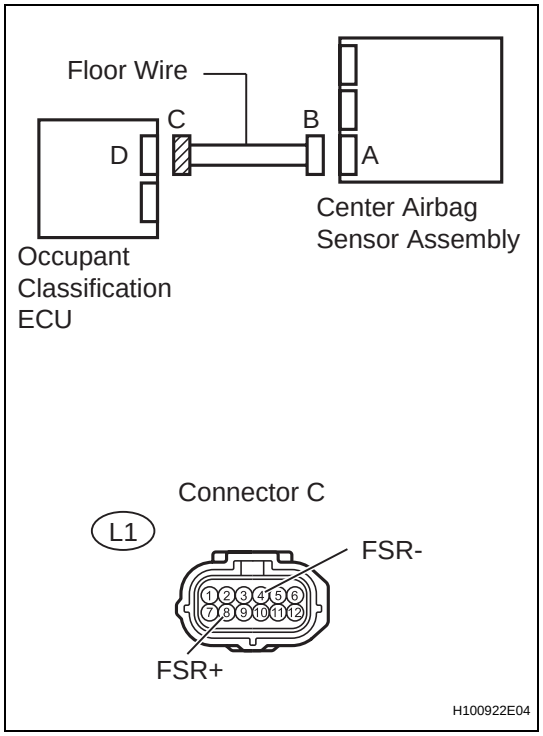
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the center airbag sensor.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

RS

3	CHECK FLOOR WIRE (TO B+)



(a) Disconnect the connectors from the occupant classification ECU and the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.

Standard voltage

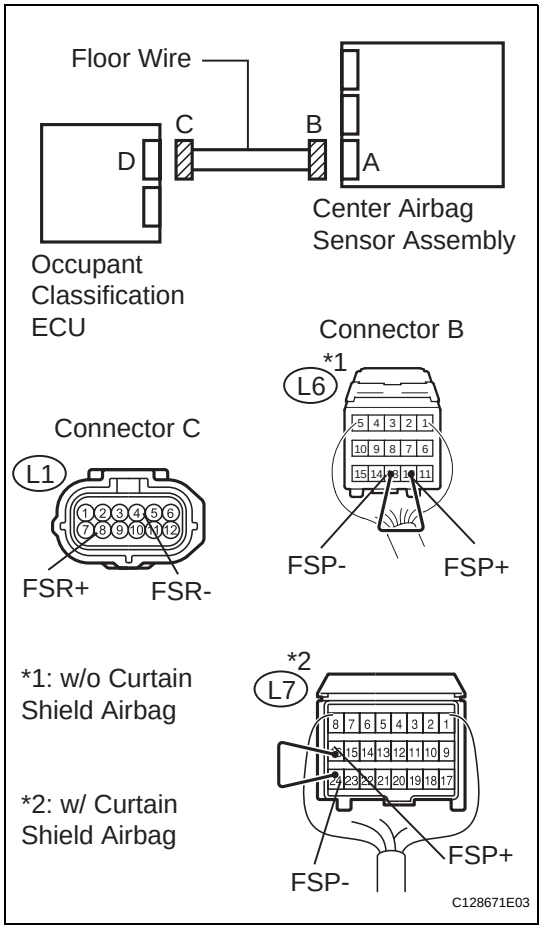
Tester Connection	Specified Condition
L1-8 (FSR+) - Body ground	Below 1 V
L1-4 (FSR-) - Body ground	Below 1 V

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

4	CHECK FLOOR WIRE (FOR OPEN)



(a) Turn the ignition switch OFF.

(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.

(c) Using a service wire, connect terminals L6-12 (FSP+) *1 and L6-13 (FSP-) *1 or L7-16 (FSP+) *2 and L7-24 (FSP-) *2 of connector B.

NOTICE:

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

(d) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
L1-8 (FSR+) - L1-4 (FSR-)	Below 1 Ω

HINT:

*1: w/o Curtain shield airbag

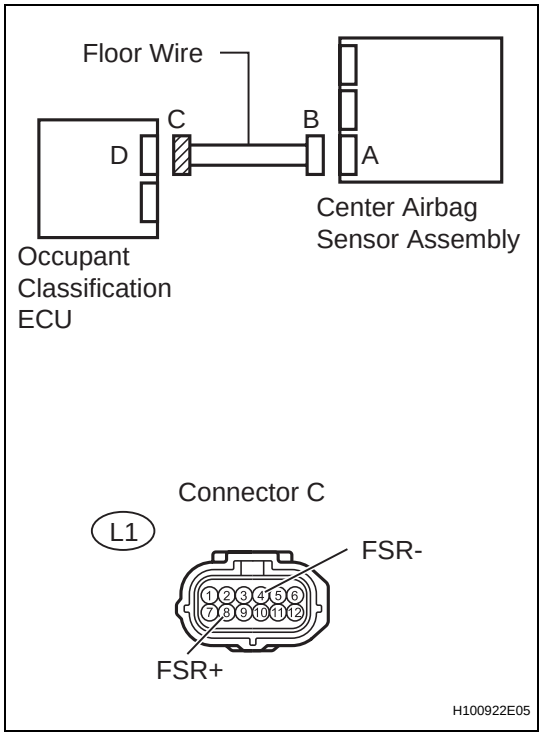
*2: w/ Curtain shield airbag

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

5 CHECK FLOOR WIRE (FOR SHORT)



(a) Disconnect the service wire from connector B.
(b) Measure the resistance of the wire harness side connector.

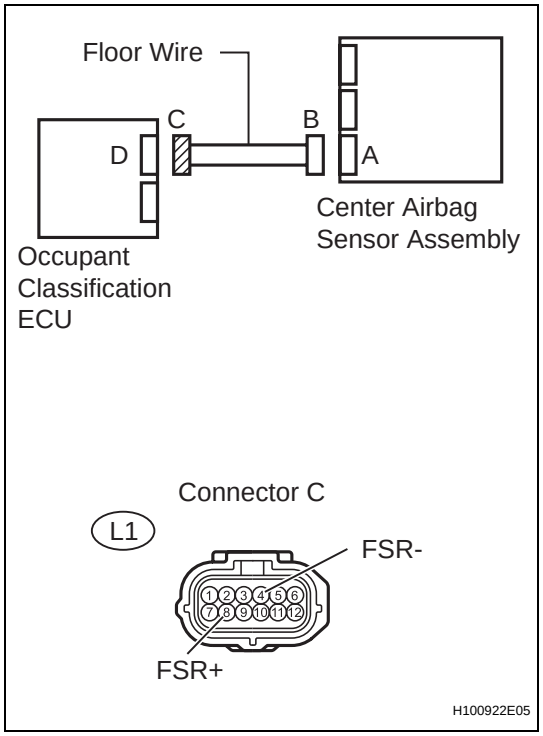
Standard resistance

Tester Connection	Specified Condition
L1-8 (FSR+) - L1-4 (FSR-)	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

6 CHECK FLOOR WIRE (TO GROUND)



(a) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
L1-8 (FSR+) - Body ground	1 MΩ or higher
L1-4 (FSR-) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

RS

7	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the center airbag sensor.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON.
(g) Check the DTCs (see page RS-249).
OK:
DTC B1790 is not output.
HINT:
DTCs other than DTC B1790 may be output at this time, but they are not related to this check.

OK	USE SIMULATION METHOD TO CHECK

NG

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

11	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1790 is not output.
HINT:
DTCs other than DTC B1790 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

END

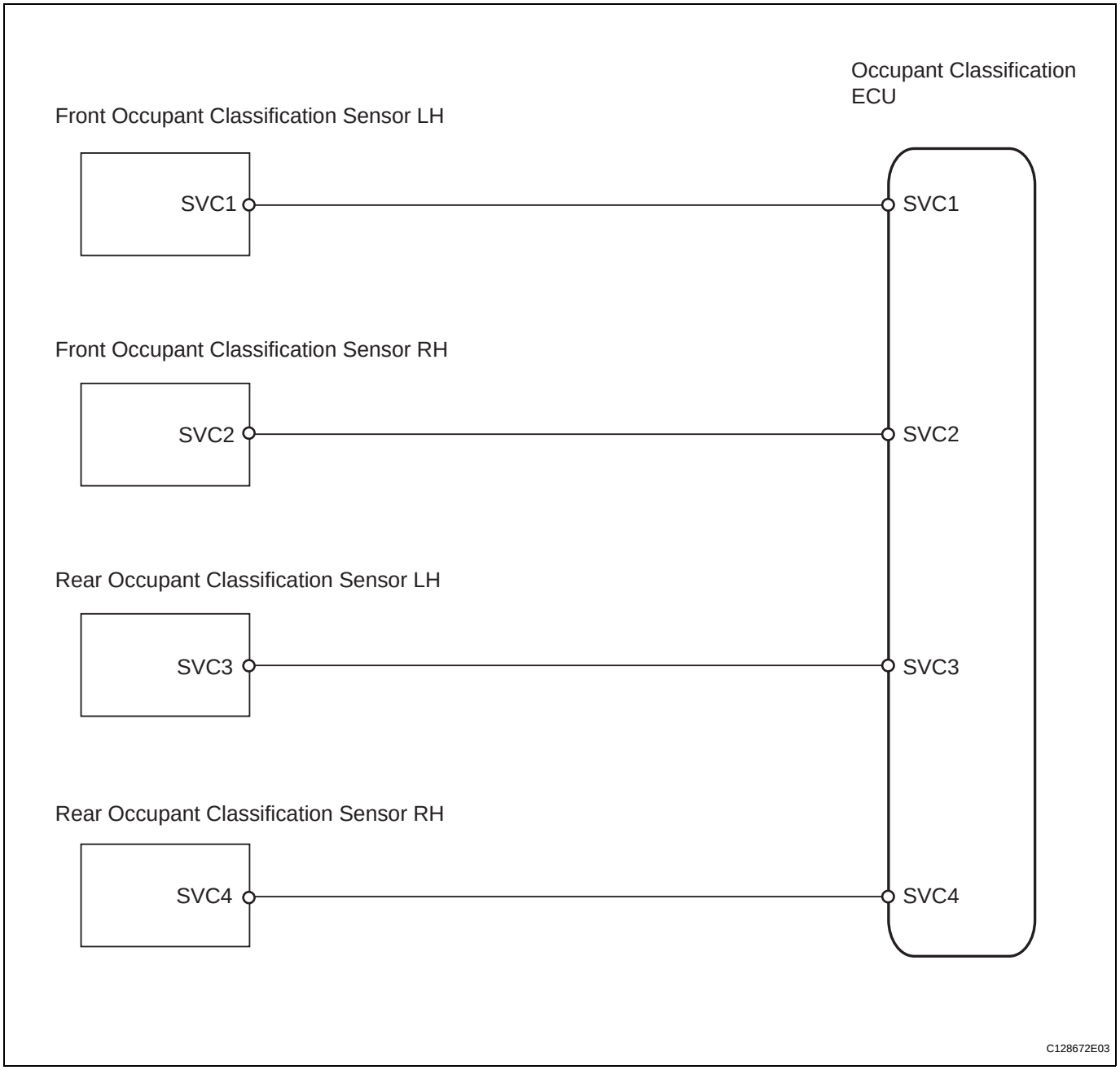
DTC	B1793	Occupant Classification Sensor Power Supply Circuit Malfunction

DESCRIPTION

The occupant classification sensor power supply circuit consists of the occupant classification ECU and the occupant classification sensors.
DTC B1793 is recorded when a malfunction is detected in the occupant classification sensor power supply circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1793	When one of following conditions is met: • Occupant classification ECU detects line short circuit signal, open circuit signal, short circuit to ground signal or short circuit to B+ signal in the occupant classification sensor power supply circuit for 2 seconds • Occupant classification ECU malfunction	• Front seat wire RH • Front seat RH (Occupant classification sensors) • Occupant classification ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the undersurface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1	**CHECK FOR DTC**

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).

RS

HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.

(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1793 is not output.
HINT:
DTCs other than DTC B1793 may be output at this time, but they are not related to this check.

OK	**USE SIMULATION METHOD TO CHECK**

NG

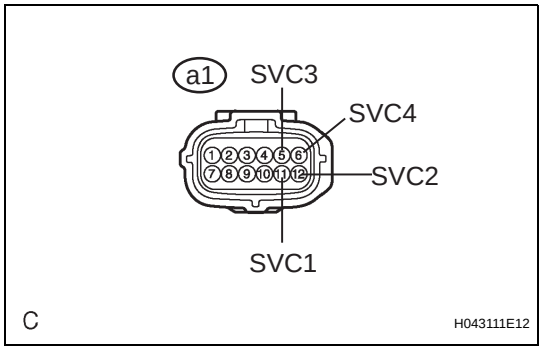
2 CHECK CONNECTION OF CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the occupant classification sensors.
OK:
The connectors are properly connected.

NG	**CONNECT CONNECTOR**

OK

3 CHECK FRONT SEAT WIRE RH (TO B+)



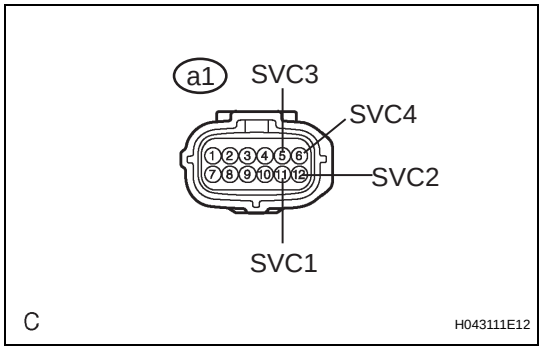
(a) Disconnect the connectors from the occupant classification ECU and the 4 occupant classification sensors.
(b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Specified Condition
a1-11 (SVC1) - Body ground	Below 1 V
a1-12 (SVC2) - Body ground	Below 1 V
a1-5 (SVC3) - Body ground	Below 1 V
a1-6 (SVC4) - Body ground	Below 1 V

NG	**REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

4	CHECK FRONT SEAT WIRE RH (TO GROUND)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Measure the resistance of the wire harness side connector.
Standard resistance

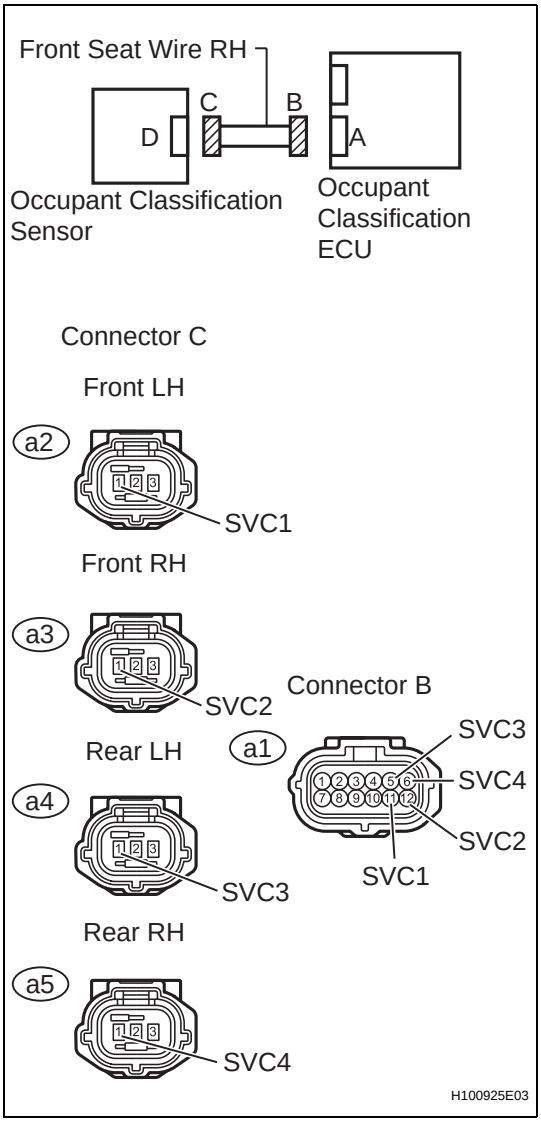
Tester Connection	Specified Condition
a1-11 (SVC1) - Body ground	1 MΩ or higher
a1-12 (SVC2) - Body ground	1 MΩ or higher
a1-5 (SVC3) - Body ground	1 MΩ or higher
a1-6 (SVC4) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

RS

5 CHECK FRONT SEAT WIRE RH (FOR OPEN)



(a) Measure the resistance of the wire harness side connectors.

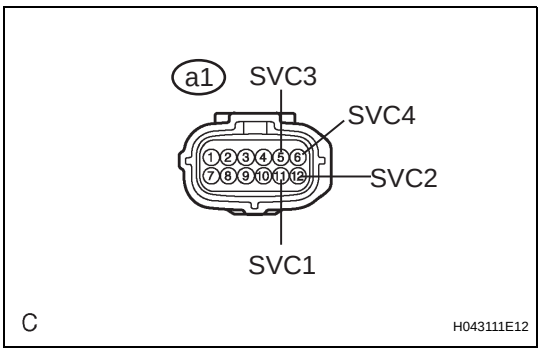
Standard resistance

Tester Connection	Specified Condition
a1-11 (SVC1) - a2-1 (SVC1)	Below 1 Ω
a1-12 (SVC2) - a3-1 (SVC2)	Below 1 Ω
a1-5 (SVC3) - a4-1 (SVC3)	Below 1 Ω
a1-6 (SVC4) - a5-1 (SVC4)	Below 1 Ω

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

6 CHECK FRONT SEAT WIRE RH (FOR SHORT)



(a) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
a1-5 (SVC3) - a1-6 (SVC4)	1 MΩ or higher
a1-6 (SVC4) - a1-11 (SVC1)	1 MΩ or higher
a1-11 (SVC1) - a1-12 (SVC2)	1 MΩ or higher
a1-12 (SVC2) - a1-5 (SVC3)	1 MΩ or higher
a1-12 (SVC2) - a1-6 (SVC4)	1 MΩ or higher
a1-11 (SVC1) - a1-5 (SVC3)	1 MΩ or higher

RS

NG → **REPAIR OR REPLACE FRONT SEAT WIRE RH**

OK

7	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the 4 occupant classification sensors.
(b) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(c) Turn the ignition switch ON.
(d) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(e) Turn the ignition switch OFF.
(f) Turn the ignition switch ON.
(g) Check the DTCs (see page RS-249).
OK:
DTC B1793 is not output.
HINT:
DTCs other than DTC B1793 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

8	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → Go to step 12

OK

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → Go to step 12

OK

11	CHECK FOR DTC

(a) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(b) Turn the ignition switch ON.
(c) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(d) Turn the ignition switch OFF.
(e) Turn the ignition switch ON.
(f) Check the DTCs (see page RS-249).
OK:
DTC B1793 is not output.
HINT:
DTCs other than DTC B1793 may be output at this time, but they are related to this check.

OK → END

NG

12	REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat RH (see page SE-8).

NEXT

13	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.

RS

(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

14	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

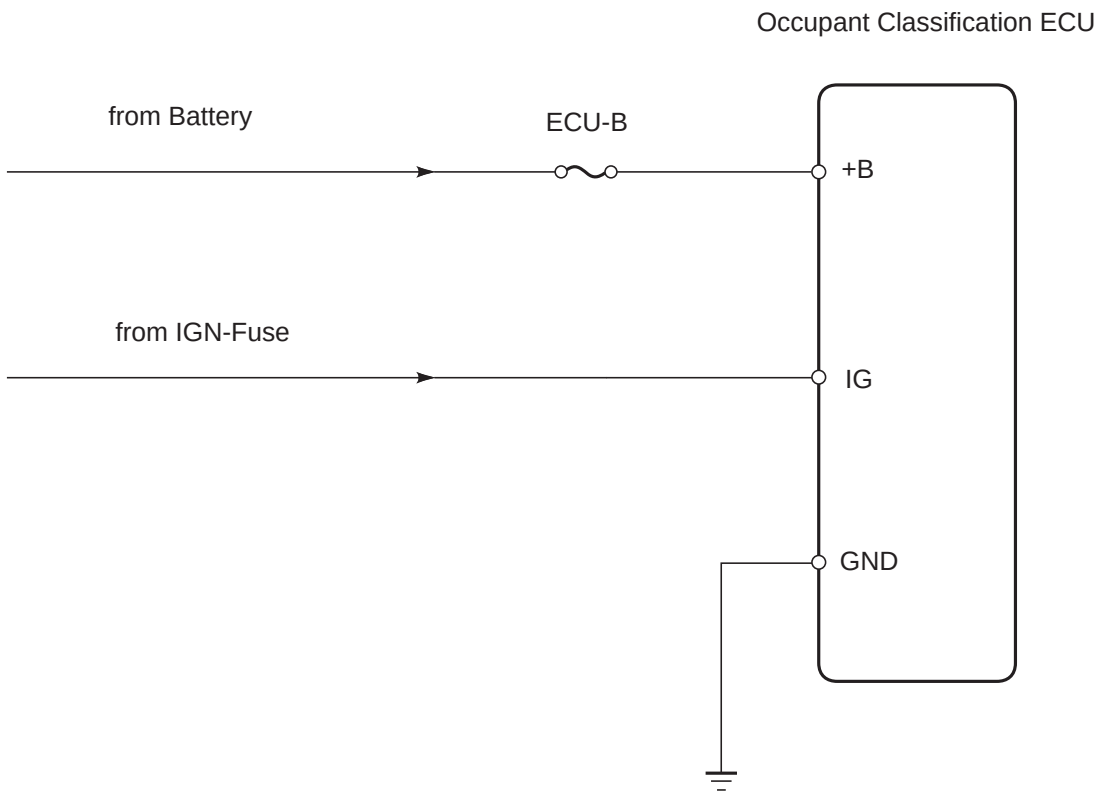
DTC	B1794	Open in Occupant Classification ECU Battery Positive Line

DESCRIPTION

DTC B1794 is set when a malfunction is detected in the occupant classification ECU battery positive line.

DTC No.	DTC Detection Condition	Trouble Area
B1794	When one of following conditions is met: • Occupant classification ECU circuit malfunction • Occupant classification ECU malfunction • Occupant classification ECU detects short circuit to ground signal in passenger side buckle switch circuit for 2 seconds	• Wire harness • Occupant classification ECU

WIRING DIAGRAM



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RS

INSPECTION PROCEDURE

1	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF, and wait for at least 10 seconds.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1794 is not output.
HINT:
DTCs other than B1794 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

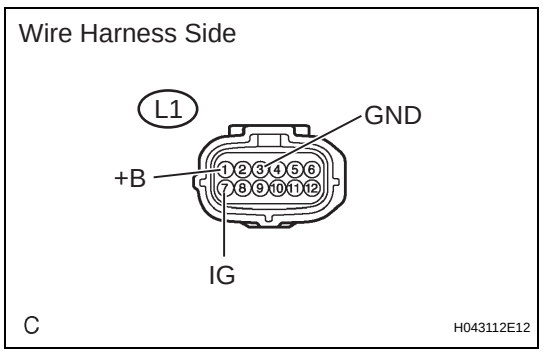
2	CHECK CONNECTION OF CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU.
OK:
The connectors are properly connected.

NG → **CONNECT CONNECTOR**

OK

3	CHECK WIRE HARNESS (SOURCE VOLTAGE)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the L1 connector from the occupant classification ECU.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Condition	Specified Condition
L1-1 (+B) - Body ground	Always	10 to 14 V
L1-7 (IG) - Body ground	Ignition switch ON	10 to 14 V

RS

(f) Measure the resistance of the wire harness side connector.

Standard resistance

Tester Connection	Specified Condition
L1-3 (GND) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR (BATTERY - OCCUPANT CLASSIFICATION ECU)**

OK

4 CHECK FOR DTC

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Connect the connectors to the occupant classification ECU.
(d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(e) Turn the ignition switch ON.
(f) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(g) Turn the ignition switch OFF, and wait for at least 10 seconds.
(h) Turn the ignition switch ON.
(i) Using the intelligent tester, check for DTCs of the occupant classification ECU (see page RS-249).
OK:
DTC B1794 is not output.
HINT:
DTCs other than B1794 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

5 REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle when possible.

NEXT

6	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

7	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

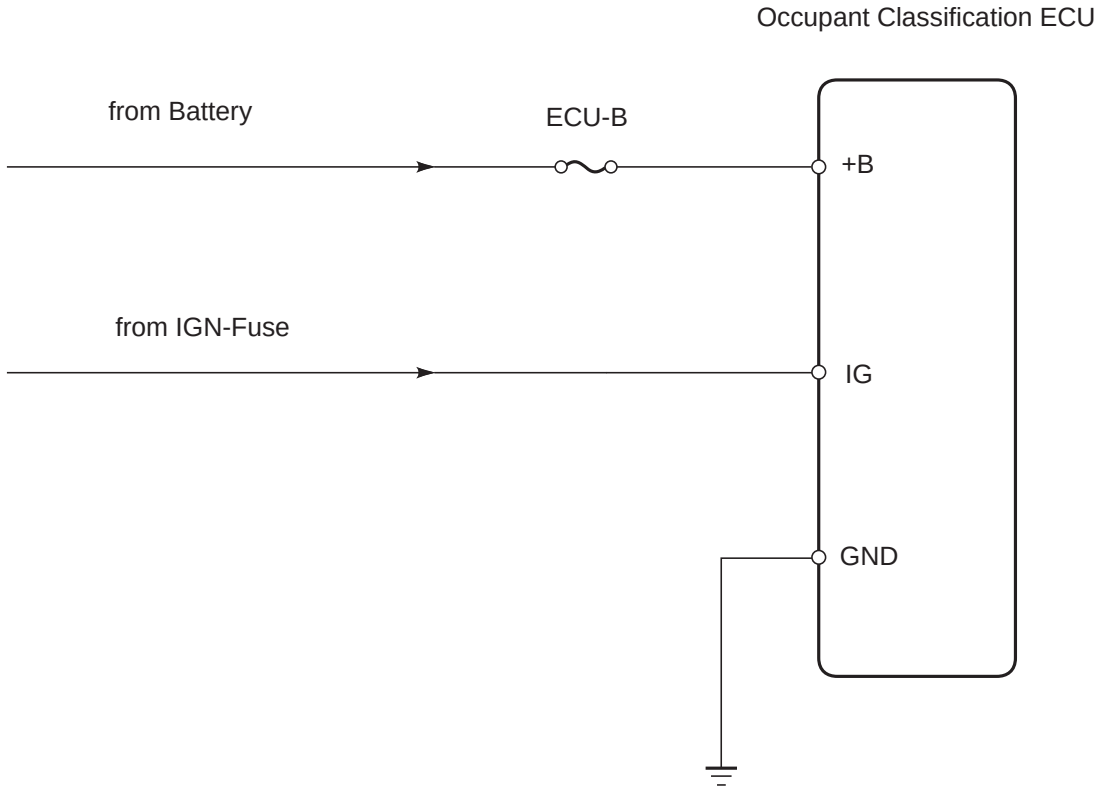
DTC	B1795	Occupant Classification ECU Malfunction

DESCRIPTION

DTC B1795 is recorded when a malfunction is detected in the occupant classification ECU.
Troubleshoot DTC B1771 first when DTC B1771 and B1795 are output simultaneously.

DTC No.	DTC Detection Condition	Trouble Area
B1795	When one of following conditions is met: • The occupant classification ECU receives the ignition switch OFF to ON signal 50 times in a row when a malfunction occurs in the power circuit for the occupant classification ECU (OFF to ON to OFF should be counted as 1 time). • Occupant classification ECU circuit malfunction • The occupant classification ECU receives a short circuit to ground signal in the passenger side buckle switch circuit for 2 seconds. • Occupant classification ECU malfunction	• Battery • ECU-B fuse • Floor wire No.2 • Front seat inner belt RH • Occupant classification ECU

WIRING DIAGRAM



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RS

INSPECTION PROCEDURE

1 CHECK FOR DTC

(a) Turn the ignition switch ON, and wait for at least 10 seconds.
(b) Check the DTCs (see page RS-249).
Result

Result	Proceed to
DTC B1795 is output.	A
DTC B1771 and B1795 are output.	B

HINT:
DTCs other than DTC B1771 and B1795 may be output at this time, but they are not related to this check.

B → **GO TO DTC B1771**

A

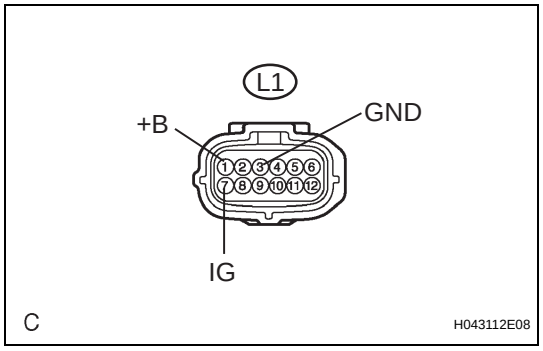
2 CHECK FUSE (ECU-B)

(a) Check the ECU-B fuse from the instrument panel junction block.
(b) Measure the resistance of the fuse.
Standard resistance:
Below 1 Ω

NG → **REPLACE FUSE**

OK

3 CHECK WIRE HARNESS (SOURCE VOLTAGE)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the No. 2 floor wire connector from the occupant classification ECU.
(d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(e) Measure the voltage of the wire harness side connector.
Standard voltage

Tester Connection	Condition	Specified Condition
L1-1 (+B) - Body ground	Always	10 to 14 V
L1-7 (IG) - Body ground	Ignition switch ON	10 to 14 V

(f) Turn the ignition switch OFF.
(g) Measure the resistance of the wire harness side connector.
Standard resistance

Tester Connection	Specified Condition
L1-3 (GND) - Body ground	Below 1 Ω

RS

NG → **REPAIR OR REPLACE WIRE HARNESS**

OK

4	**REPLACE OCCUPANT CLASSIFICATION ECU**

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

5	**PERFORM ZERO POINT CALIBRATION**

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

RS

6	**PERFORM SENSITIVITY CHECK**

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

DTC	B1796	Sleep Operation Failure of Occupant Classification ECU

DESCRIPTION

During sleep mode, the occupant classification ECU reads the condition of each sensor while the ignition switch is OFF.
In this mode, if the occupant classification ECU detects an internal malfunction, DTC B1796 is output.

DTC No.	DTC Detection Condition	Trouble Area
B1796	Occupant classification ECU malfunction	Occupant classification ECU

INSPECTION PROCEDURE

1 CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
(c) Turn the ignition switch OFF, and wait for at least 2 seconds.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
DTC B1796 is not output.
HINT:
DTCs other than DTC B1796 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2 REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).
HINT:
Perform the inspection using parts from a normal vehicle if possible.

NEXT

3 PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.

(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

4	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

END

Trouble in Passenger Airbag ON / OFF Indicator

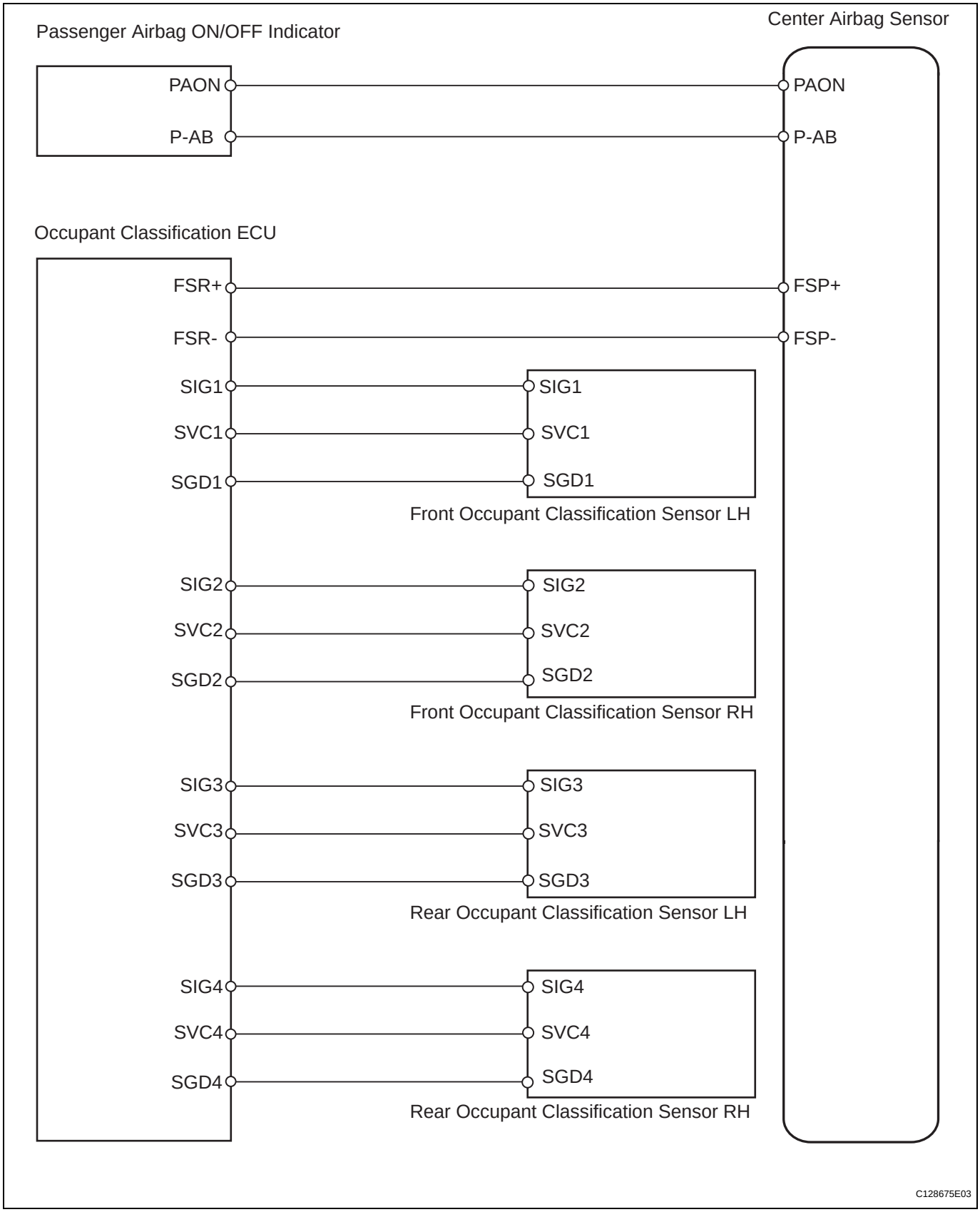
DESCRIPTION

The occupant classification system detects the front passenger seat condition and then indicates whether the front passenger airbag is activated or not through the passenger airbag ON / OFF indicator illumination.

The passenger airbag ON / OFF indicator illumination changes depending on the front passenger seat condition as shown in the table below.

Front Passenger Seat Condition	ON Indicator	OFF Indicator
Adult is seated	ON	OFF
Child is seated	OFF	ON
Vacant	OFF	OFF
Occupant classification system failure	OFF	ON

WIRING DIAGRAM



RS

INSPECTION PROCEDURE

1 CHECK SRS WARNING LIGHT

(a) Turn the ignition switch ON, and check the SRS warning light condition.
OK:
The SRS warning light does not come on.

NG → **Go to step 9**

OK

2 CHECK PASSENGER AIRBAG ON/OFF INDICATOR CONDITION

(a) Turn the ignition switch ON.
(b) Check if the passenger airbag ON / OFF indicator correctly indicates the front passenger seat condition.

OK

Front Passenger Seat Condition	ON Indicator	OFF Indicator
Adult is seated	ON	OFF
Child is seated	OFF	ON
Vacant	OFF	OFF
Occupant classification system failure	OFF	ON

OK → **END**

NG

3 PERFORM ZERO POINT CALIBRATION

(a) Turn the ignition switch OFF.
(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 5**

OK

4 PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 5**

RS

OK

END

5	RETIGHTEN FRONT SEAT ASSEMBLY RH BOLT

(a) Turn the ignition switch OFF.
(b) Loosen the 4 installation bolts of the front seat RH.
(c) Tighten the 4 installation bolts of the front seat RH to the specified torque (see page SE-22).
Torque:
37 N*m{ 377 kgf*cm , 27 ft.*lbf }

NG → **Go to step 8**

OK

6	PERFORM ZERO POINT CALIBRATION

(a) Connect the intelligent tester (with CAN VIM) to the DLC3.
(b) Turn the ignition switch ON.
(c) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NG → **Go to step 8**

OK

RS

7	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 8**

OK

8	CHECK CONNECTOR

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Check that the connectors are properly connected to the occupant classification ECU and the 4 occupant classification sensors.

OK:

The connectors are connected.

(d) Disconnect the connectors from the occupant classification ECU and the 4 occupant classification sensors.

(e) Check that the connectors are not damaged or deformed.

OK:

The connectors are normal.

NG → **REPAIR OR REPLACE WIRE HARNESS AND CONNECTOR**

OK

9	CHECK FOR DTC

(a) Connect the connectors to the occupant classification ECU and the 4 occupant classification sensors.

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

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

(d) Turn the ignition switch OFF.

(e) Clear the DTCs (see page RS-249).

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

(g) Check the DTCs (see page RS-249).

OK:

DTC is not output.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

10	REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch OFF.

(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.

(c) Replace the occupant classification ECU (see page RS-392).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

11	PERFORM ZERO POINT CALIBRATION

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

(b) Connect the intelligent tester (with CAN VIM) to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
COMPLETED is displayed.

NEXT

12	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
27 to 33 kg (59.52 to 72.75 lb)

NEXT

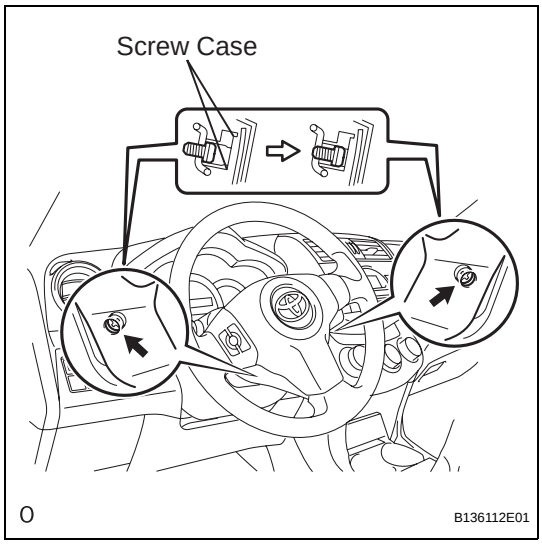
END

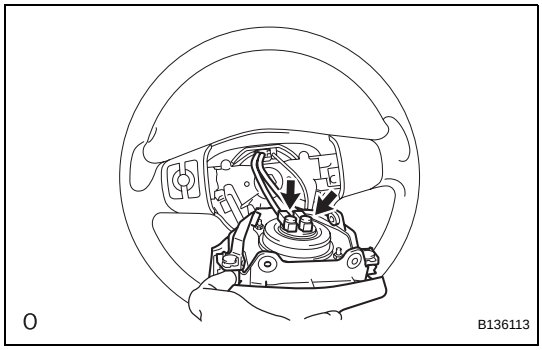
REMOVAL

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" driver, loosen the 2 screws until the groove along each screw circumference catches on the screw case.



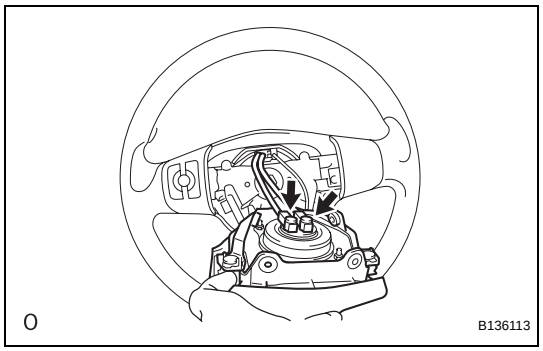


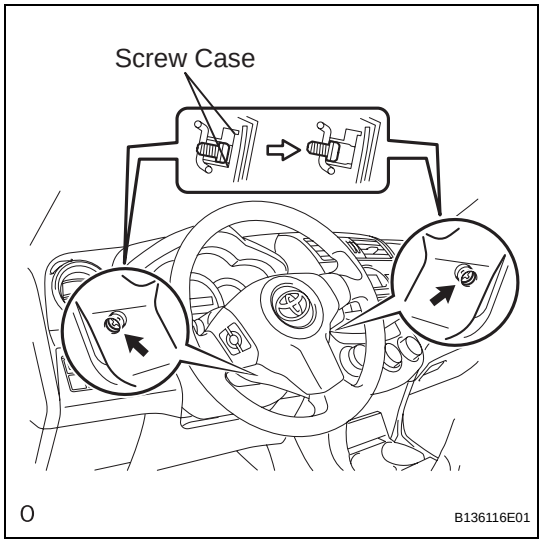
   (c) Pull out the steering pad from the steering wheel and support the steering pad with one hand as shown in the illustration.
   NOTICE:
   When removing the steering pad, do not pull the airbag wire harness.
   (d) Using a screwdriver, disconnect the 2 airbag connectors.
   CAUTION:
   When handling the airbag connector, do not damage the airbag wire harness.
   (e) Disconnect the horn connector and remove the steering pad.

RS

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" driver, 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. CHECK SRS WARNING LIGHT

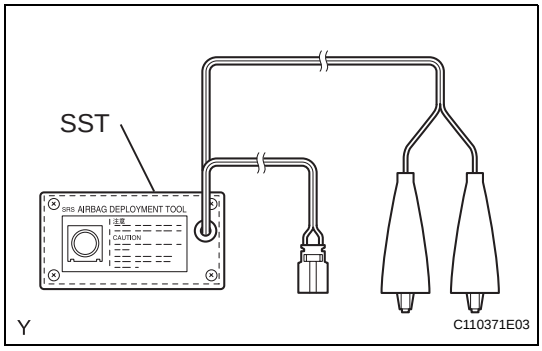
(a) Check the SRS warning light (see page RS-34).

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.**

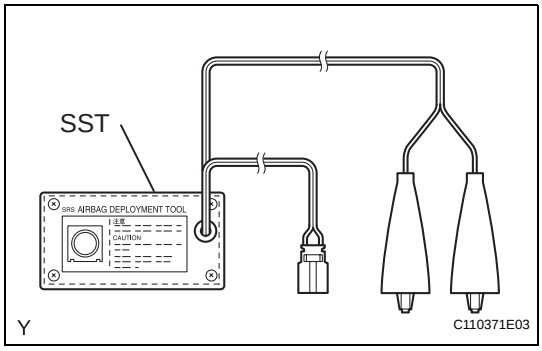


1. DISPOSE OF STEERING PAD ASSEMBLY TOGETHER WITH VEHICLE

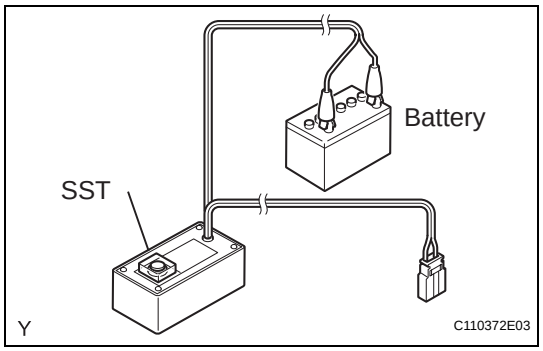
SST 09082-00700, 09082-00780, 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)

HINT:
Prepare a battery as the power source to deploy the airbag.

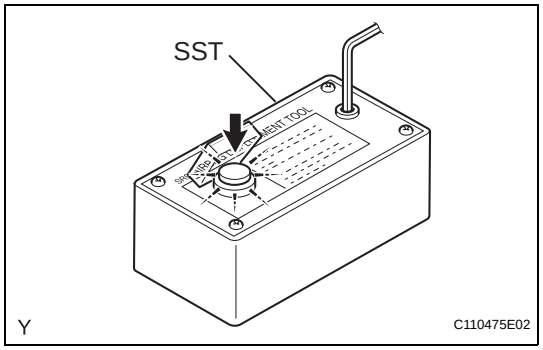
(a) Check if SST is functioning properly.
SST 09082-00700



RS



(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.



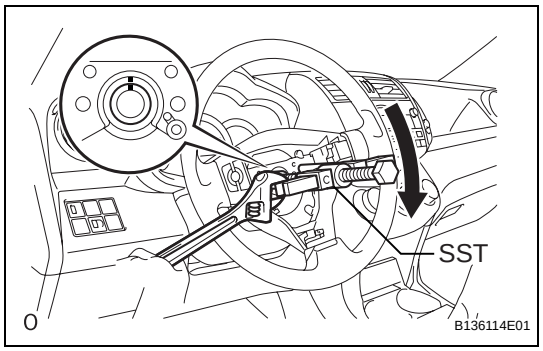
(2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.
CAUTION:
If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.

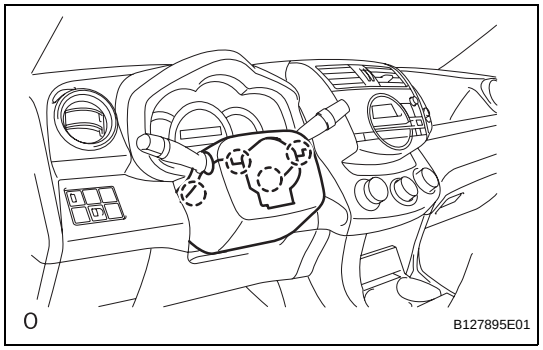
(3) Disconnect SST from the battery.

(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.

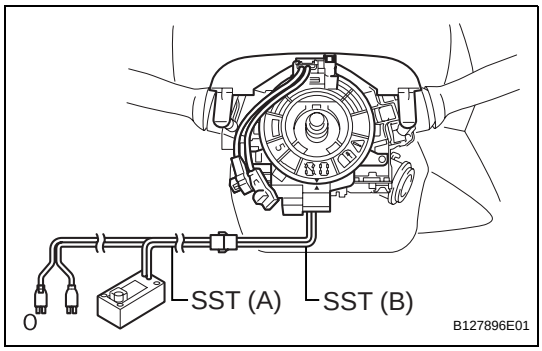
(d) Remove the steering column cover (lower).
(1) Remove the steering pad (see page RS-336).
(2) Remove the steering wheel set nut.
(3) Put matchmarks on the steering wheel and main shaft.
(4) Using SST, remove the steering wheel.
SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)

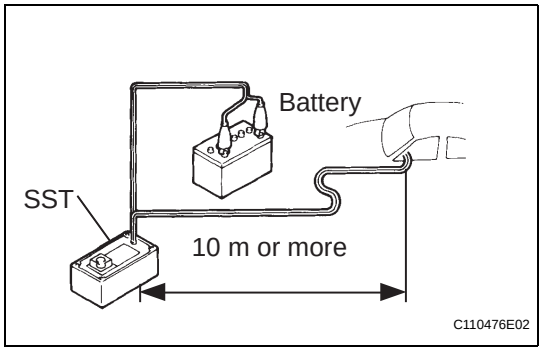




(5) Detach the 4 claws.

RS





(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) Maintaining enough clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.

NOTICE:

Take care not do damage the SST wire harness.

(5) Connect the SST's 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:

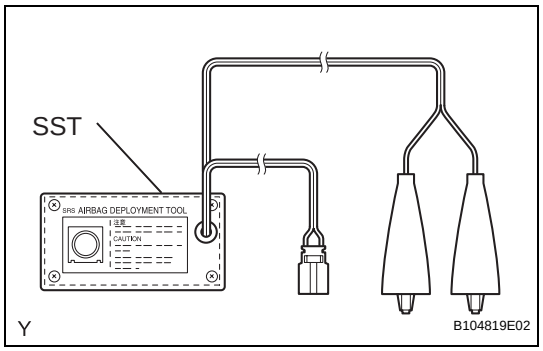
The airbag is deployed as the SST activation switch LED illuminates.

2. DISPOSE OF ONLY STEERING PAD ASSEMBLY

NOTICE:

- **When disposing of the steering pad, never use the customer's vehicle to deploy the airbag.**

RS

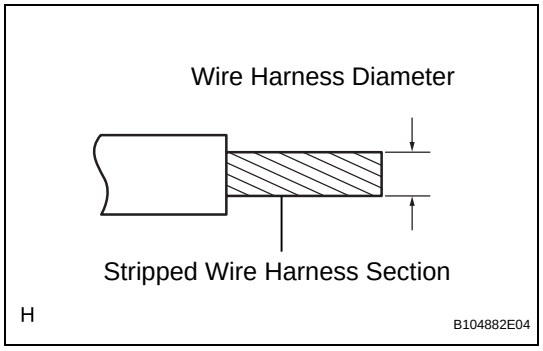


- **Be sure to follow the procedure detailed below when deploying the airbag.**

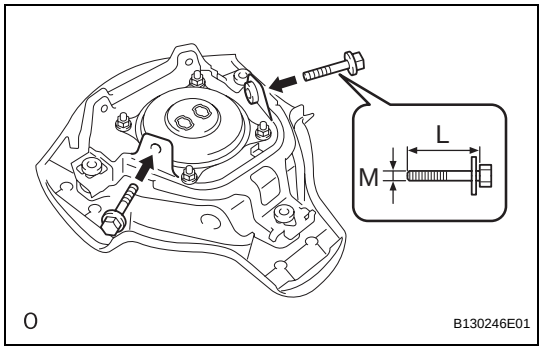
HINT:
Prepare a battery as the power source to deploy the airbag.

(a) Check if SST is functioning properly (see previous step).

(b) Remove the steering pad (see page RS-336).
CAUTION:
- **When removing the steering pad, work must be started 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.**

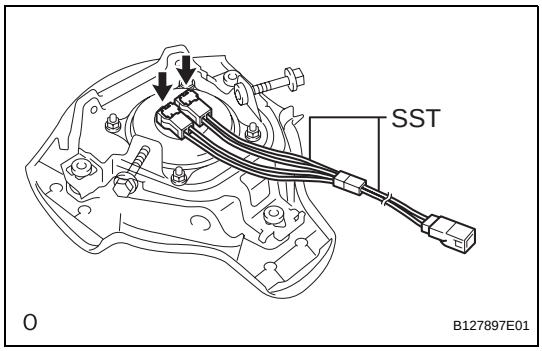


(c) Using service wire harnesses for the vehicle, tie down the steering pad to a disc wheel (with tire).
Wire harness:
Stripped wire harness section
1.25 mm^2 or more (0.0019 $in.^2$ or more)
NOTICE:
Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage 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 $Diameter^2/4$

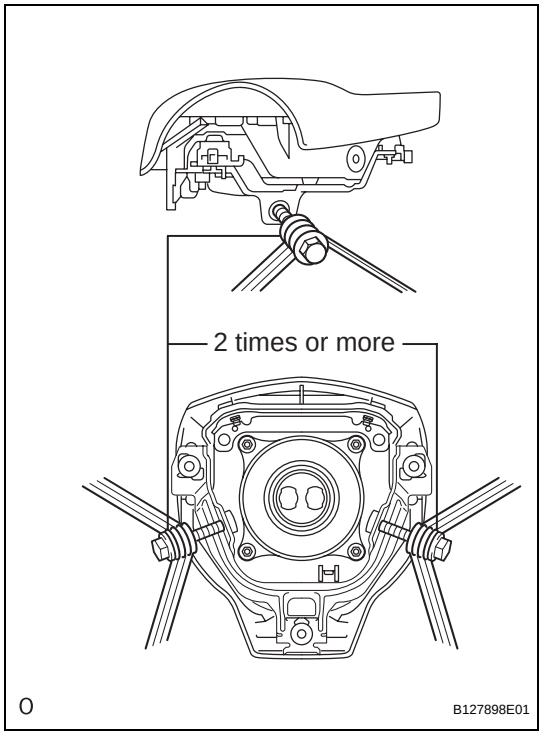


(1) Install the 2 bolts with washers into the 2 bolt holes of the steering pad.
Bolt:
L:
35.0 mm (1.378 in.)
M:
6.0 mm (0.236 in.)
Pitch:
1.0 mm (0.039 in.)
NOTICE:
- **Tighten the bolts by hand until they become difficult to turn.**
- **Do not tighten the bolts excessively.**

RS

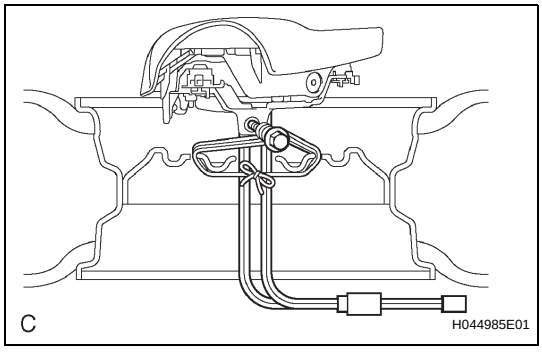


(2) After connecting SST to each other, connect them to the steering pad.
SST 09082-00802 (09082-10801, 09082-30801)

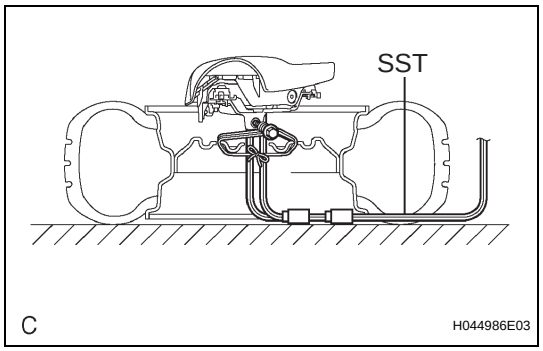


(3) Wind 3 wire harnesses at least twice around the bolts installed on the left and right sides of the steering pad.
CAUTION:
- **Tightly wind the wire harnesses around the bolts so that there is no slack.**
- **Make sure that the wire harnesses are tight. If there is slack in a wire harness, the steering pad may come loose when the airbag is deployed.**

RS



(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.

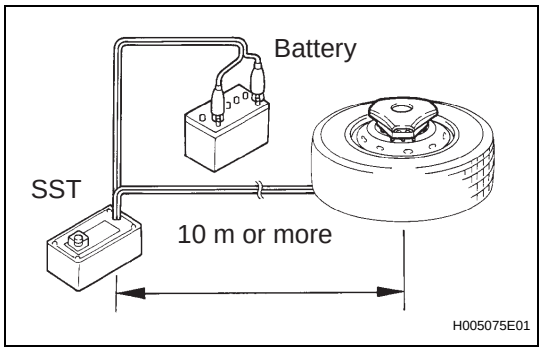
(1) Connect the connector of SST.

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:

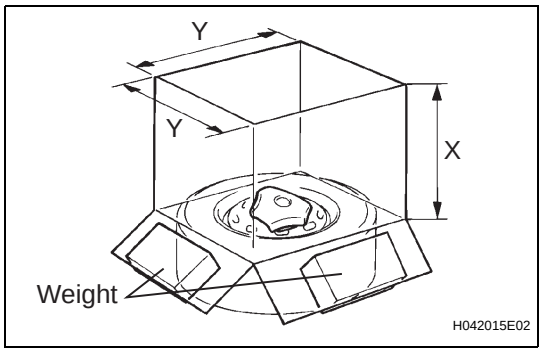
X minimum = 460 mm (18.11 in.)

Y minimum = 650 mm (25.59 in.)

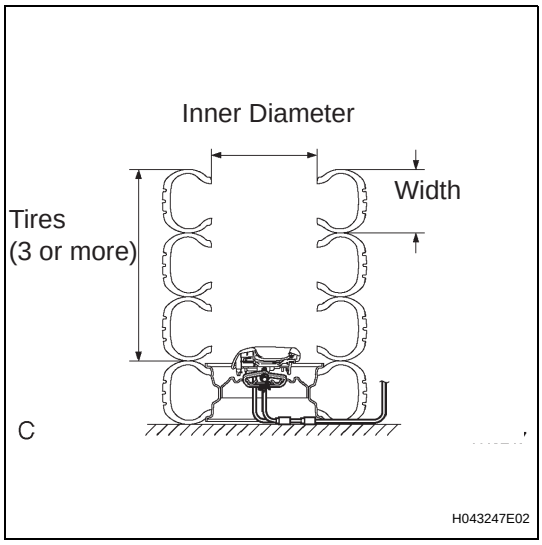
NOTICE:

- **When dimension Y of the cardboard box exceeds the tire dimension, X should be the following size.**

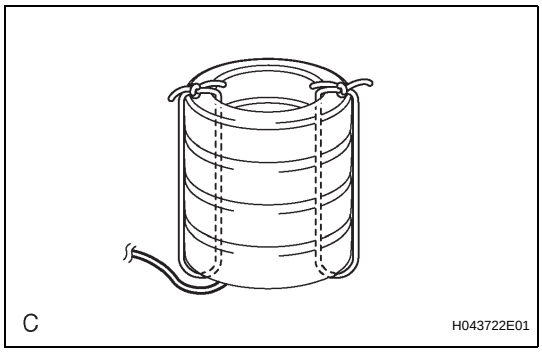
  X minimum = 460 mm (18.11 in.) + width of tire
- **If using a cardboard box which is smaller than the specified size, the cardboard box will break during airbag deployment.**



RS

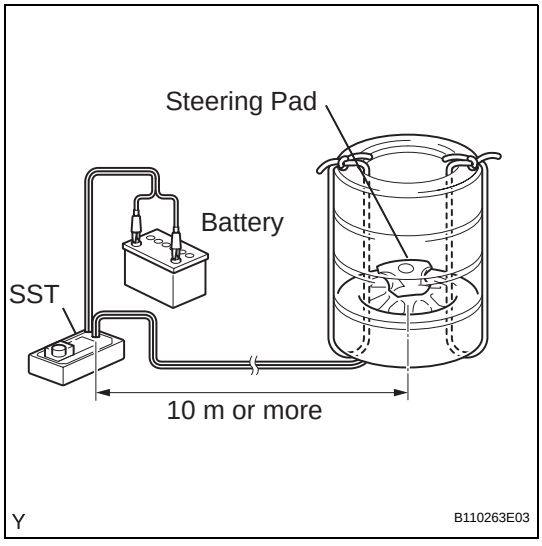


(2) Covering method using tires:
Place at least 3 tires (without disc wheels) on top of the tire (with disc wheel and steering pad).
Tire size:
Width minimum:
185 mm (7.28 in.)
Inner diameter minimum:
360 mm (14.17 in.)
CAUTION:
Do not use tires with disc wheels to cover the tire (with disc wheel and 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.**

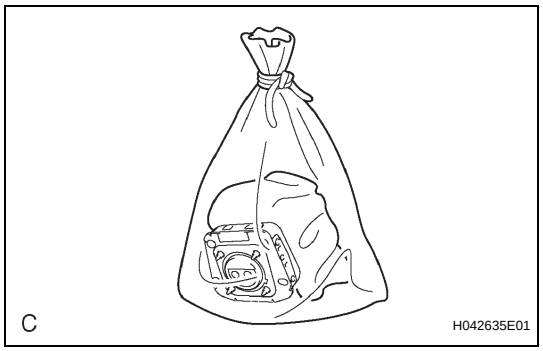


(3) Tie the tires together with 2 wire harnesses.
CAUTION:
Make sure that the wire harnesses are tight. If there is slack in a wire harness, the tires may come loose when the airbag is deployed.

(f) Deploy the airbag.
(1) Connect the SST's 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.



RS



(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.

INSPECTION

1. INSPECT SPIRAL CABLE SUB-ASSEMBLY

(a) Check that there are no scratches or cracks on its connector, and/or that the cable does not have cracks, dents or chipping.

INSTALLATION

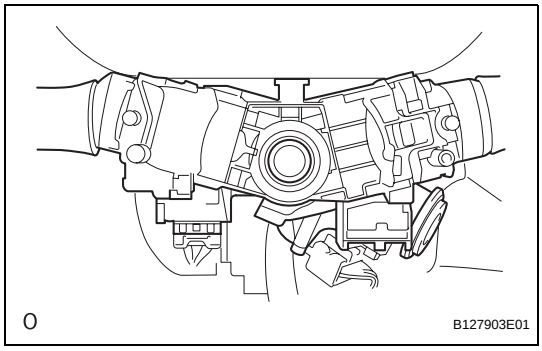
CAUTION:
Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).

1. INSTALL SPIRAL CABLE SUB-ASSEMBLY

(a) Check that the front wheels are facing straight ahead.

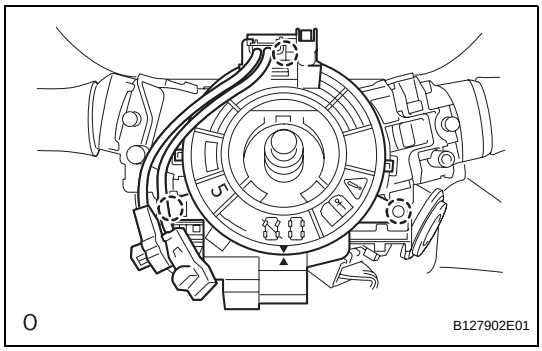
(b) Set the turn signal switch to the neutral position.
NOTICE:
Make sure that the turn signal switch is in the neutral position, as the pin of the turn signal switch may be snapped.

(c) Install the spiral cable.

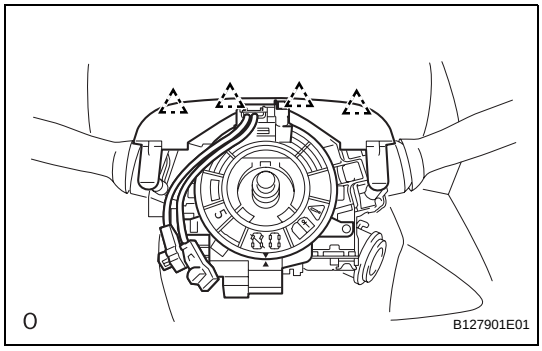


NOTICE:
When replacing the spiral cable with a new one, remove the lock pin before installing the steering wheel.

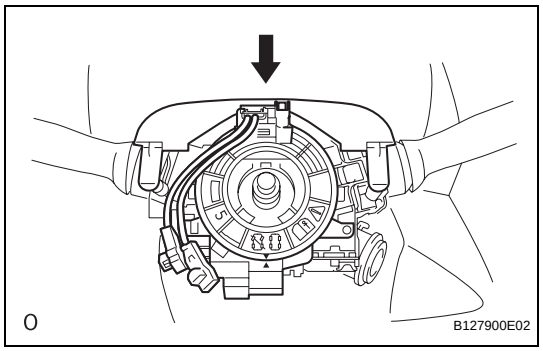
(d) Connect the connectors to the spiral cable.
NOTICE:
When handling the airbag connector, do not damage the airbag wire harness.



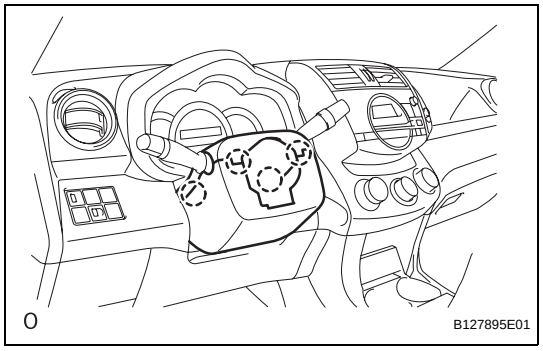
(e) Attach the 4 clips to the column cover (upper).



RS

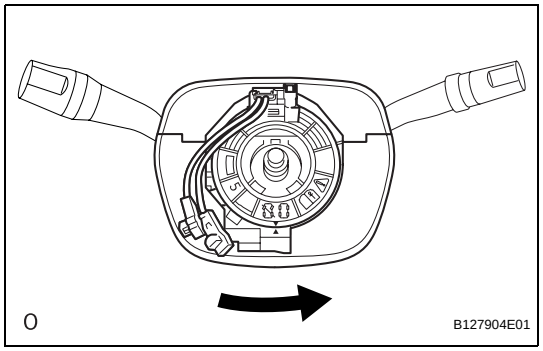


(f) Install the steering column cover (upper).



2. INSTALL STEERING COLUMN COVER (LOWER)

(a) Attach the 4 claws.

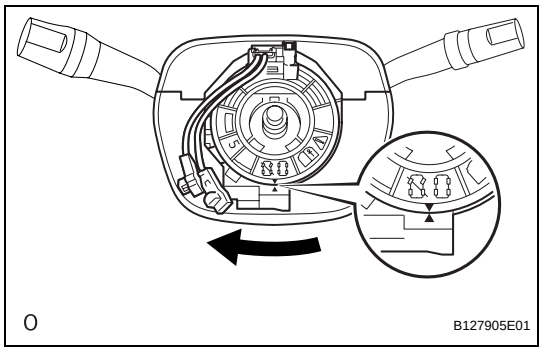


3. POSITION SPIRAL CABLE

(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 (See page SR-21)

5. INSTALL STEERING PAD ASSEMBLY (See page RS-336)

6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

7. INSPECT STEERING PAD ASSEMBLY (See page RS-337)

8. CHECK SRS WARNING LIGHT

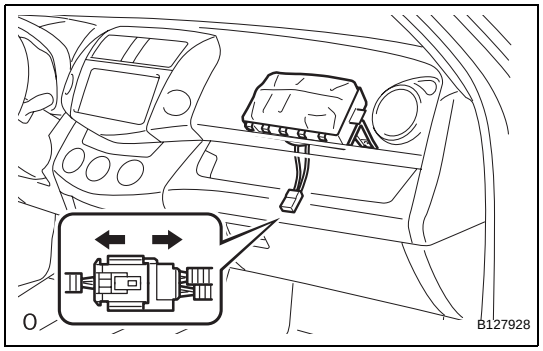
(a) Check the SRS warning light (see page RS-34).

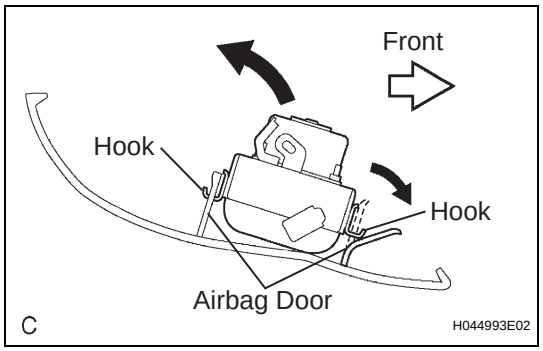
9. INSPECT STEERING WHEEL POSITION

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-20)**
3. **REMOVE FRONT PASSENGER AIRBAG ASSEMBLY**
   (a) Detach the wire harness clamp from bracket.
   (b) Disconnect the connector from the airbag.
   NOTICE:
   When handling the airbag connector, do not damage the airbag wire harness.
   (c) Remove the 2 bolts from the reinforcement.
   (d) Remove the instrument panel upper (see page IP-6).



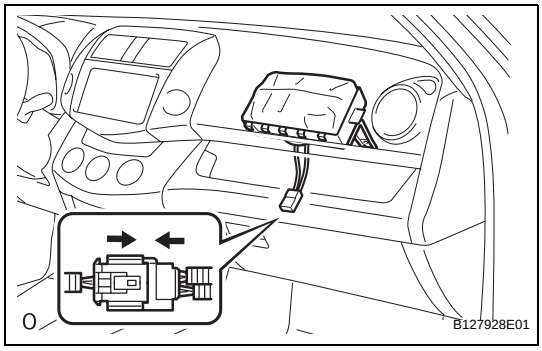


   (e) Release the front side airbag door from the front side hook by slightly bending it and lift out the front passenger airbag rearward.
   (f) Release the rear side airbag door from the other hook and remove the front passenger airbag.

RS

INSTALLATION

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



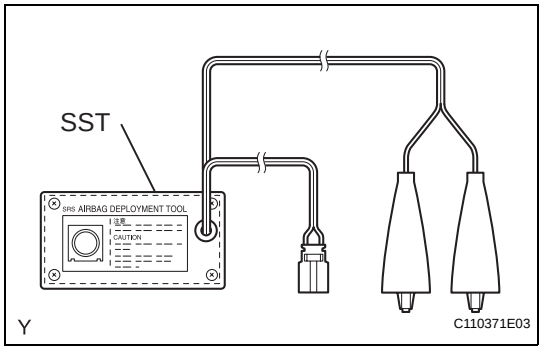
1. **INSTALL FRONT PASSENGER AIRBAG ASSEMBLY**
   (a) Attach the rear side hook of the front passenger airbag to the rear side airbag door.
   (b) Bend the front side hook so that it attaches to the front side airbag door.
   (c) Install the instrument panel upper (see page IP-9).
   (d) Install the 2 bolts to the reinforcement.
   Torque: 20 N*m (203 kgf*cm, 14 ft.*lbf)
   (e) Connect the connector to the airbag.
   NOTICE:
   When handling the airbag connector, do not damage the airbag wire harness.
   (f) Attach the wire harness clamp to the bracket.
2. **INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY (See page IP-9)**
3. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
4. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-34).

DISPOSAL

HINT:
When scrapping a vehicle equipped with an SRS or disposing of the front passenger side knee airbag, 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.**

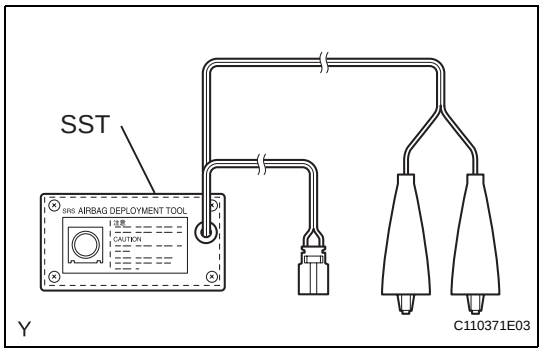


1. DISPOSE OF FRONT PASSENGER AIRBAG ASSEMBLY TOGETHER WITH VEHICLE

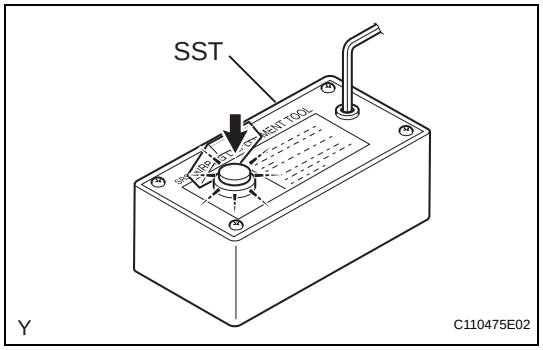
HINT:
Prepare a battery as the power source to deploy the airbag.

(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.

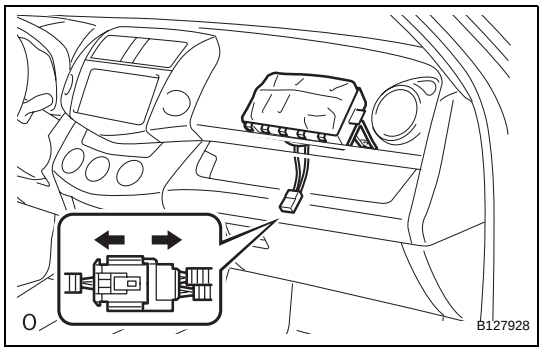
(b) Follow the "Precaution" (see page RS-1).

RS

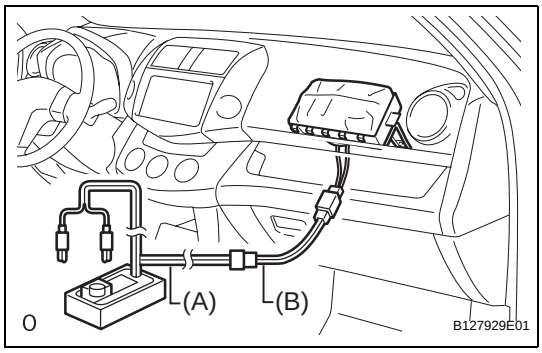
(c) Disconnect the cable from the negative (-) battery terminal.
CAUTION:
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

(d) Remove the glove compartment door (see page IP-6).

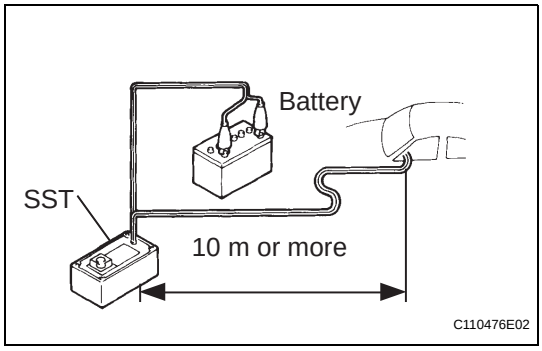
(e) Install SST.



(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) Maintaining enough clearance for the SST wire harness in the front side window, close all doors and windows of the vehicle.
NOTICE:
Take care not to damage the SST wire harness.

(5) Connect the SST's 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.**

RS

- **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

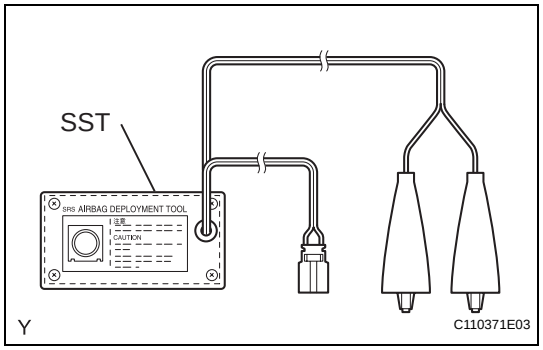
NOTICE:

- **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.**

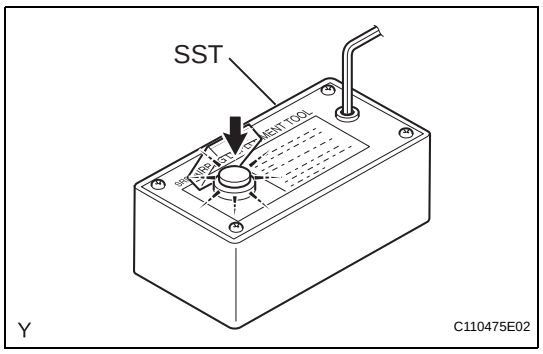
HINT:
Prepare a battery as the power source to deploy the airbag.

(a) Check if SST is functioning properly.
SST 09082-00700

(1) Connect the SST'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.

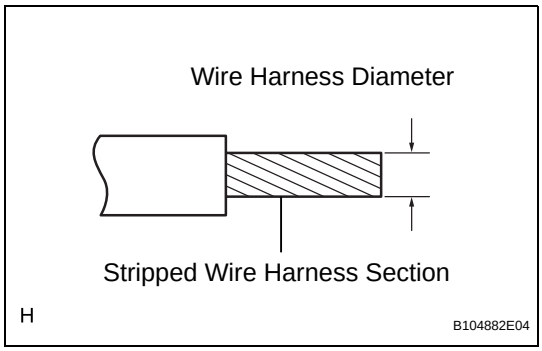


(3) Disconnect SST from the battery.

(b) Remove the front passenger airbag (see page RS-350).
CAUTION:

- **When removing the airbag, work must be started 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.**

RS



(c) Using service wire harnesses for the vehicle, tie down the airbag to a tire.

Wire harness:

Stripped wire harness section

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. 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:

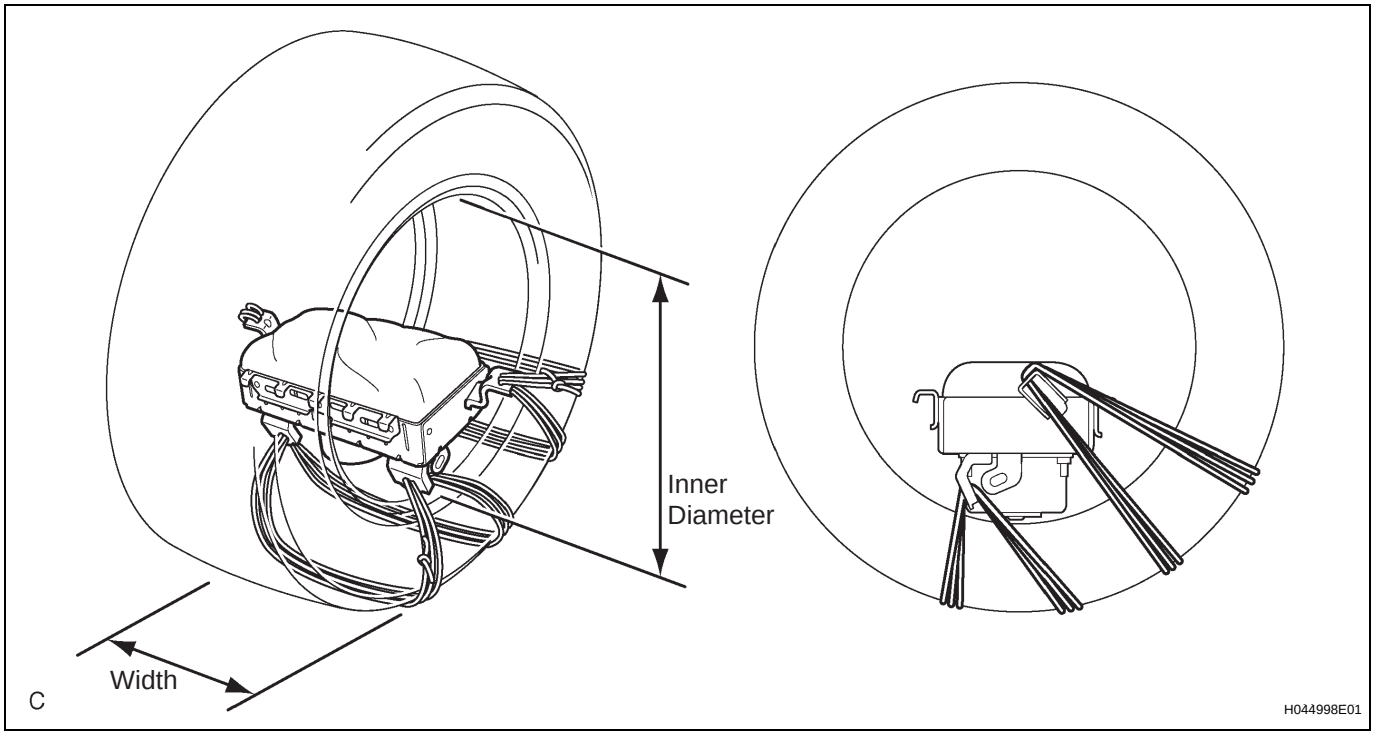
Width minimum:

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.

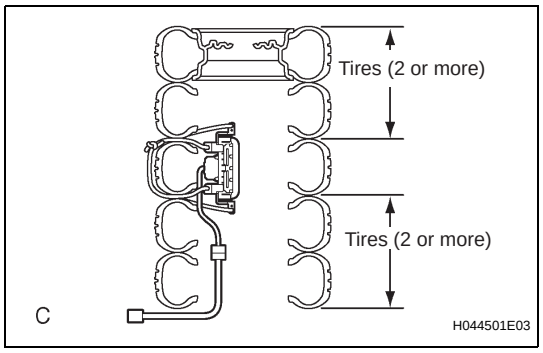


CAUTION:

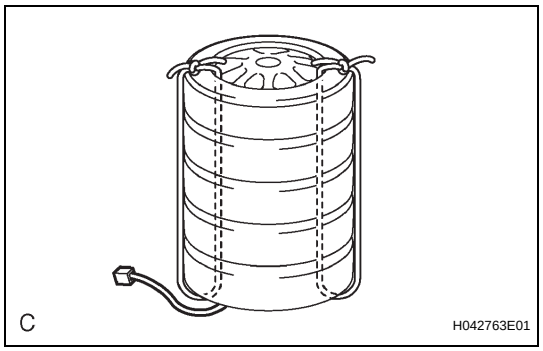
- **Tightly wind the wire harnesses around the brackets so that there is no slack.**

- **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

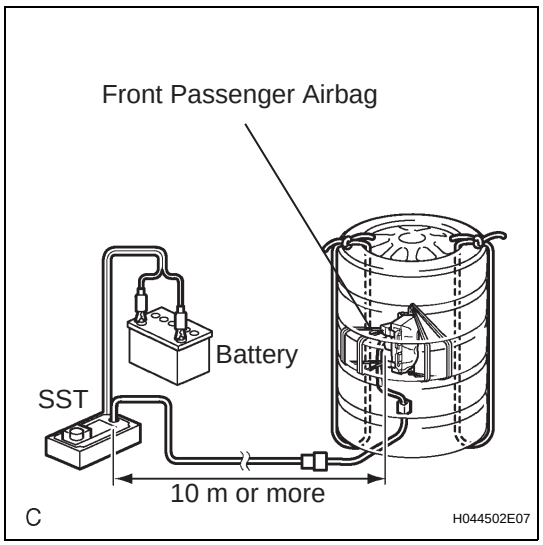


(e) Place the tires.
(1) Place at least 2 tires under the tire to which the airbag is tied.
(2) Place at least 2 tires on top of the tire to which the airbag is tied. The top tire should have a disc wheel installed.
NOTICE:
- **Do not place the SST connector under the tire as the connector may be damaged.**
- **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.

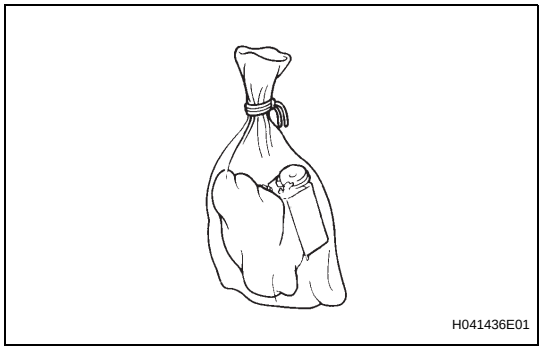
RS



(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's 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.


H041436E01

(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.

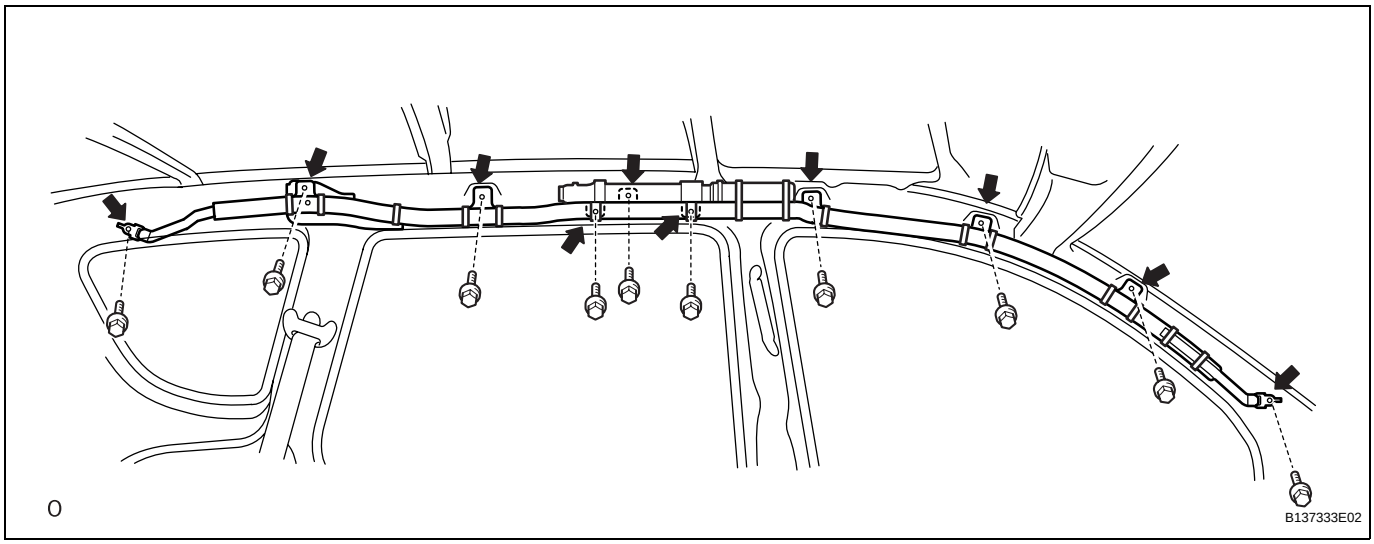
REMOVAL

HINT:

- Use the same procedures for the RH side and LH side.
- The procedures listed below are for the LH side.

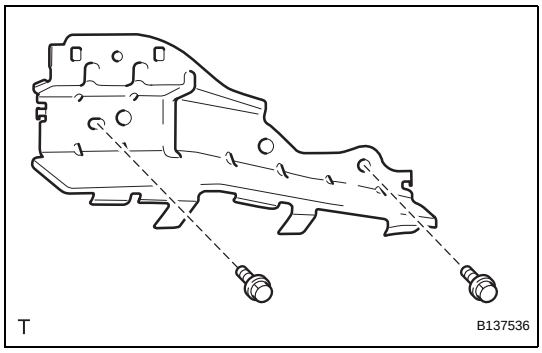
CAUTION:
Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).

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 (See page IR-37)**
3. **REMOVE CURTAIN SHIELD AIRBAG ASSEMBLY LH**



RS

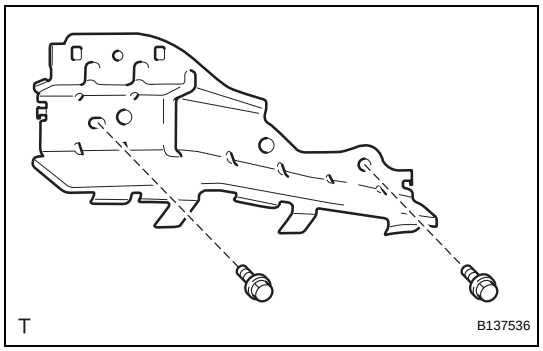
(a) Disconnect the connector.
NOTICE:
When handling the airbag connector, take care not to damage the airbag wire harness.
(b) Remove the 10 bolts and curtain shield airbag.



4. **REMOVE ROOF SIDE RAIL BRACKET LH**
   (a) Remove the 2 bolts and bracket.

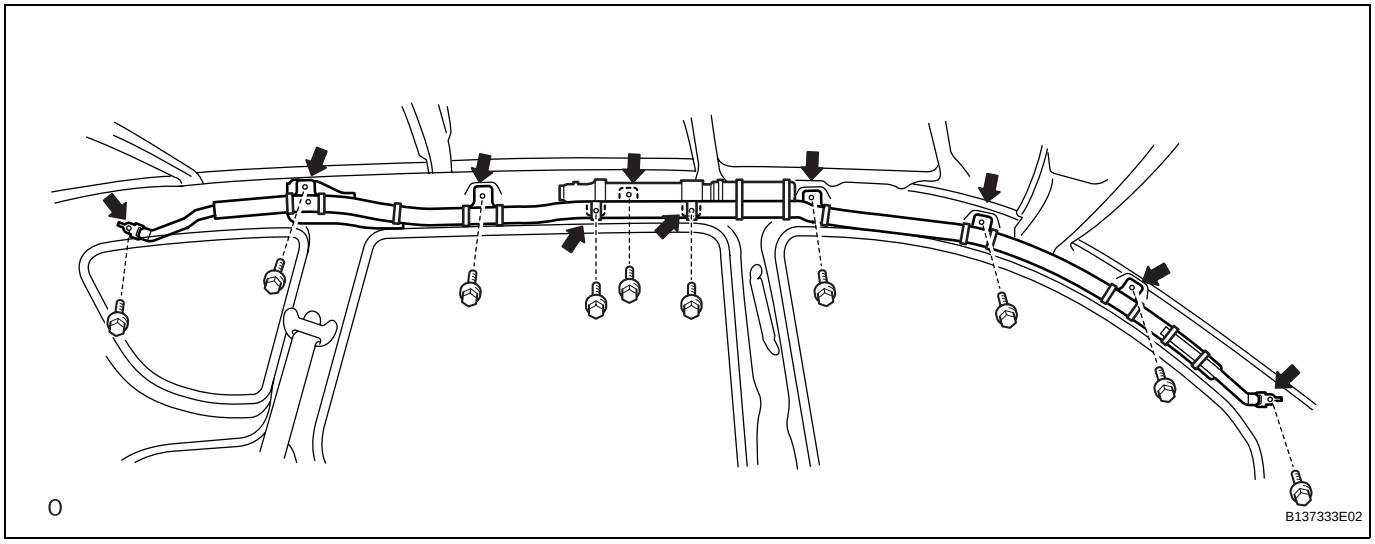
INSTALLATION

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



1. **INSTALL ROOF SIDE RAIL BRACKET LH**
   (a) Install the bracket with the 2 bolts.
   Torque: 14 N*m (143 kgf*cm, 10 ft.*lbf)

2. **INSTALL CURTAIN SHIELD AIRBAG ASSEMBLY LH**



   (a) Install the curtain shield airbag with the 10 bolts.
   Torque: 14 N*m (143 kgf*cm, 10 ft.*lbf)
   NOTICE:
   Do not twist the curtain shield airbag when installing it.
   (b) Connect the connector.
   NOTICE:
   When handling the airbag connector, take care not to damage the airbag wire harness.

3. **INSTALL ROOF HEADLINING ASSEMBLY (See page IR-50)**

4. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

5. **CHECK SRS WARNING LIGHT**
   (a) Check the SRS warning light (see page RS-34).

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.

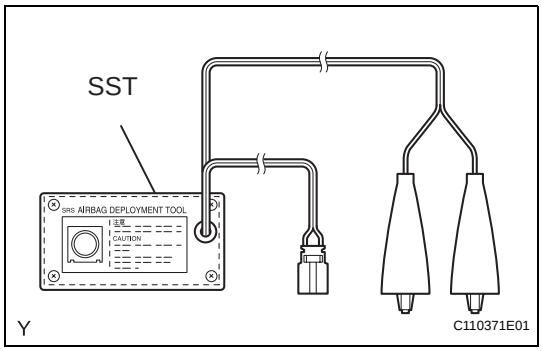
CAUTION:

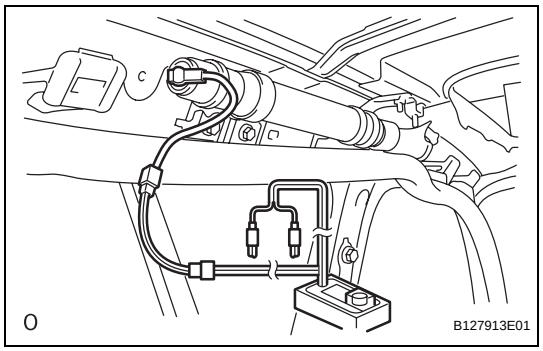
- **Never dispose of a curtain shield airbag assembly that has an undeployed airbag.**
- **The airbag produces an exploding sound when it is deployed, so perform the operation outdoors and where it will not create a nuisance to nearby residents.**
- **When deploying the airbag, always use the specified 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 curtain shield airbag assembly.**
- **The curtain shield airbag assembly becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a curtain shield airbag assembly with a deployed airbag.**
- **Do not apply water to a curtain shield airbag assembly with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

1. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

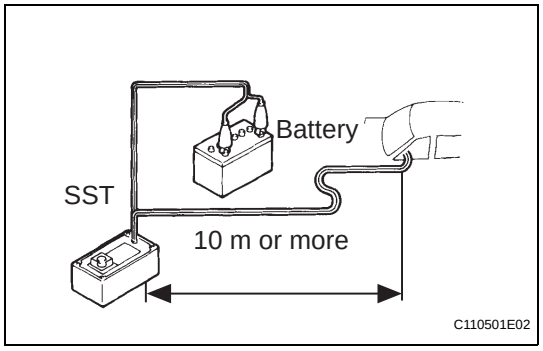
HINT:
Prepare a battery as the power source to deploy the airbag.

(a) Check if SST is functioning properly.
(b) Follow the "Precaution" (see page RS-1).
(c) Disconnect the cable from the negative battery terminal. Wait for 90 seconds after disconnecting the cable to prevent the airbag from deploying.
(d) Remove the roof headlining assembly (see page IR-37).
(e) Install SST.
  (1) Disconnect the connector from the curtain shield airbag assembly.
  NOTICE:
  When handling the airbag connector, take care not to damage the airbag wire harness.





(2) After connecting SST to each other, connect them to the curtain shield airbag assembly.
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 doors and windows of the vehicle.
NOTICE:
Take care not to damage the SST wire harness.
(5) Connect the SST's red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.

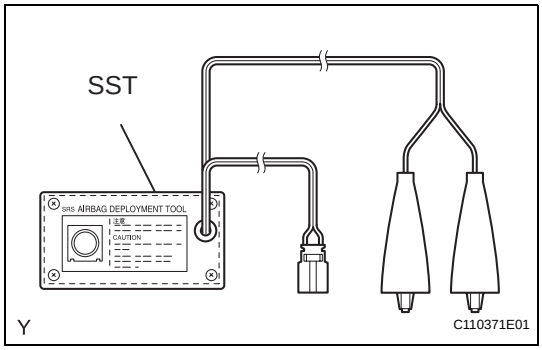
(f) Deploy the airbag.
(1) Check that no one is inside the vehicle or within a 10 m (33 ft.) radius of the vehicle.
(2) Press the SST activation switch and deploy the airbag.
CAUTION:
- **When deploying the airbag, make sure that no one is near the vehicle.**
- **The curtain shield airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a curtain shield airbag with a deployed airbag.**
- **Do not apply water to a curtain shield airbag with 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.

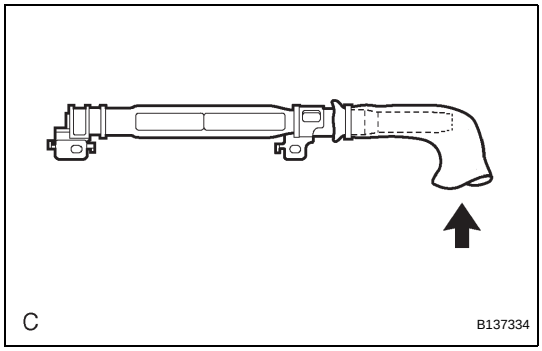
2. DISPOSE OF CURTAIN SHIELD AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)
NOTICE:
- **When disposing of the curtain shield airbag, never use the customer's vehicle to deploy the airbag.**
- **Be sure to follow the procedure detailed below when deploying the airbag.**

RS

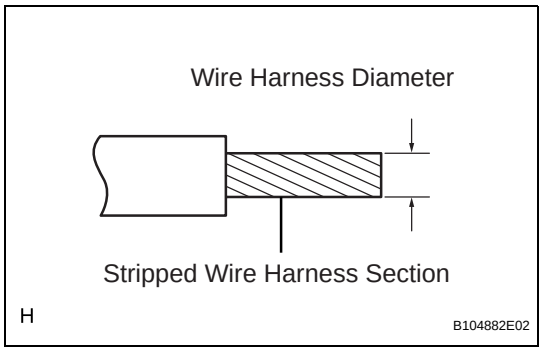
HINT:
Prepare a battery as the power source to deploy the airbag.



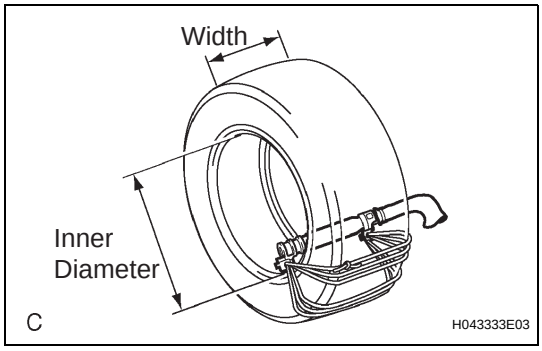
(a) Check if SST is functioning properly.
(b) Remove the curtain shield airbag (see page RS-360).
CAUTION:
When removing the curtain shield airbag, work must be started 90 seconds after the ignition switch is turned off and the negative (-) terminal cable is disconnected from the battery.



(c) Cut off the deployment section of the curtain shield airbag.



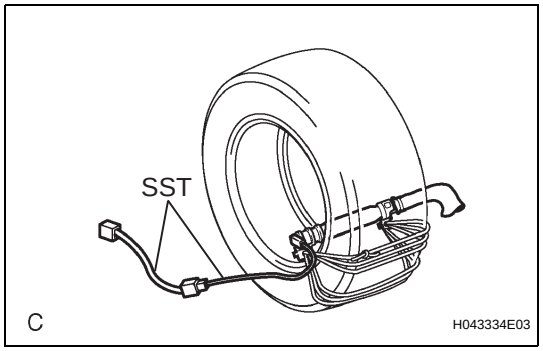
(d) Using a service-purpose wire harness for the vehicle, tie down the curtain shield airbag to the tire.
Wire harness:
Stripped wire harness section
1.25 mm^2 or more (0.0019 $in.^2$ or more)
CAUTION:
If the wire harness is too thin or an alternative object is used to tie down the curtain shield airbag, it may be snapped due to 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 assembly inside the tire as shown in the illustration.
Tire size:
Width minimum:
185 mm (7.28 in.)
Inner diameter minimum:
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 may become loose due to the shock when the airbag is deployed.

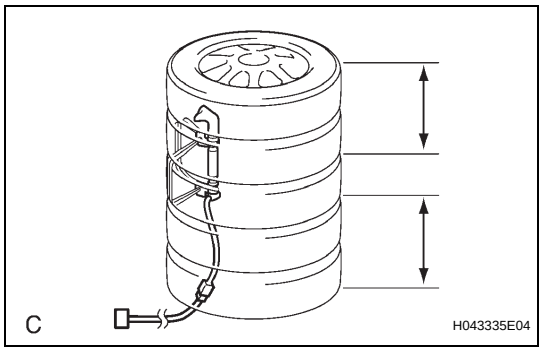
RS

NOTICE:
Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage the disc wheel.

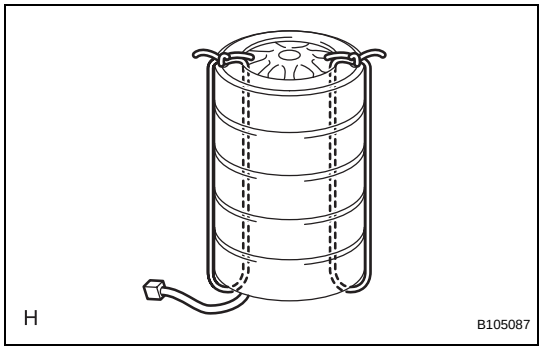


(e) Install SST.
(1) After connecting SST to each other, connect them to the curtain shield airbag.
SST 09082-00802 (09082-10801, 09082-20801)

(f) Place the tires.
CAUTION:
Do not place the deployment direction of the curtain shield airbag assembly facing toward the ground.

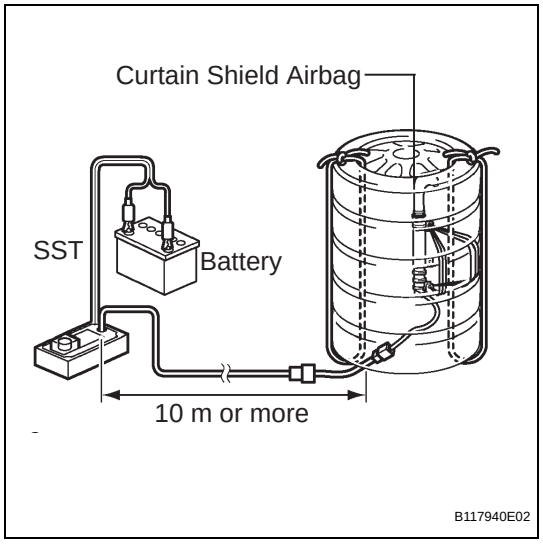


(1) Place at least 2 tires under the tire to which the curtain shield airbag assembly is tied.
(2) Place at least 2 tires over the tire to which the curtain shield airbag is tied. The top tire should have the disc wheel installed.
NOTICE:
Do not place the SST connector under the tire because it could be damaged.



(3) Tie the tires together with 2 wire harnesses.
CAUTION:
Make sure that the wire harnesses are tight. Looseness in the wire harness may result in the tires coming free due to the shock when the airbag is deployed.

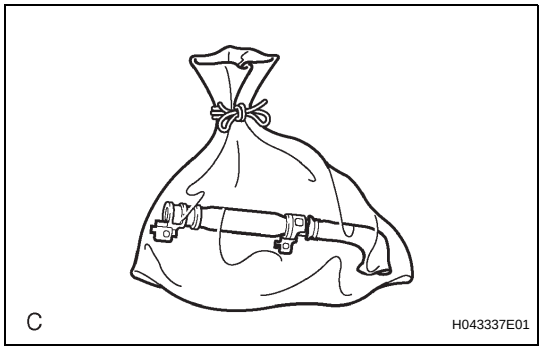
RS



(g) 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.

(h) Deploy the airbag.
(1) Connect the SST's red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
(2) Check that no one is within a 10 m (33 ft) radius of the tire to which the curtain shield airbag is tied.

(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.



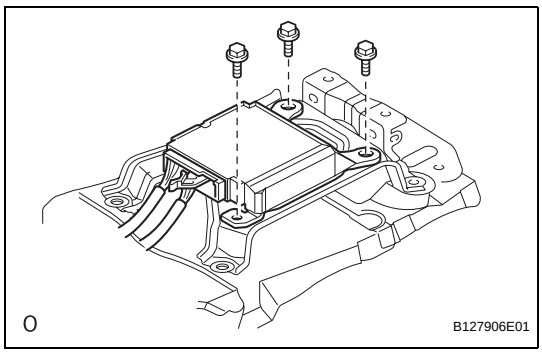
(i) Dispose of the curtain shield airbag.
CAUTION:
- **The curtain shield airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a curtain shield airbag with a deployed airbag.**
- **Do not apply water to a curtain shield airbag with 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.

REMOVAL

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

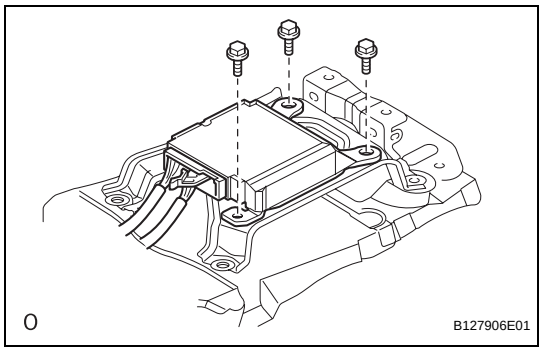
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
   CAUTION:
   Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.
2. **REMOVE NO. 1 CONSOLE UPPER PANEL GARNISH (See page IP-17)**
3. **REMOVE NO. 2 CONSOLE UPPER PANEL GARNISH (See page IP-18)**
4. **REMOVE UPPER CONSOLE PANEL SUB-ASSEMBLY (See page IP-18)**
5. **REMOVE SWITCH BASE (See page IP-18)**
6. **REMOVE CONSOLE CUP HOLDER BOX (See page IP-18)**
7. **REMOVE UPPER REAR CONSOLE PANEL SUB-ASSEMBLY (See page IP-19)**
8. **REMOVE CONSOLE REAR END PANEL (See page IP-19)**
9. **REMOVE NO. 1 INSTRUMENT PANEL BRACKET COVER INNER LH (See page IP-19)**
10. **REMOVE NO. 1 INSTRUMENT PANEL BRACKET COVER INNER RH (See page IP-19)**
11. **REMOVE REAR CONSOLE BOX ASSEMBLY (See page IP-20)**
12. **REMOVE CENTER AIRBAG SENSOR ASSEMBLY**
    (a) Disconnect the airbag sensor connectors.
    (b) Remove the 3 bolts and airbag sensor.



RS

INSTALLATION

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



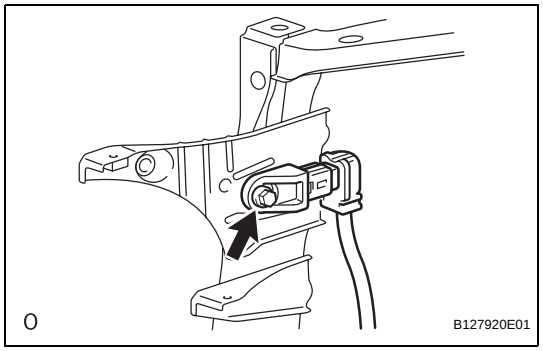
1. **INSTALL CENTER AIRBAG SENSOR ASSEMBLY**
   (a) Install the airbag sensor with the 3 bolts.
   Torque: 17.5 N*m (179 kgf*cm, 13 ft.*lbf)
   NOTICE:
   - **If the airbag sensor has been dropped, or there are any cracks, dents or other defects in the case, bracket or connector, replace it with a new 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.
2. **INSTALL REAR CONSOLE BOX ASSEMBLY (See page IP-26)**
3. **INSTALL NO. 1 INSTRUMENT PANEL BRACKET COVER INNER LH (See page IP-26)**
4. **INSTALL NO. 1 INSTRUMENT PANEL BRACKET COVER INNER RH (See page IP-26)**
5. **INSTALL CONSOLE REAR END PANEL (See page IP-26)**
6. **INSTALL UPPER REAR CONSOLE PANEL SUB-ASSEMBLY (See page IP-27)**
7. **INSTALL CONSOLE CUP HOLDER BOX (See page IP-27)**
8. **INSTALL SWITCH BASE (See page IP-27)**
9. **INSTALL UPPER CONSOLE PANEL SUB-ASSEMBLY (See page IP-27)**
10. **INSTALL NO. 2 CONSOLE UPPER PANEL GARNISH (See page IP-28)**
11. **INSTALL NO. 1 CONSOLE UPPER PANEL GARNISH (See page IP-28)**
12. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**
13. **CHECK SRS WARNING LIGHT**
    (a) Check the SRS warning light (see page RS-34).

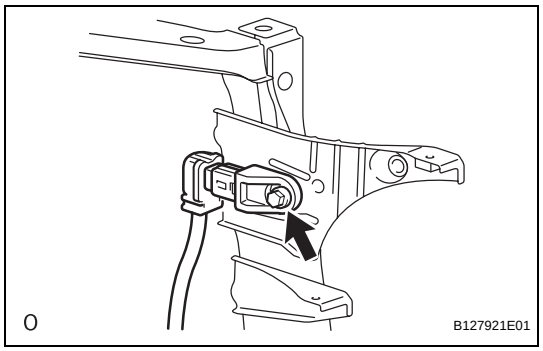
REMOVAL

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 RADIATOR SUPPORT OPENING COVER**
3. **REMOVE FRONT AIRBAG SENSOR LH**
   (a) Disconnect the sensor connector.
   (b) Remove the bolt and sensor.



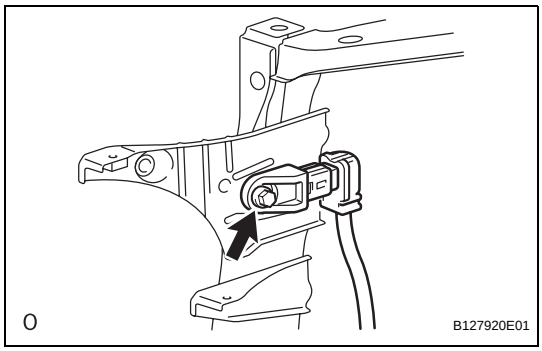
4. **REMOVE FRONT AIRBAG SENSOR RH**
   (a) Disconnect the sensor connector.
   (b) Remove the bolt and sensor.



RS

INSTALLATION

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

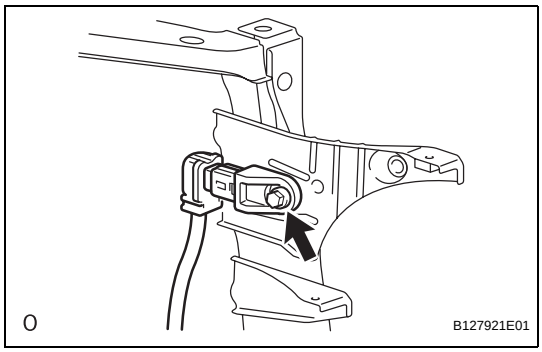


1. INSTALL FRONT AIRBAG SENSOR LH

(a) Install the sensor with the bolt.
Torque: 9.0 N*m (92 kgf*cm, 80 in.*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.



2. INSTALL FRONT AIRBAG SENSOR RH

(a) Install the sensor with the bolt.
Torque: 9.0 N*m (92 kgf*cm, 80 in.*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 RADIATOR SUPPORT OPENING COVER

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

5. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light (see page RS-34).

RS

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, occupant classification ECU 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 servicing 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.)**
  (The SRS is equipped with a back-up power source, so if work is started within 90 seconds of disconnecting the negative (-) terminal cable of the battery, the SRS may be deployed).
- **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-37).**
- **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-5).**

HINT:

In the airbag system, the center airbag sensor, front airbag sensor LH and RH, side airbag sensor LH and RH, and rear airbag sensor LH and RH are collectively referred to as the airbag sensors.

1. HANDLING PRECAUTIONS FOR AIRBAG SENSORS

(a) Before starting the following operations, wait for at least 90 seconds after disconnecting the negative (-) terminal cable from the battery:
  (1) Replacement of the airbag sensors
  (2) Adjustment of the front/rear doors of the vehicle equipped with the side airbags and curtain shield airbags (fitting adjustment)

(b) When connecting or disconnecting the airbag sensor connectors, ensure that each sensor is installed in the vehicle.

(c) Do not use airbag sensors which have been dropped during the operation or transportation.

(d) Do not disassemble the airbag sensors.

2. INSPECTION PROCEDURE FOR VEHICLE INVOLVED IN ACCIDENT

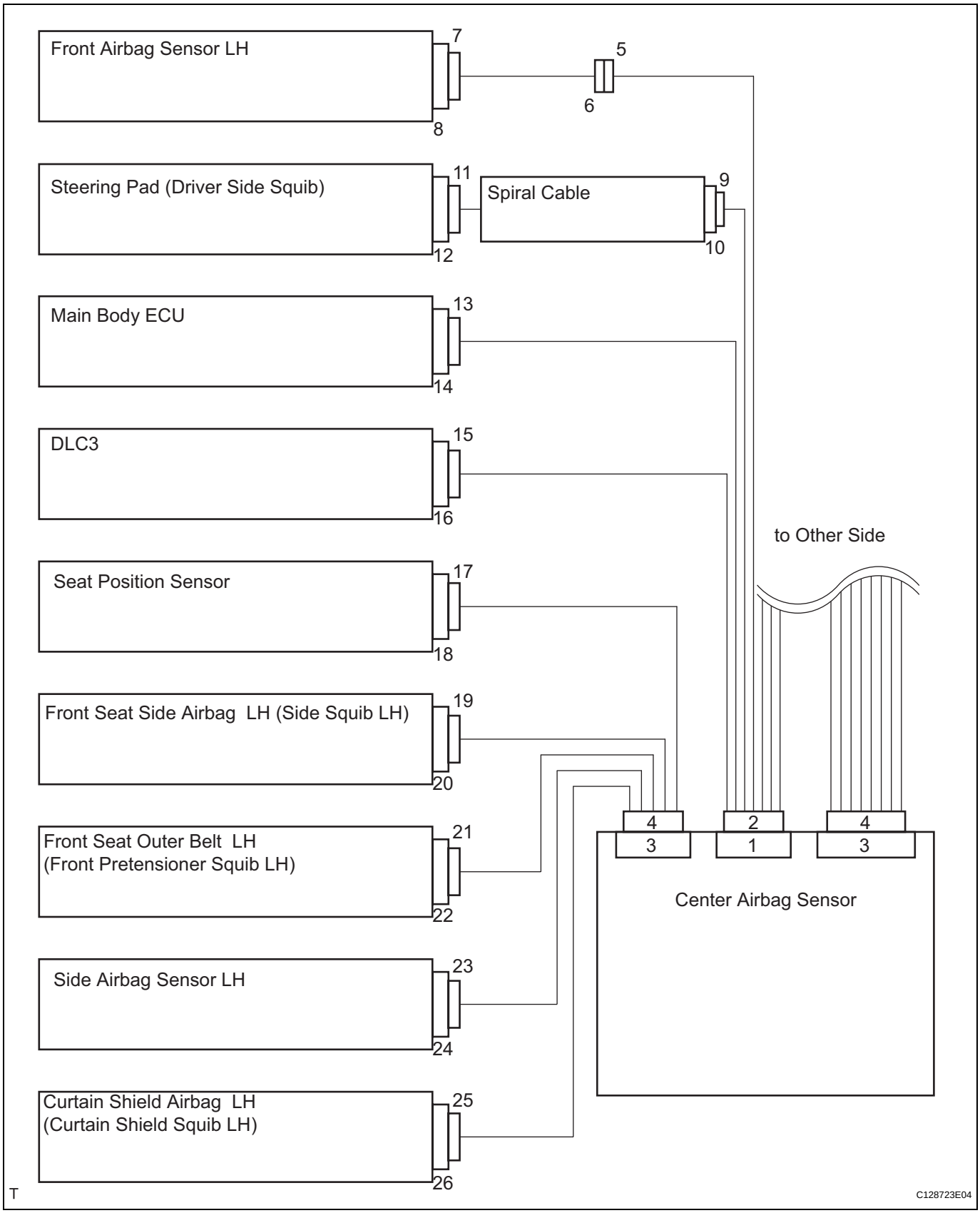
(a) When the airbag has not deployed, confirm the DTCs by checking the SRS warning light. If there is any malfunction in the SRS airbag system, perform troubleshooting.

(b) When any of the airbags have deployed, replace the airbag sensors and check the installation condition.

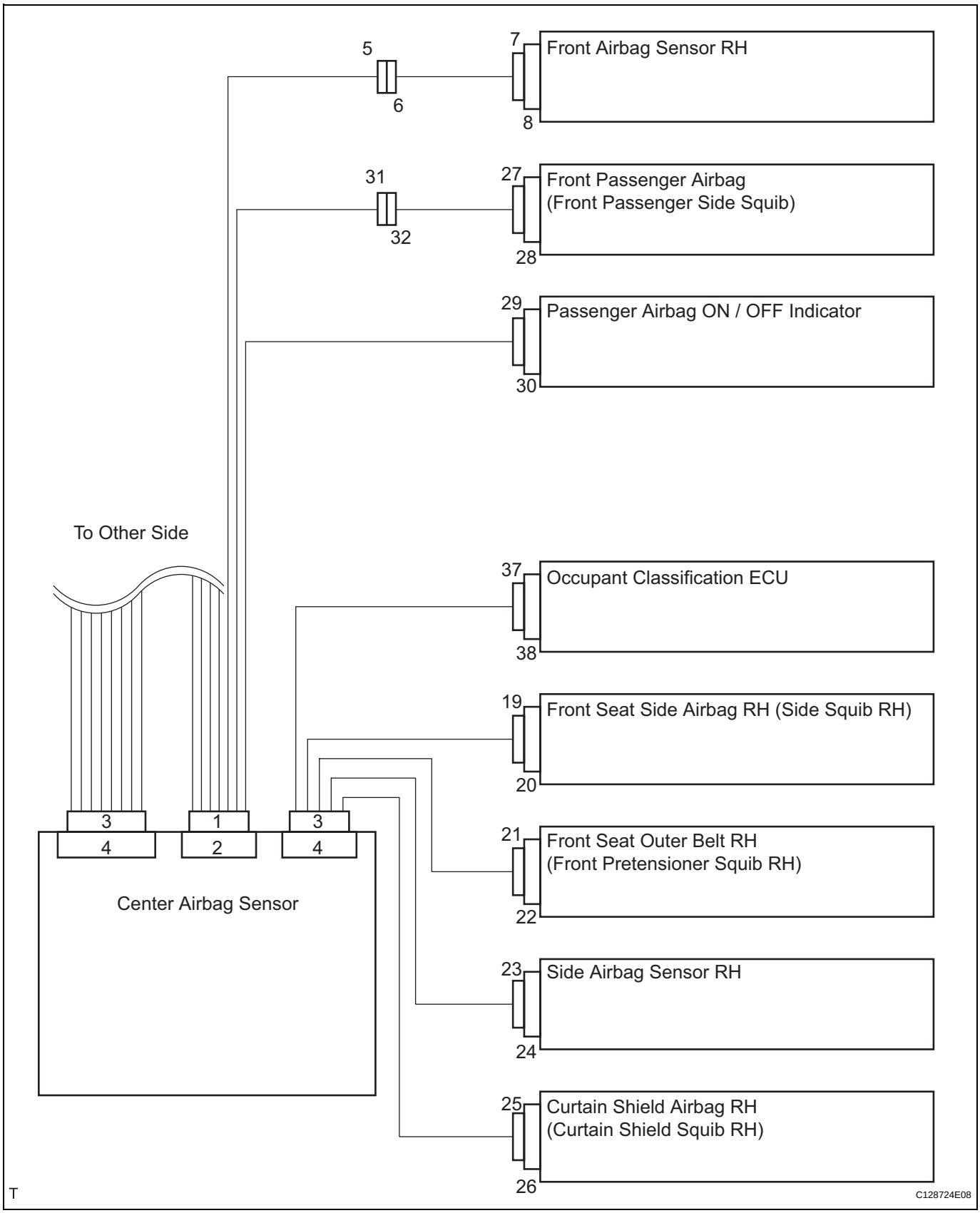
3. SRS CONNECTOR

(a) SRS connectors are located as shown in the following illustration.

(1) w/ Front seat side airbag and curtain shield airbag



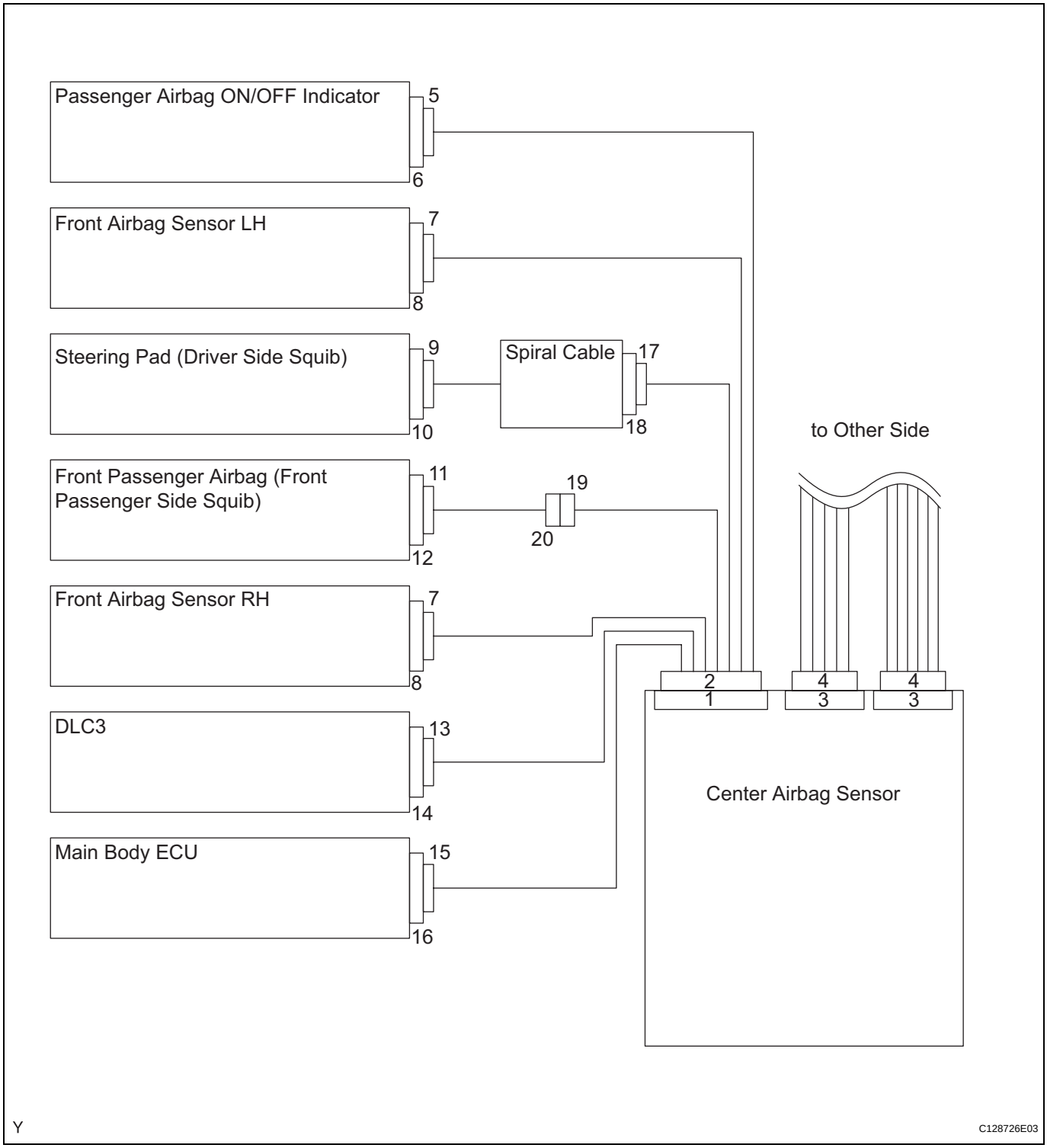
RS



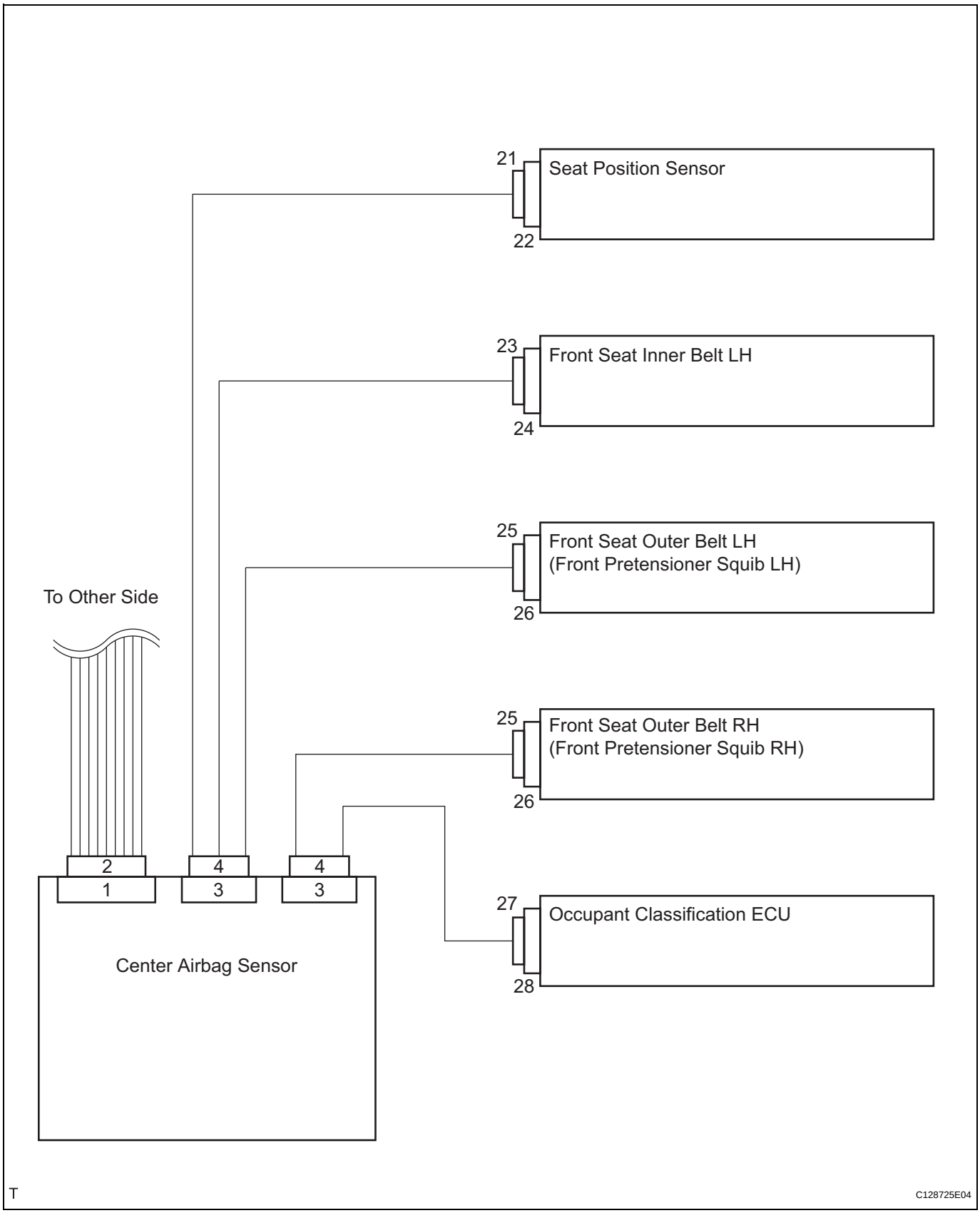
No.	Item	Application
(1)	Terminal Twin-Lock Mechanism	Connectors 1, 3, 5, 7, 9, 13, 23, 31, 37
(2)	Activation Prevention Mechanism	Connectors 1, 3, 8, 12, 22, 26, 28
(3)	Half Connection Prevention Mechanism	Connectors 6, 7, 9, 23, 32

No.	Item	Application
(4)	Connector Position Assurance Mechanism	Connector 6, 23
(5)	Connector Lock Mechanism (1)	Connectors 11, 21, 25, 27
(6)	Connector Lock Mechanism (2)	Connectors 1, 3
(7)	Improper Connection Prevention Lock Mechanism	Connectors 2, 4

(2) w/o Front seat side airbag and curtain shield airbag



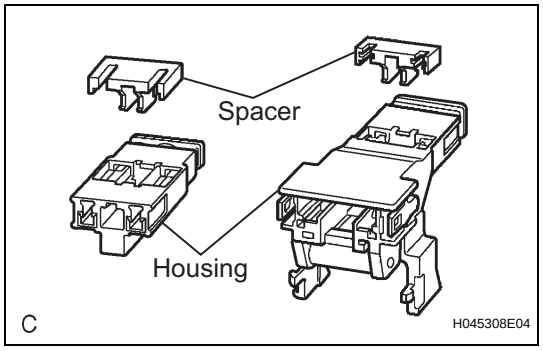
RS



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No.	Item	Application
(1)	Terminal Twin-Lock Mechanism	Connectors 2, 4, 7, 15, 17, 19, 27
(2)	Activation Prevention Mechanism	Connectors 2, 4, 8, 10, 12, 26
(3)	Half Connection Prevention Mechanism	Connectors 7, 17

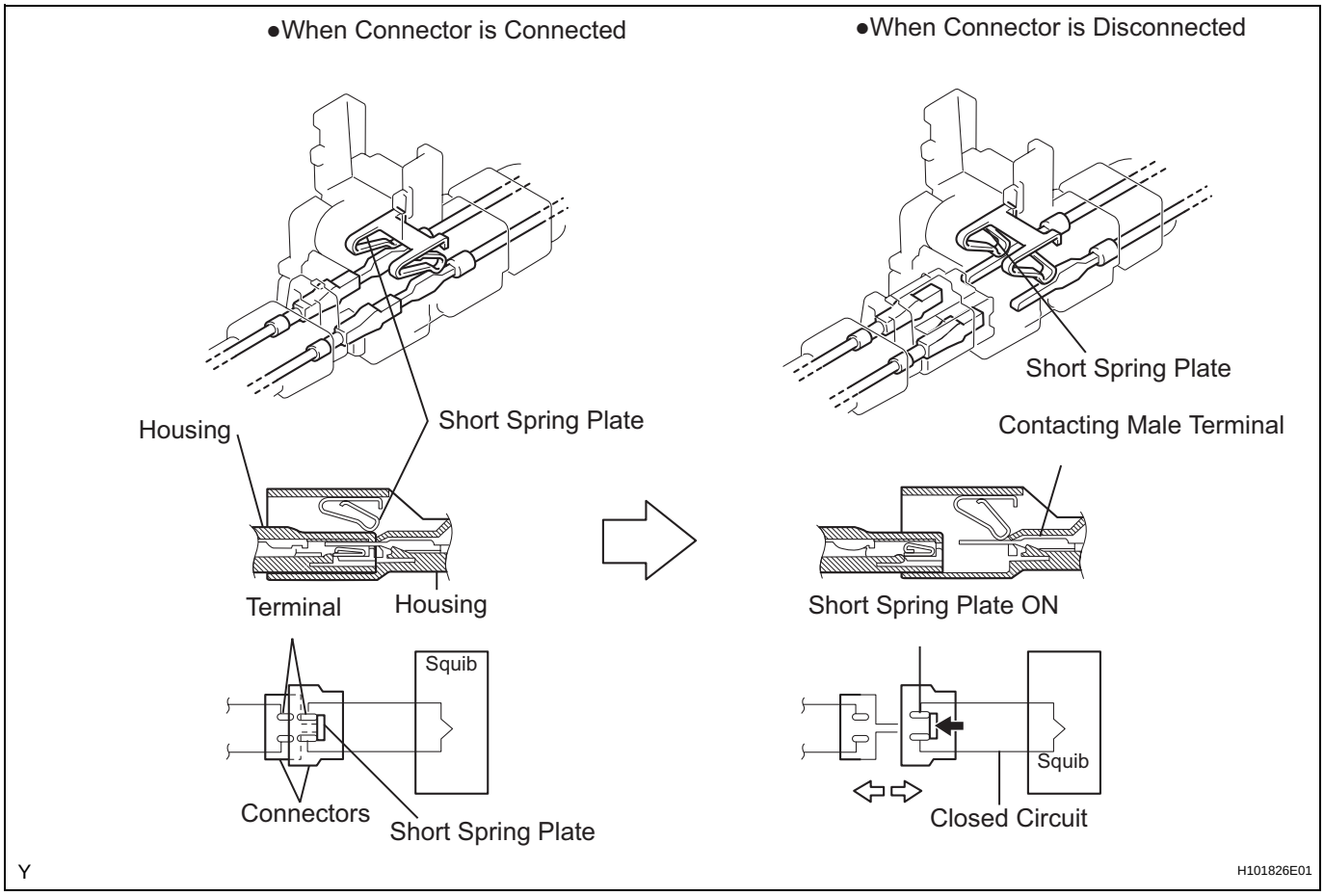
No.	Item	Application
(4)	Connector Position Assurance Mechanism	Connector 7
(5)	Connector Lock Mechanism (1)	Connectors 9, 11, 25
(6)	Connector Lock Mechanism (2)	Connectors 1, 3
(7)	Improper Connection Prevention Lock Mechanism	Connectors 2, 4



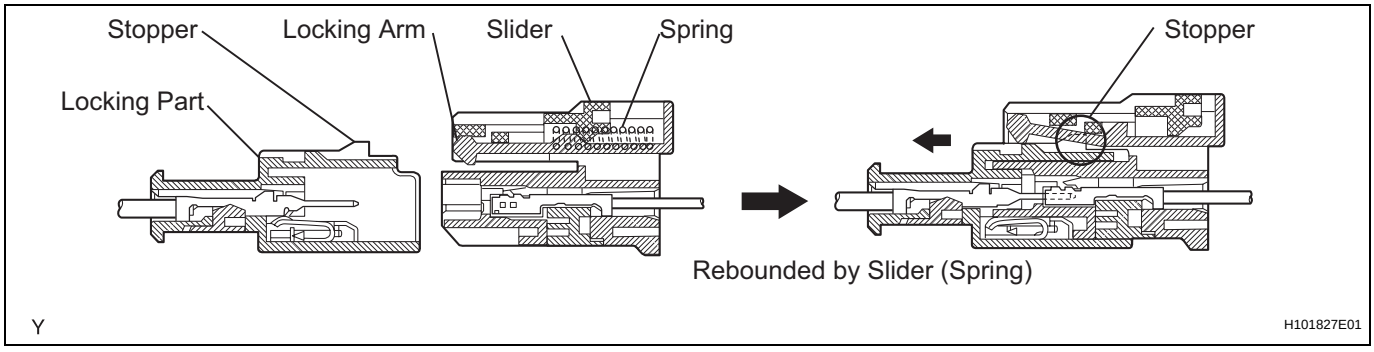
(b) All connectors in the SRS except the seat position sensor connector and the occupant classification ECU connector are colored yellow to distinguish them from other connectors. Some connectors have special functions, and are specially designed for the SRS. These connectors use durable gold-plated terminals, and are placed in the locations shown above to ensure high reliability.

(1) Terminal twin-lock mechanism:
Each connector is a two-piece component consisting of a housing and a spacer. This design enables the terminal to be locked securely by two locking devices (the retainer and the lance) to prevent the terminals from becoming disconnected.

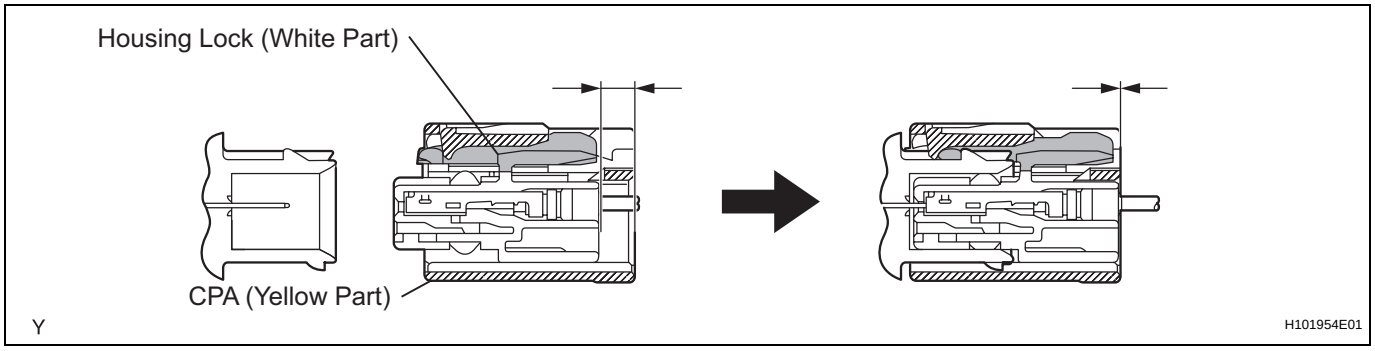
(2) Activation prevention mechanism:
Each connector contains a short spring plate. When the connector is disconnected, the short spring plate creates a short circuit by automatically connecting the positive (+) and negative (-) terminals of the squib.



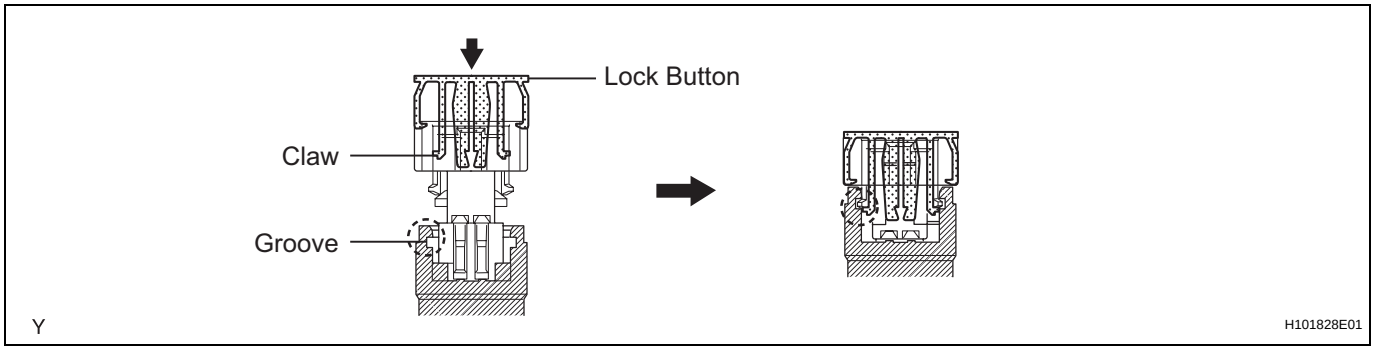
(3) Half connection prevention mechanism:
If the connector is not completely connected, the connector is disconnected by the spring operation so that no continuity exists.



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

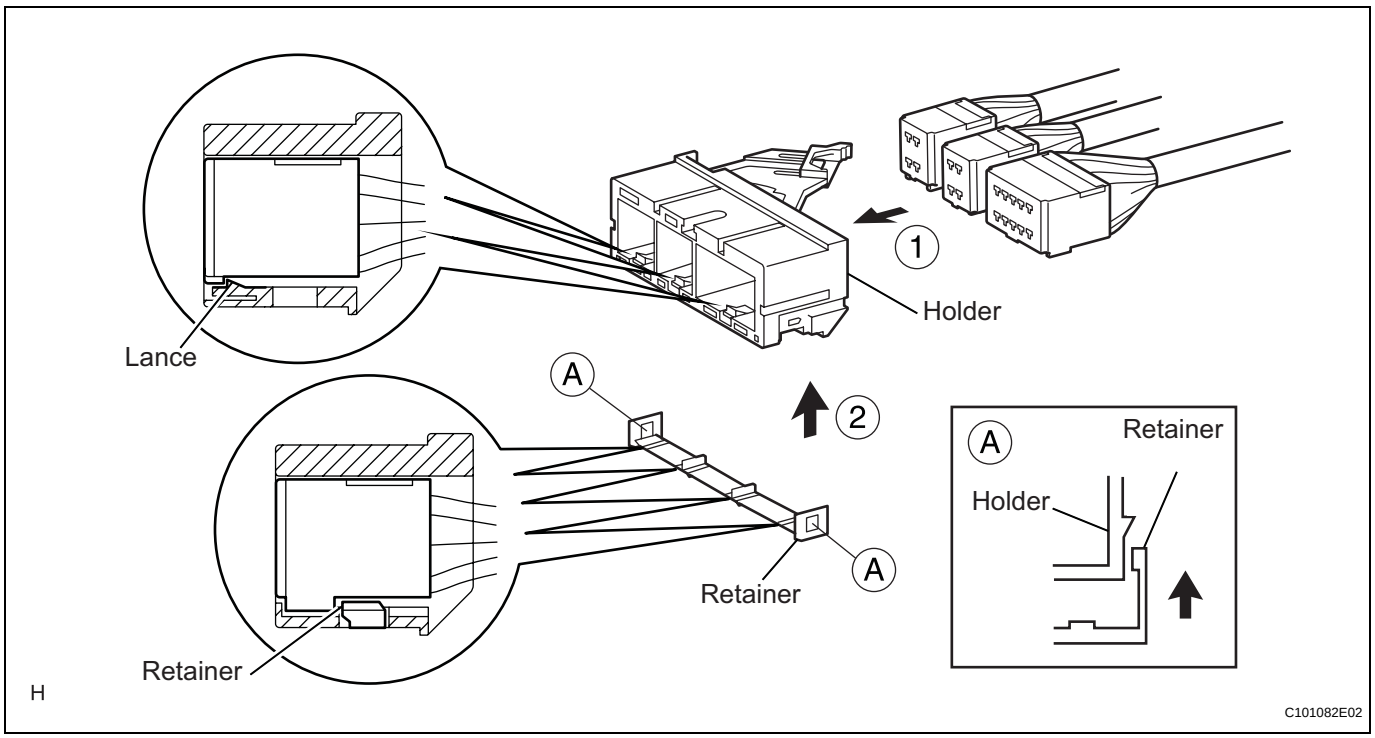


(5) Connector lock mechanism (1):
Locking the connector lock button connects the connector.

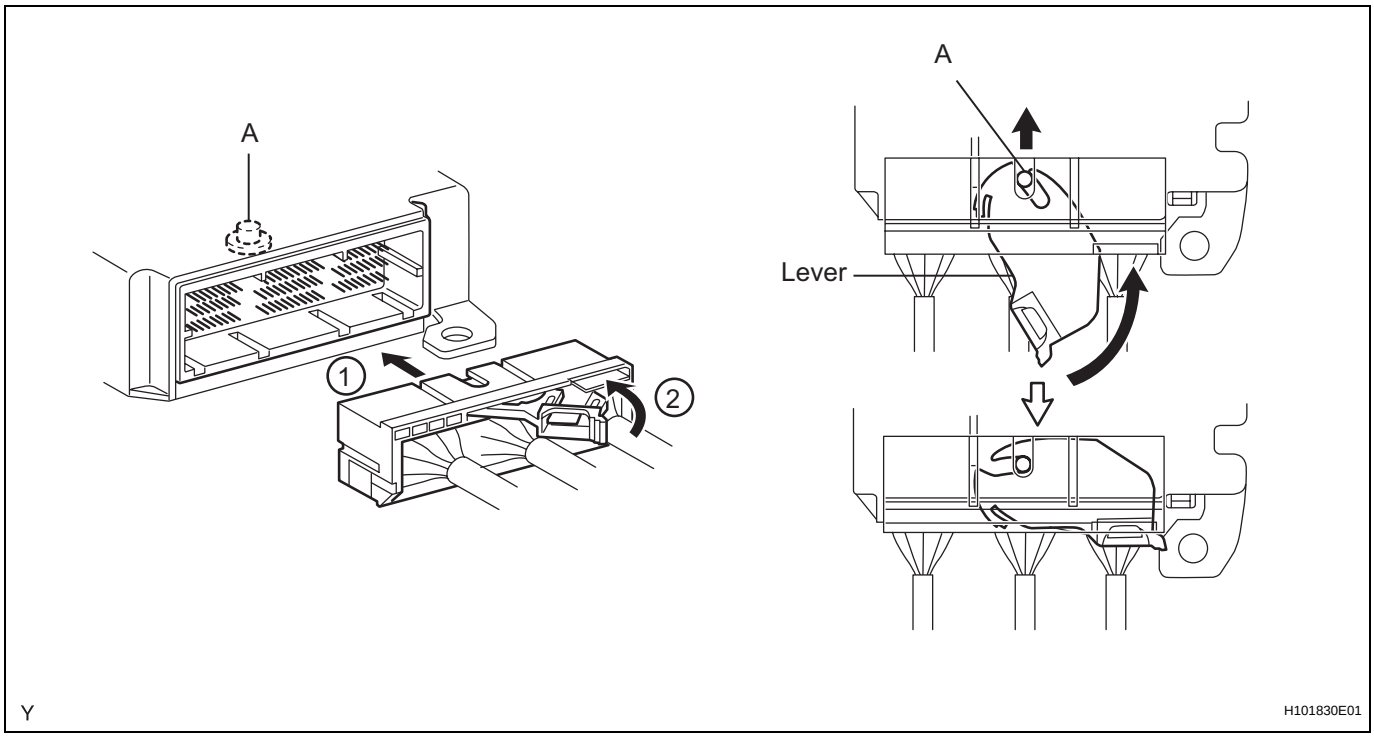


(6) Connector lock mechanism (2):
Both the primary lock with holder lances and the secondary lock with a retainer prevent the connectors from becoming disconnected.

RS



(7) Improper connection prevention lock mechanism:
When connecting the holder, the lever is pushed into the end by rotating around the A axis to lock the holder securely.



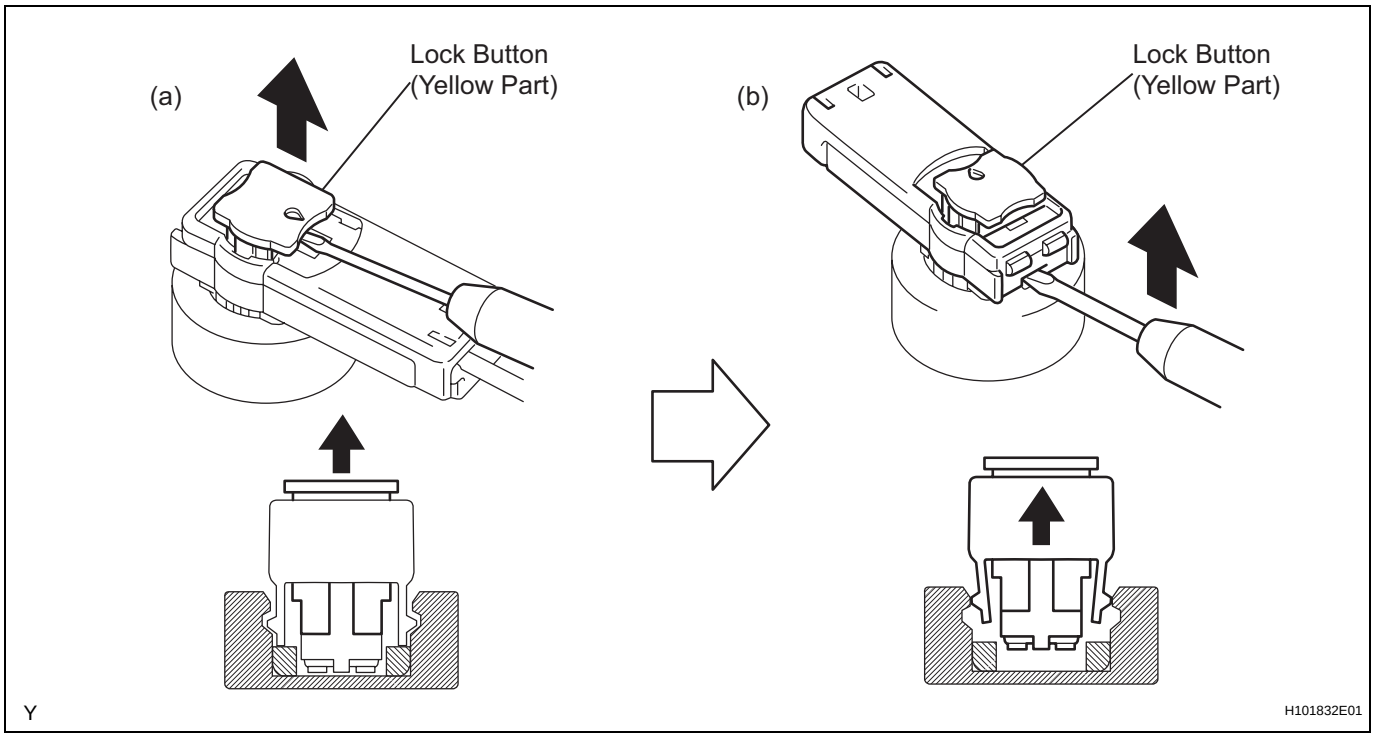
4. DISCONNECTION OF CONNECTORS FOR STEERING PAD, FRONT PASSENGER AIRBAG ASSEMBLY (SQUIB SIDE), CURTAIN SHIELD AIRBAG ASSEMBLY AND FRONT SEAT OUTER BELT ASSEMBLY

HINT:
Tape the screwdriver tip before use.

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

RS

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

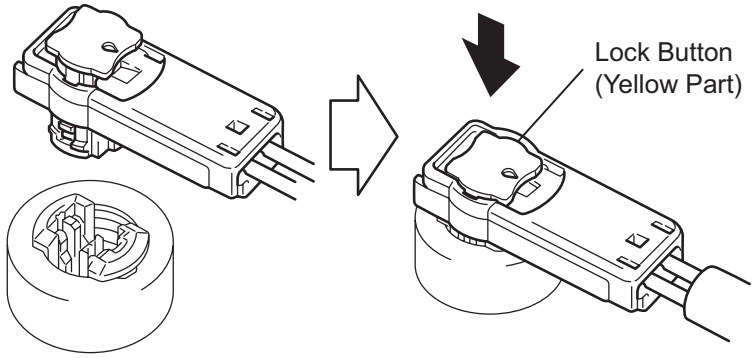


5. CONNECTION OF CONNECTORS FOR STEERING PAD, FRONT PASSENGER AIRBAG ASSEMBLY (SQUIB SIDE), CURTAIN SHIELD AIRBAG ASSEMBLY AND FRONT SEAT OUTER BELT ASSEMBLY

(a) Connect the connector.

RS

(b) Push the lock button (yellow part) of the connector down securely. (When locking, a click sound can be heard.)

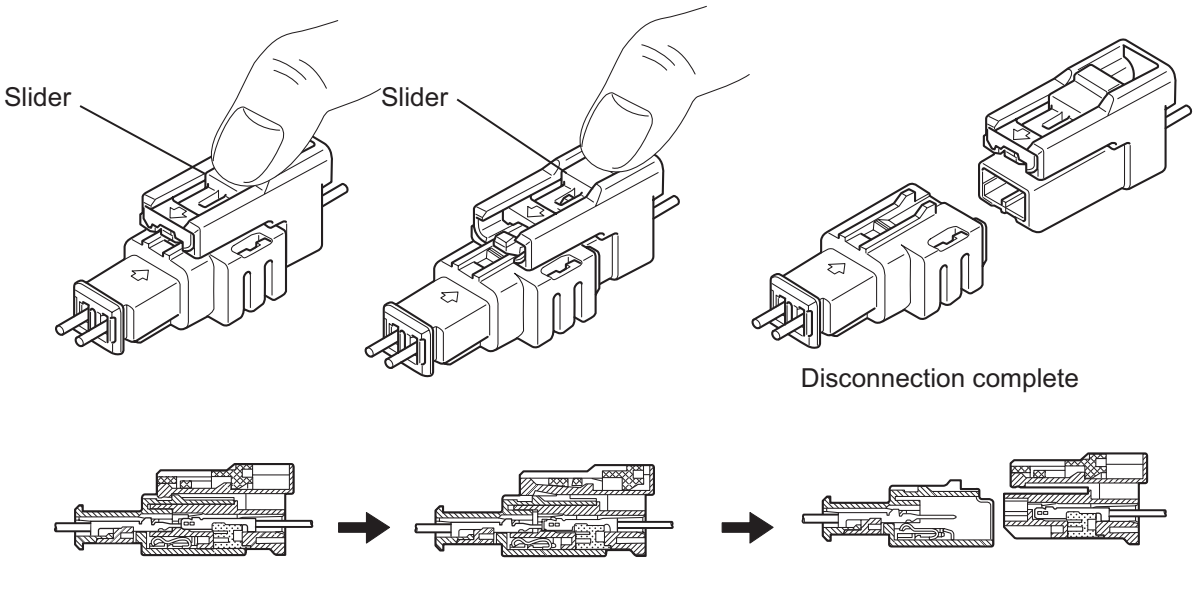


Y H101833E01

6. DISCONNECTION OF CONNECTORS FOR FRONT PASSENGER AIRBAG ASSEMBLY (INSTRUMENT PANEL WIRE SIDE)

(a) Place a finger on the slider, slide the slider to release the lock, and then disconnect the connector.

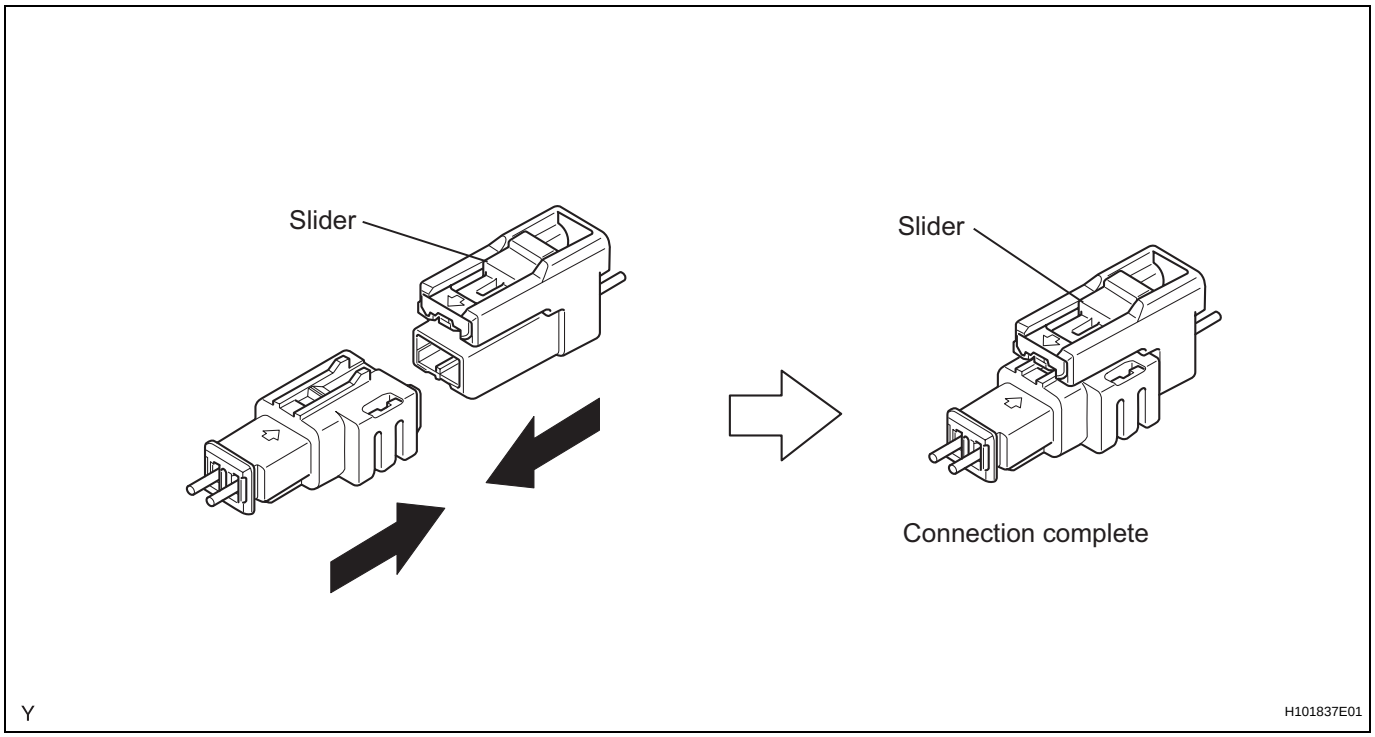
RS



Y H101836E01

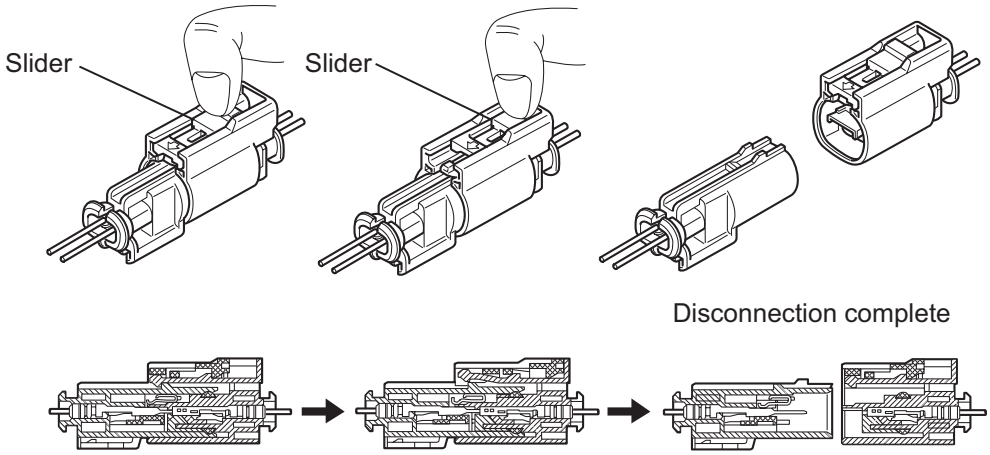
7. CONNECTION OF CONNECTORS FOR FRONT PASSENGER AIRBAG ASSEMBLY (INSTRUMENT PANEL WIRE SIDE)

(a) Connect the connector as shown in the illustration. (When locking, make sure that the slider returns to its original position and a click sound can be heard.)
HINT:
When connecting, the slider slides. Do not touch the slider while connecting, as this may result in an insecure fit.



8. DISCONNECTION OF CONNECTORS FOR FRONT SEAT SIDE AIRBAG ASSEMBLY

(a) Place a finger on the slider, slide the slider to release the lock, and then disconnect the connector.



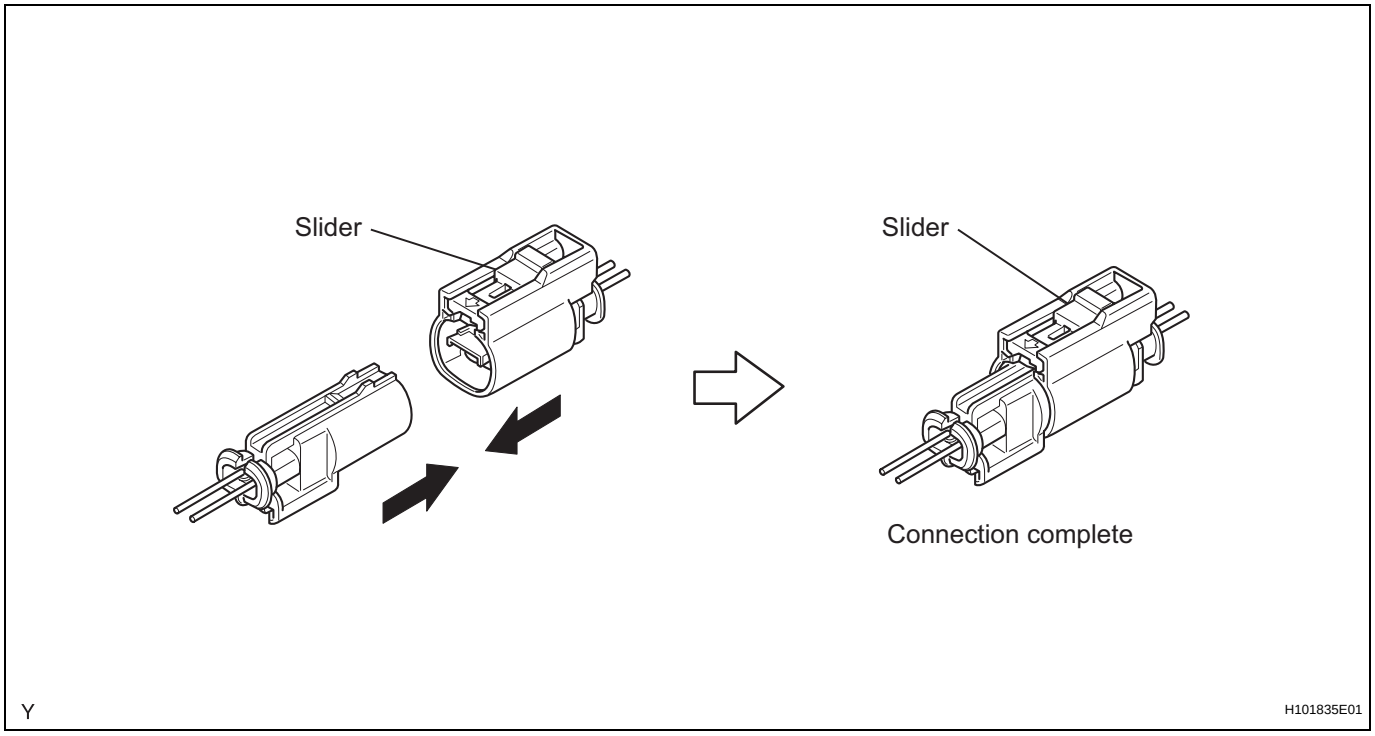
Y

H101834E01

9. CONNECTION OF CONNECTORS FOR FRONT SEAT SIDE AIRBAG ASSEMBLY

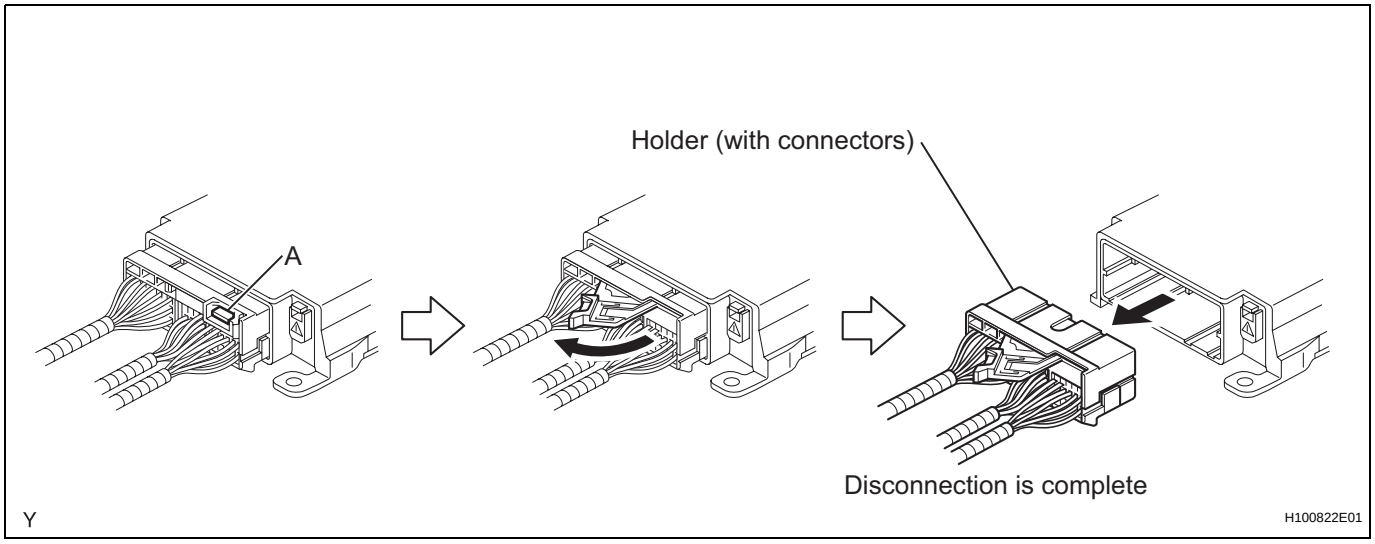
(a) Connect the connector as shown in the illustration. (When locking, make sure that the slider returns to its original position and a click sound can be heard.)
HINT:
When connecting, the slider slides. Do not touch the slider while connecting, as this may result in an insecure fit.

RS



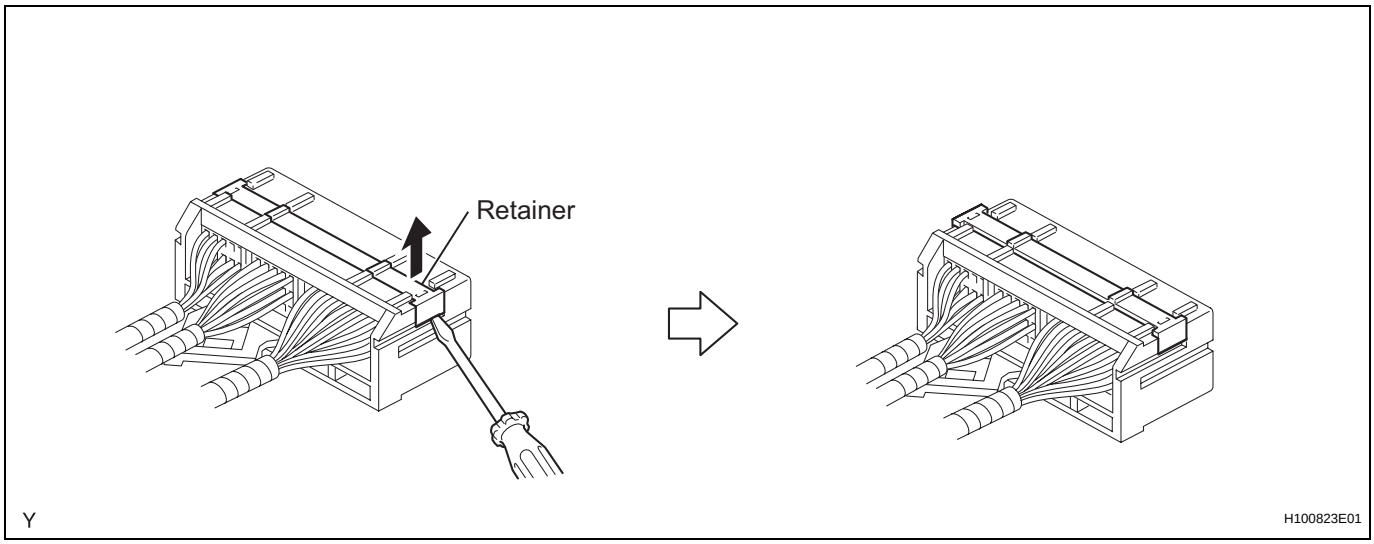
10. DISCONNECTION OF CONNECTORS FOR CENTER AIRBAG SENSOR ASSEMBLY

(a) Pull the lever by pushing part A as shown in the illustration and disconnect the holder (with connectors).

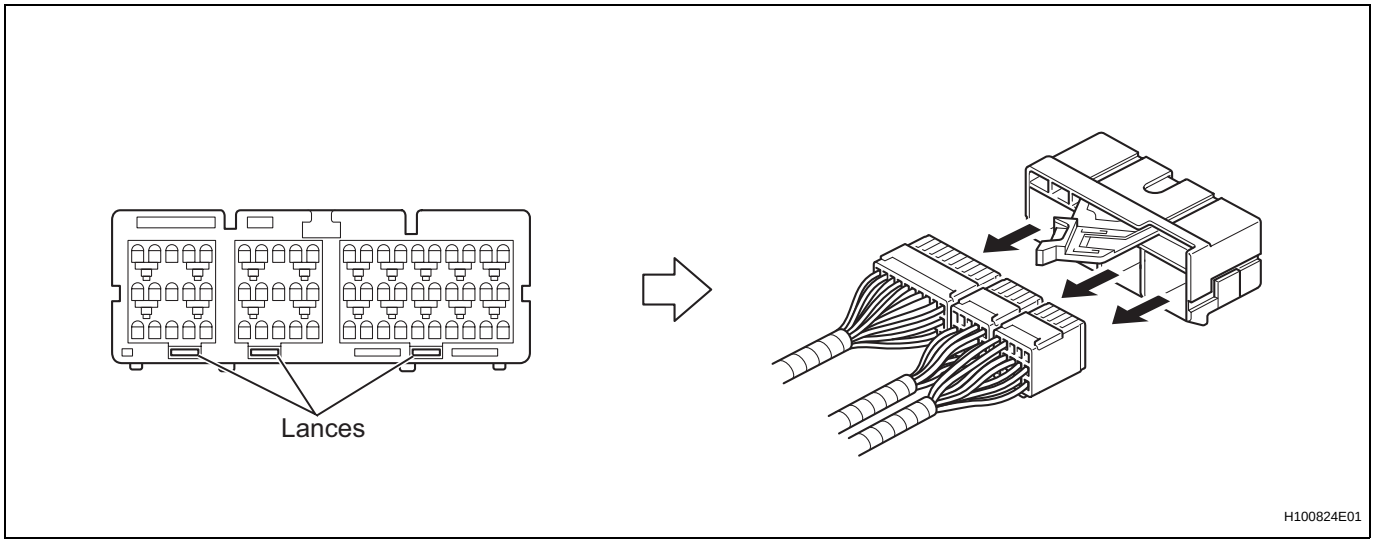


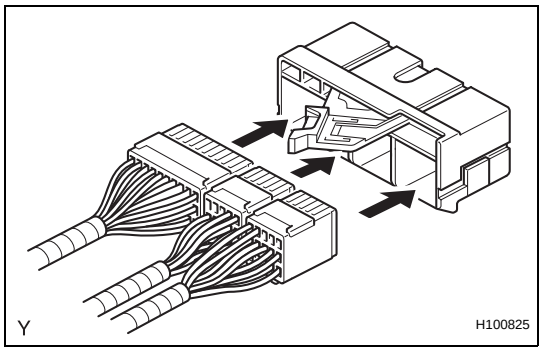
HINT:
Perform the following procedures when replacing the holder.

(b) Remove the holder.
(1) Using a screwdriver, unlock the retainer.



(2) Release the fitting lances and remove the holder.





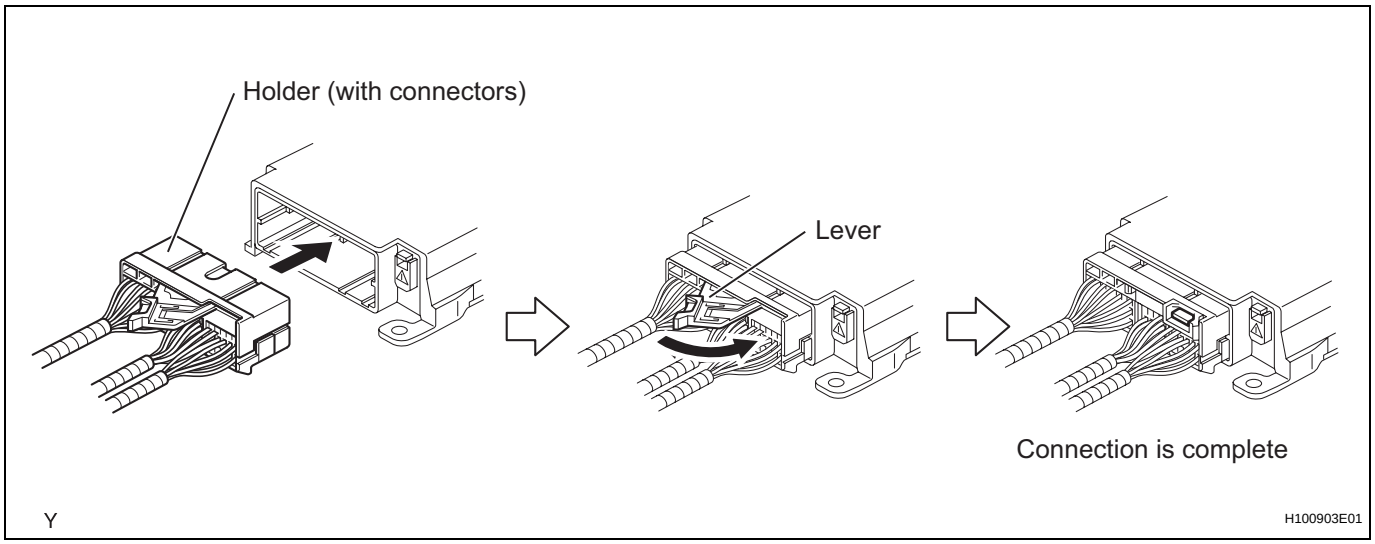
(c) Install the holder.
(1) Install the connectors into the holder. (When locking, a click sound can be heard.)
HINT:
The retainer is locked when the holder is connected.

11. CONNECTION OF CONNECTORS FOR CENTER AIRBAG SENSOR ASSEMBLY

(a) Firmly insert the holder (with connectors) into the center airbag sensor until it cannot be pushed any further.

RS

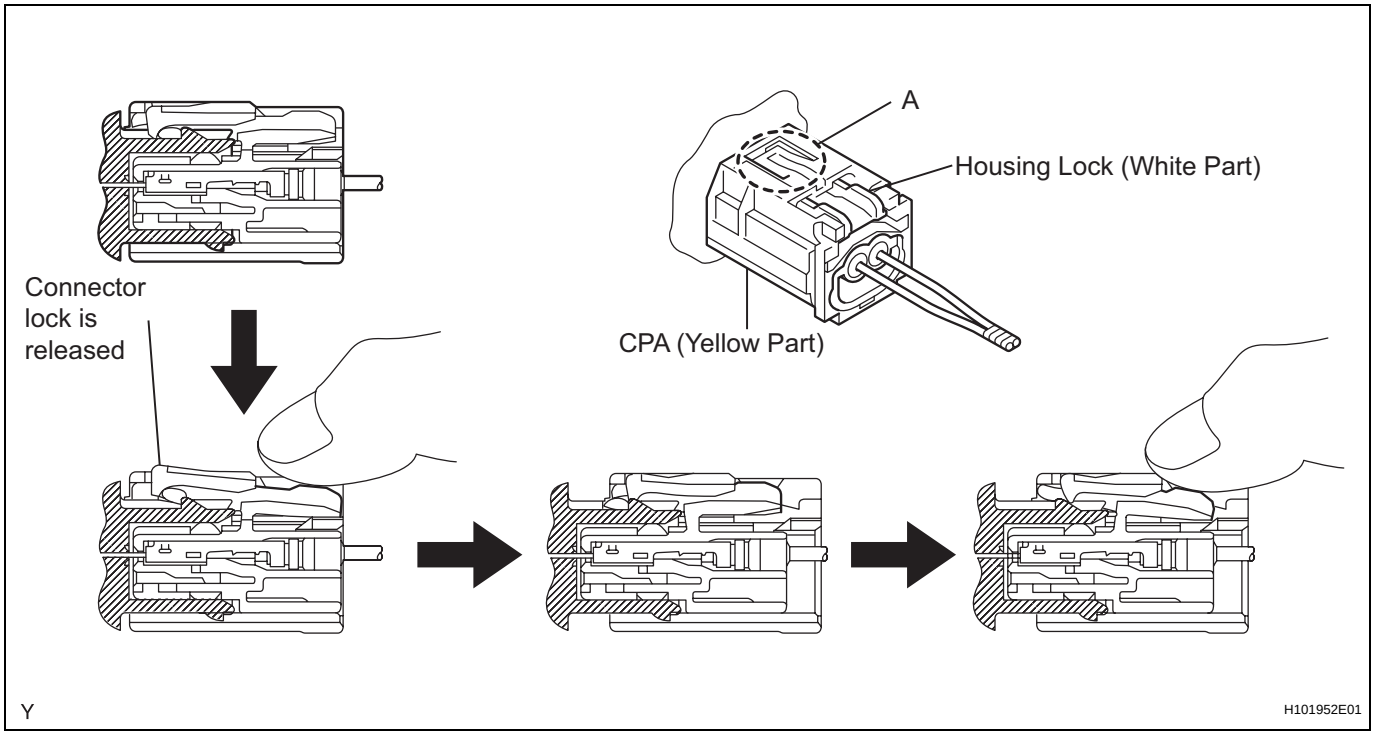
(b) Push the lever to connect the holder (with connectors). (When locking, a click sound can be heard.)
HINT:
The holder slides into the center airbag sensor when it is being connected. Do not hold the holder while connecting, as it may result in an insecure fit.



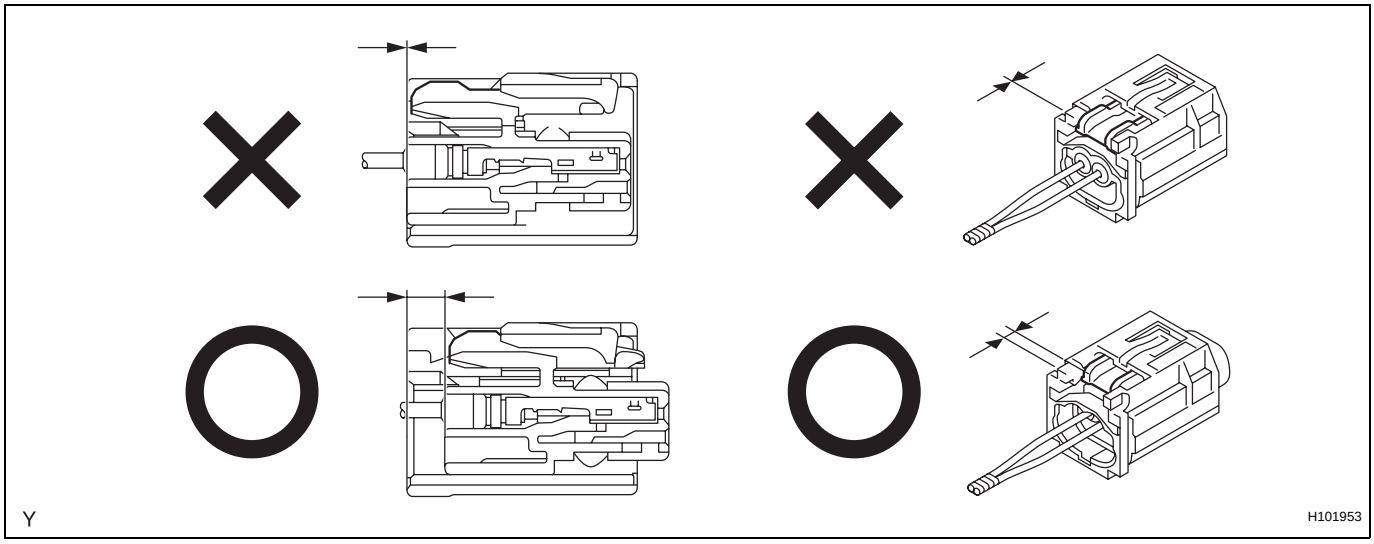
12. DISCONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR

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

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



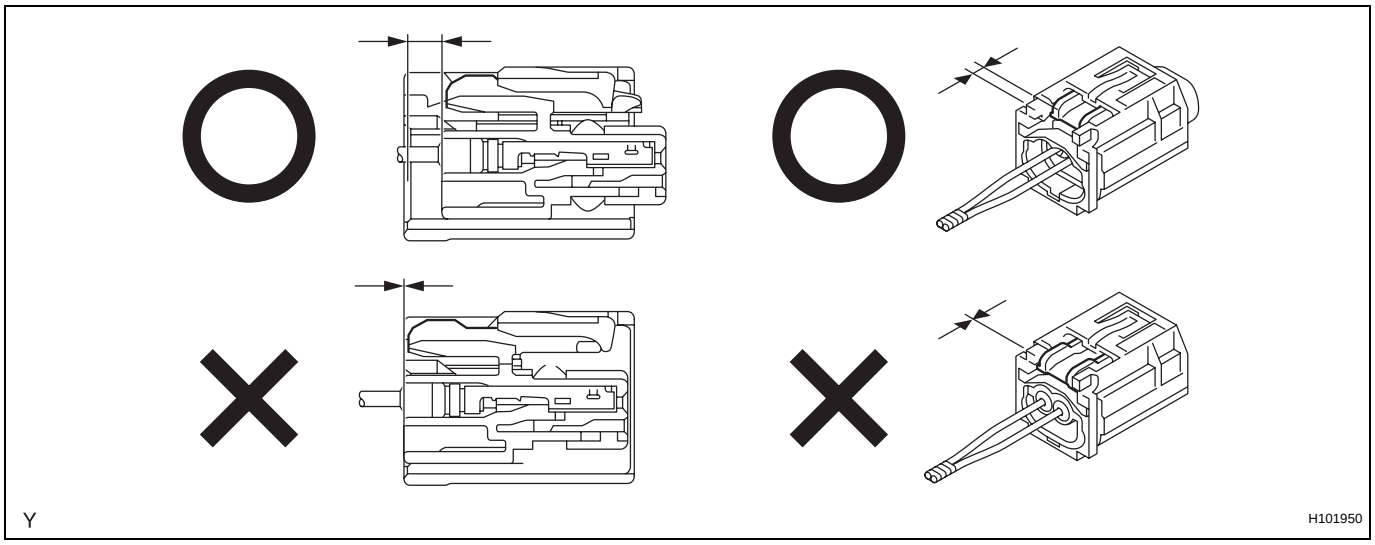
(c) After disconnecting the connector, check that the position of the housing lock (white part) is as shown in the illustration.



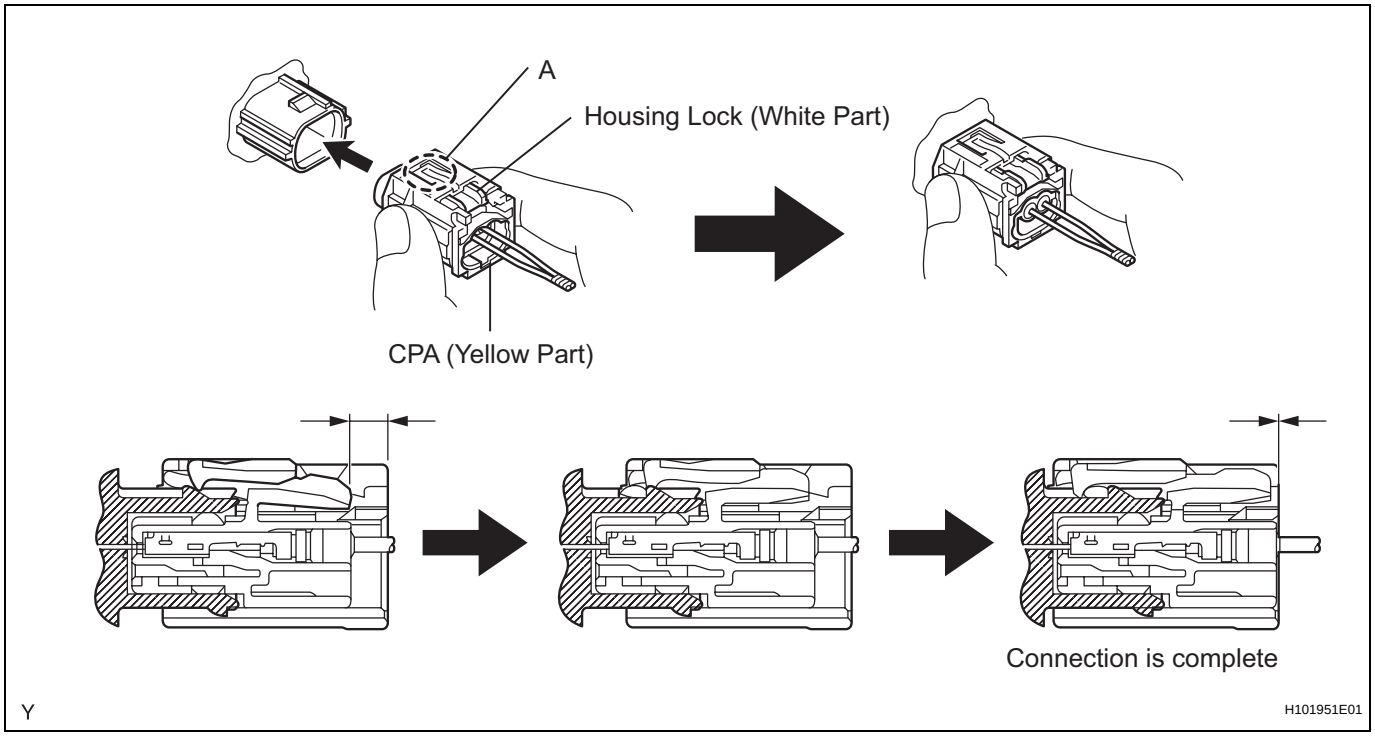
RS

13. CONNECTION OF CONNECTORS FOR FRONT AIRBAG SENSOR

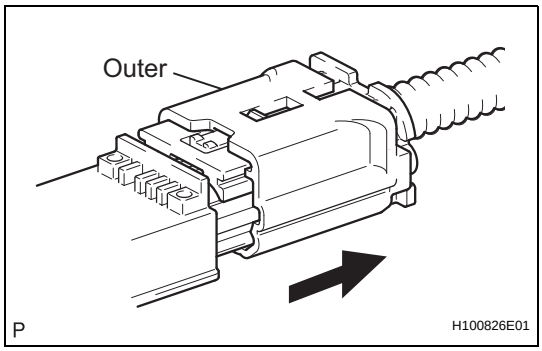
(a) Before connecting the connectors, check that the position of the housing lock (white part) is as shown in the illustration.



(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. Do not hold the housing lock (white part) and part A, as it may result in an insecure fit.



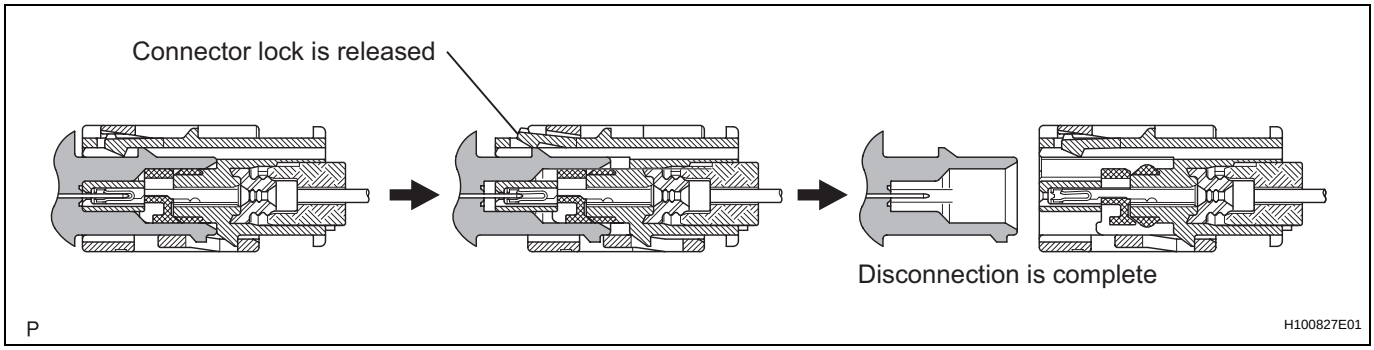
RS



14. DISCONNECTION OF CONNECTORS FOR SIDE AIRBAG SENSOR AND REAR AIRBAG SENSOR

(a) While holding both sides of the outer connector locking sleeve, slide the outer in the direction shown by the arrow.

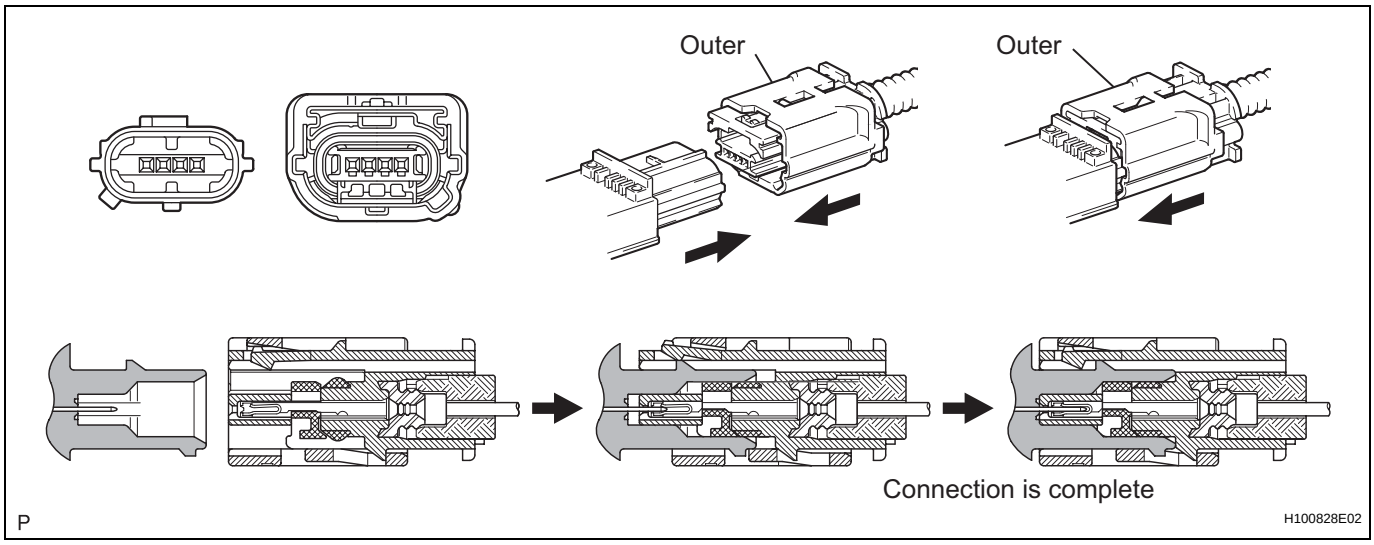
(b) When the connector lock is released, the connectors are disconnected.
HINT:
Be sure to hold both outer flanks. Holding the top and bottom sides will make disconnection difficult.



15. CONNECTION OF CONNECTORS FOR SIDE AIRBAG SENSOR AND REAR AIRBAG SENSOR

(a) Connect the connector as shown in the illustration (When locking, make sure that the outer returns to its original position and a click sound can be heard).
HINT:
When connecting, the outer slides. Do not hold the outer while connecting, as it may result in an insecure fit.

RS



OCCUPANT CLASSIFICATION SYSTEM

PRECAUTION

1. INSPECTION PROCEDURE FOR VEHICLE INVOLVED IN ACCIDENT

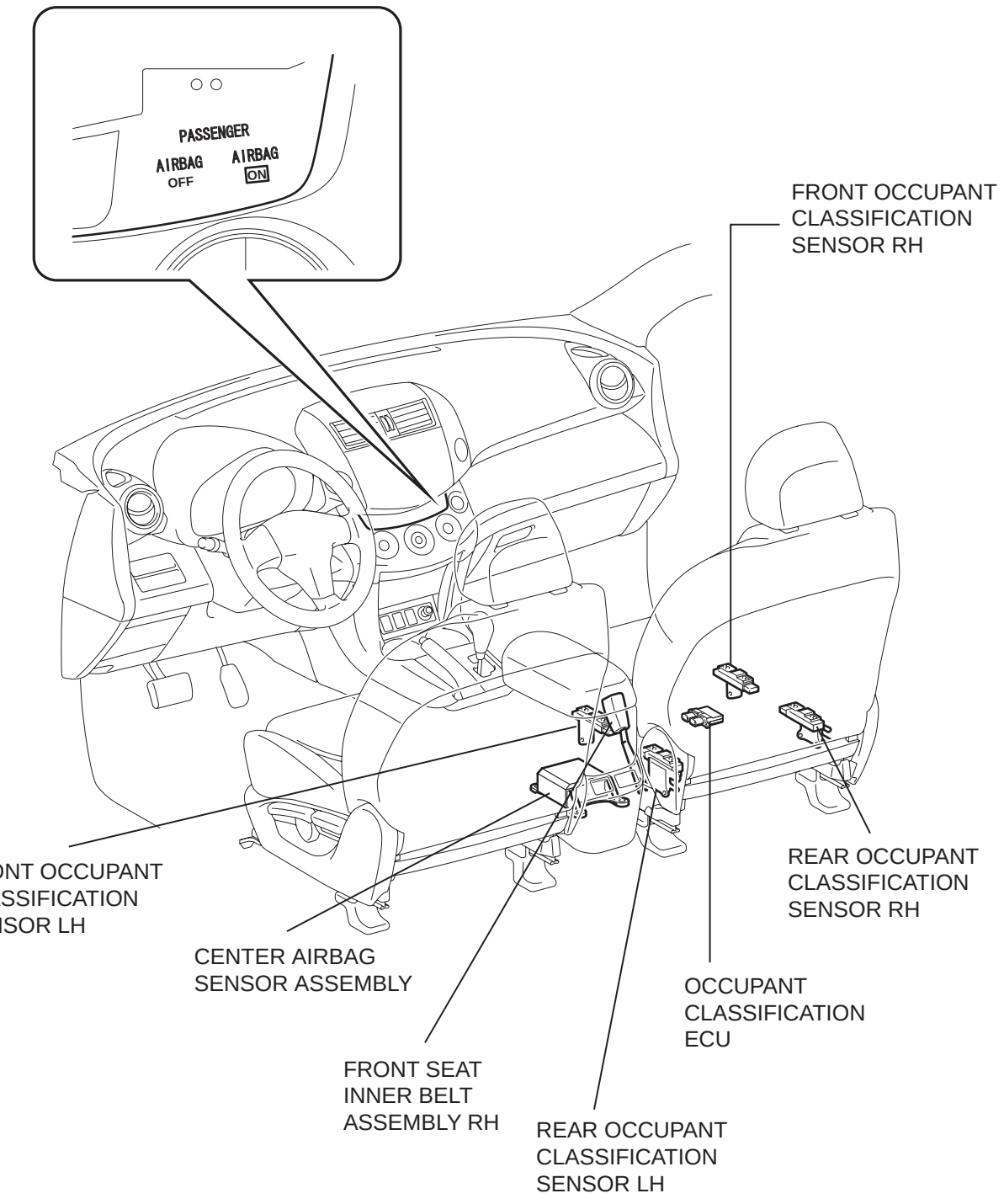
(a) Perform the zero point calibration and sensitivity check if any of the following conditions apply.

- The occupant classification ECU is replaced.
- Accessories (seat cover etc.) are installed.
- The front passenger seat is removed from the vehicle.
- The passenger airbag ON/OFF indicator (OFF) comes on when the front passenger seat is not occupied.
- The vehicle is brought to the workshop for repair due to an accident or a collision.

NOTICE:

When a vehicle involved in an accident is brought into the workshop for repair, check the flatness of the floor where the front passenger seat is mounted. If the flatness is not within +-3.0 mm (+-0.118 in.), adjust it to the specified range.

PARTS LOCATION



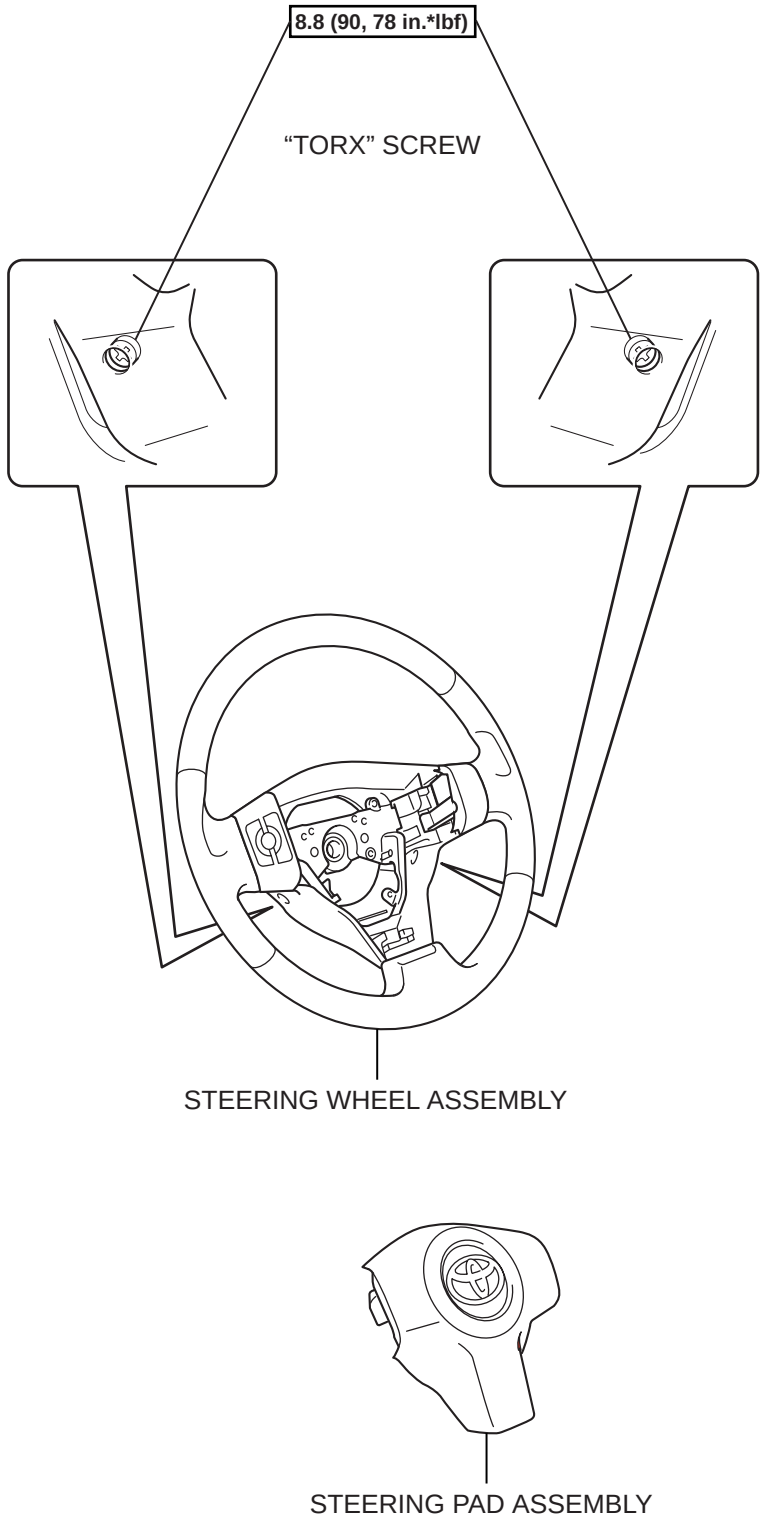
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STEERING PAD

COMPONENTS

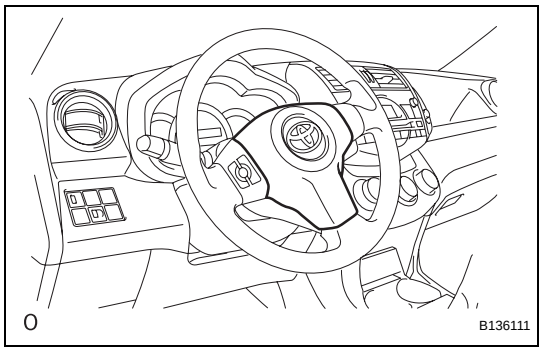


N*m (kgf*cm, ft.*lbf) : Specified torque

O

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RS

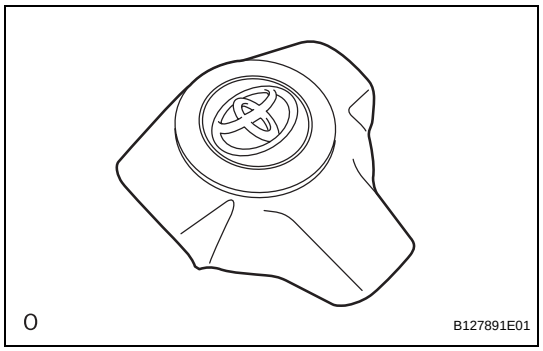


ON-VEHICLE INSPECTION

1. CHECK STEERING PAD ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)

(a) Perform a diagnostic system check (see page RS-49).

(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 with a new one.
CAUTION:
For removal and installation of the steering pad, be sure to follow the correct procedure.

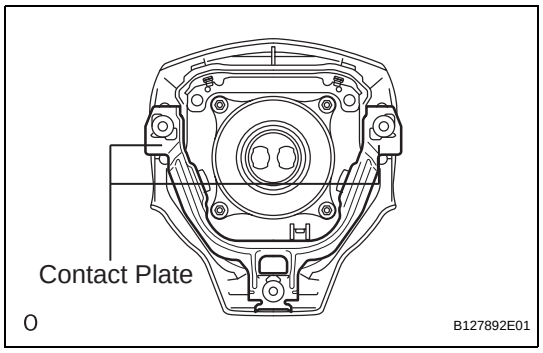


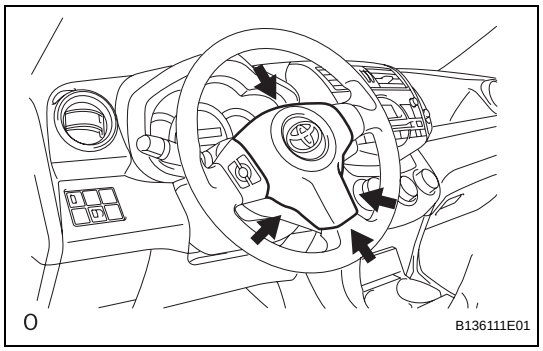
2. CHECK STEERING PAD ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)

(a) Perform a diagnostic system check (see page RS-49).

(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 with a new one.
CAUTION:
For removal and installation of the steering pad, be sure to follow the correct procedure.
HINT:
- If the steering pad contact plates are deformed, never repair them. Always replace the steering pad 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.

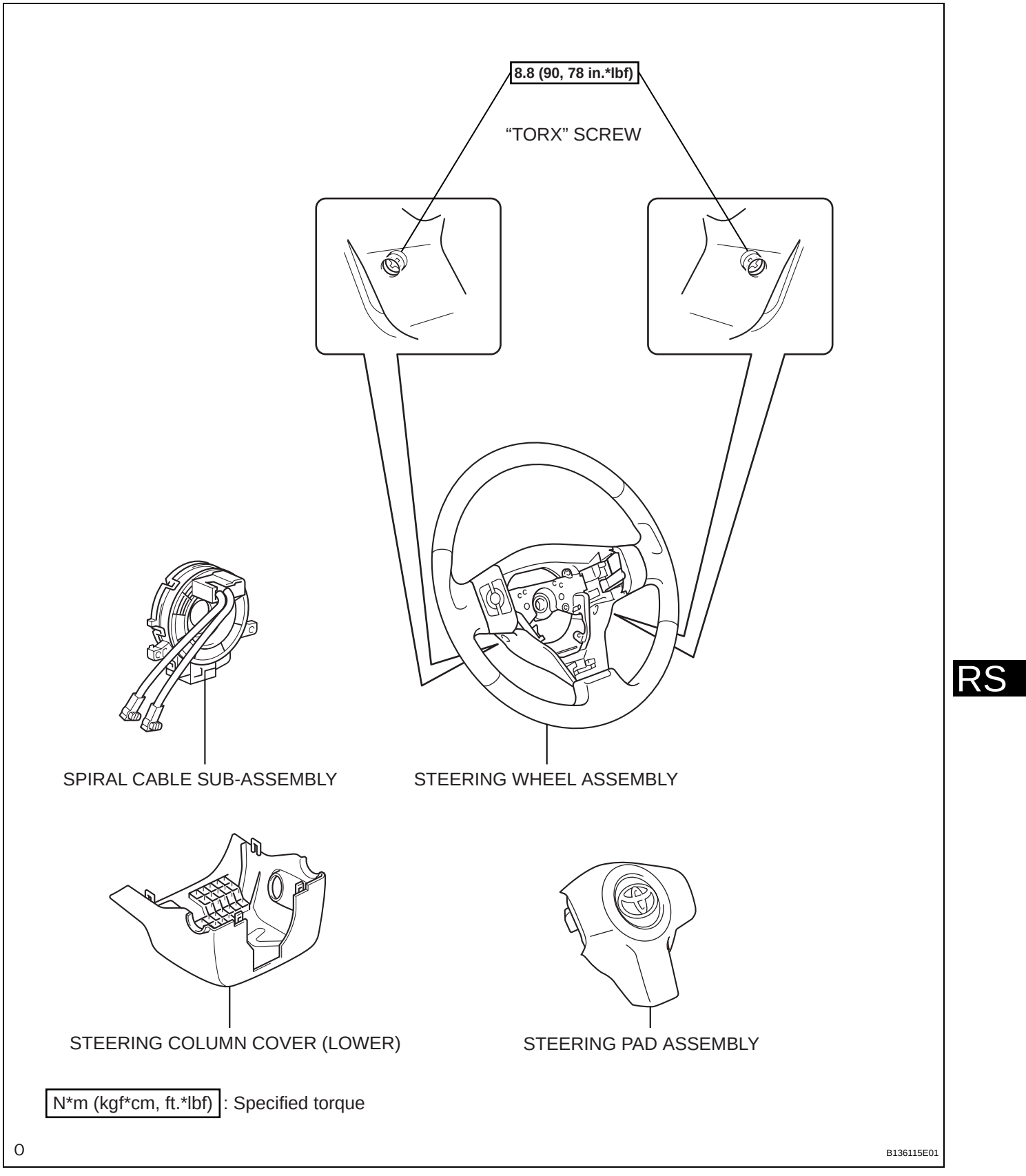




RS

SPIRAL CABLE

COMPONENTS

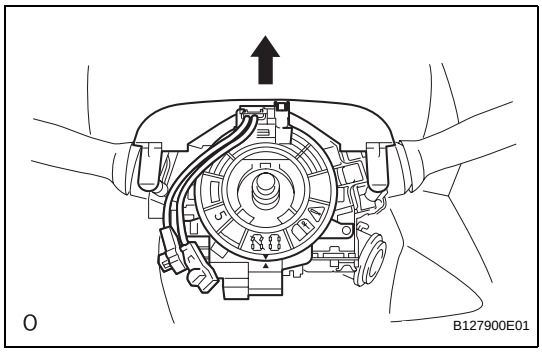


RS

REMOVAL

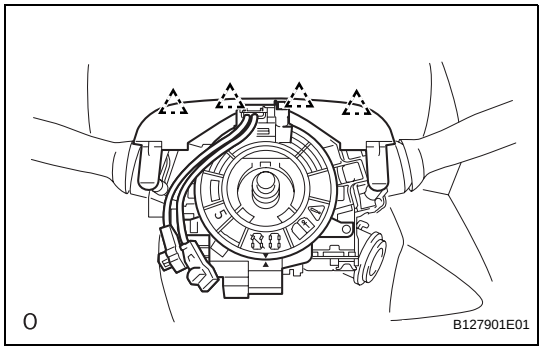
CAUTION:
Be sure to read the precautionary notices concerning the SRS airbag system before servicing it (see page RS-1).

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-336)**
3. **PLACE FRONT WHEELS FACING STRAIGHT AHEAD**
4. **REMOVE STEERING WHEEL ASSEMBLY (See page SR-12)**
5. **REMOVE STEERING COLUMN COVER (LOWER) (See page SR-12)**
6. **REMOVE SPIRAL CABLE SUB-ASSEMBLY**
   (a) Rise the steering column cover (upper).
   NOTICE:
   When handling the airbag connector, do not damage the airbag wire harness.

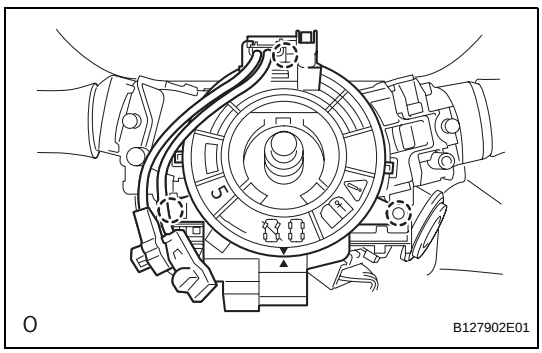


RS

(b) Detach the 4 clips and remove the column cover (upper).

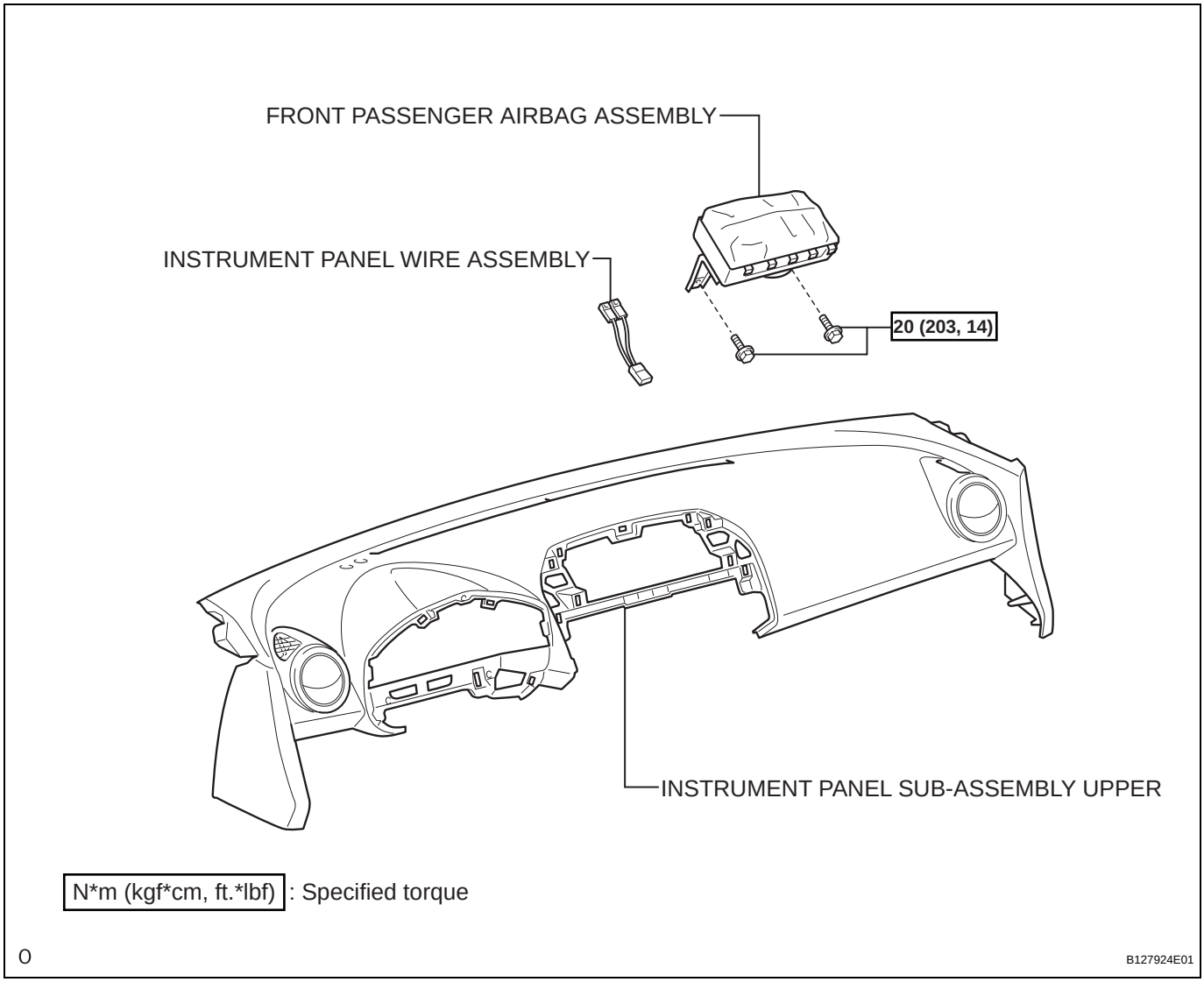


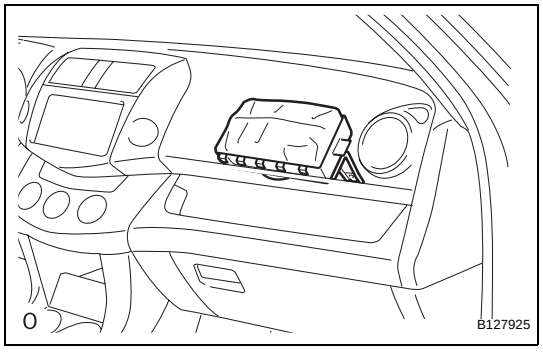
(c) Detach the 3 claws and remove the spiral cable.



FRONT PASSENGER AIRBAG ASSEMBLY

COMPONENTS

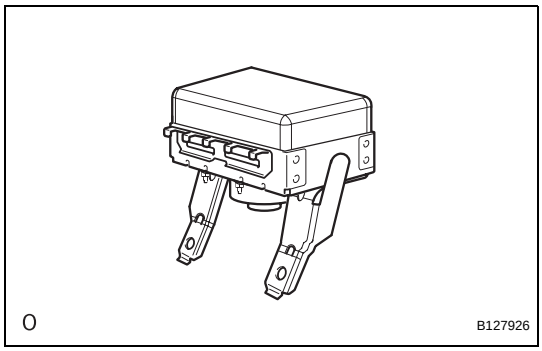


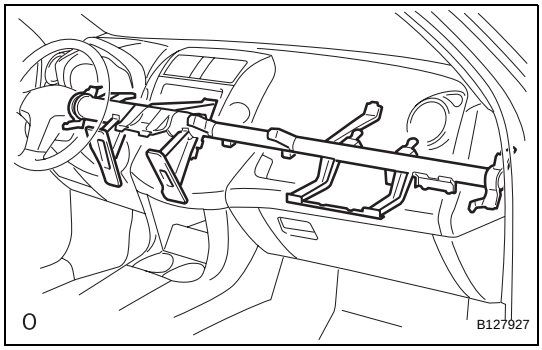


ON-VEHICLE INSPECTION

1. **CHECK FRONT PASSENGER AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-49).
   (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.

RS





2. CHECK FRONT PASSENGER AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)

(a) Perform a diagnostic system check (see page RS-49).

(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.

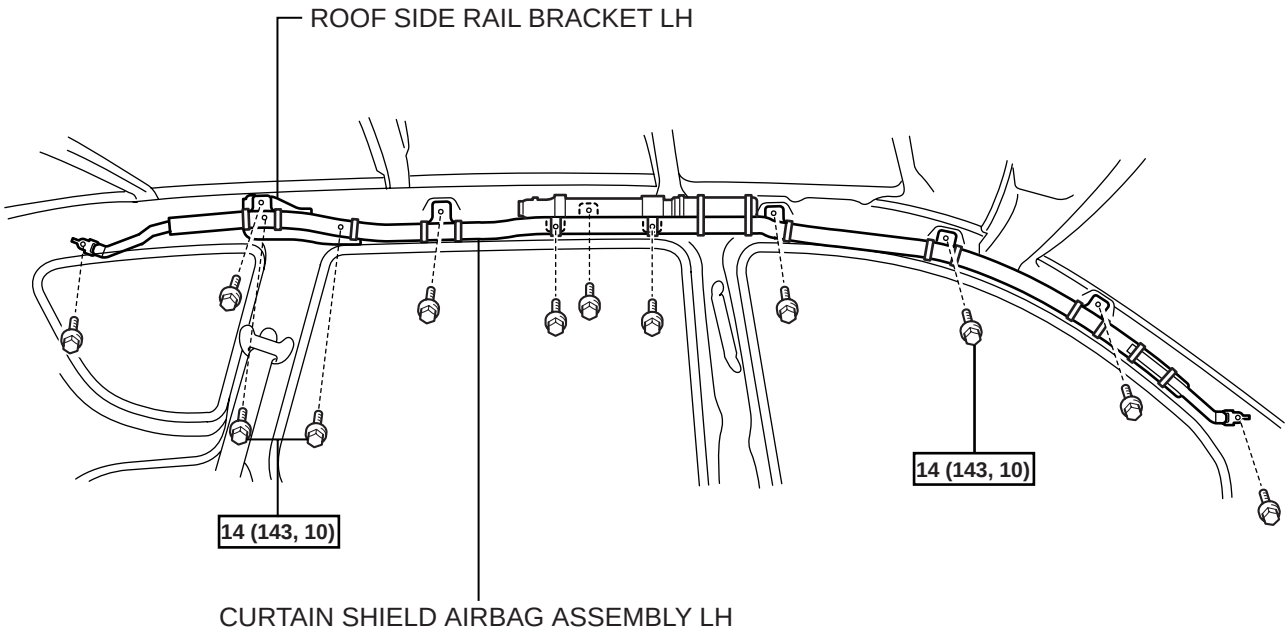
If any of the defects mentioned above are present, replace the front passenger airbag with a new one.

CAUTION:

For removal and installation of the front passenger airbag, be sure to follow the correct procedures.

CURTAIN SHIELD AIRBAG ASSEMBLY

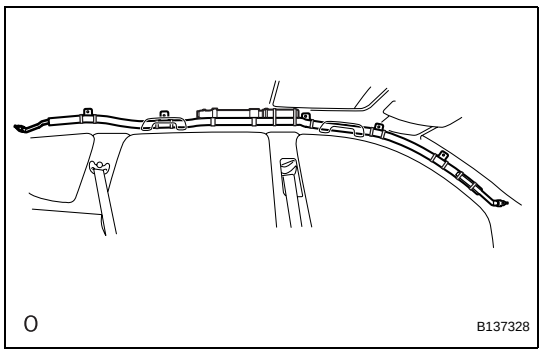
COMPONENTS



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

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ON-VEHICLE INSPECTION

1. **CHECK CURTAIN SHIELD AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-49).
   (b) With the curtain shield airbag assembly installed on the vehicle, perform a visual check. If any of the defects mentioned below are present, replace the curtain shield airbag with a new one:
   Cuts, minute cracks or marked discoloration on the curtain shield airbag assembly.

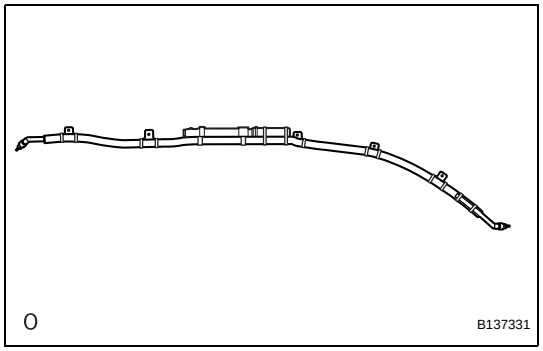
If any of the defects mentioned above are present, replace the curtain shield airbag with a new one.

CAUTION:

For removal and installation of the curtain shield airbag, be sure to follow the correct procedure.

2. CHECK CURTAIN SHIELD AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

(a) Perform a diagnostic system check (see page RS-49).

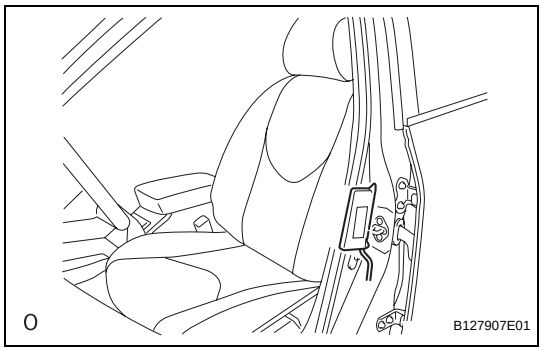


(b) With the curtain shield airbag removed from the vehicle, perform a visual check. If there are any defects as mentioned below, replace the curtain shield airbag with a new one:

- 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, be sure to follow the correct procedure.



FRONT SEAT SIDE AIRBAG ASSEMBLY

ON-VEHICLE INSPECTION

1. CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION)

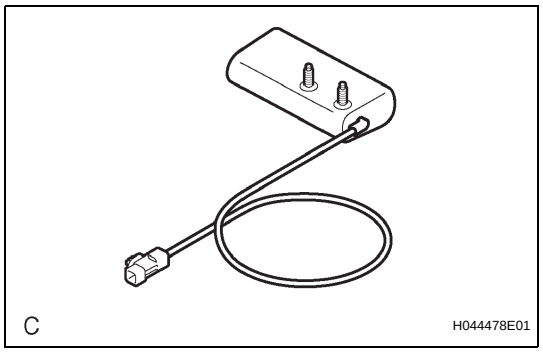
(a) Perform a diagnostic system check (see page RS-49).

(b) With the front seat side airbag installed on the vehicle, perform a visual check. If any of the defects mentioned below are present, replace the front seat with a new one:

Cuts, minute cracks or marked discoloration on the front seat side airbag or around the front seat side airbag.

2. CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

(a) Perform a diagnostic system check (see page RS-49).



(b) With the front seat side airbag removed from the vehicle, perform a visual check.

- Cuts, minute cracks or marked discoloration on the front seat side airbag.
- Cracks or other damage to the wire harness or connector.

If any of the defects mentioned above are present, replace the front seat with a new one.

CAUTION:

For removal and installation procedures of the front seat side airbag, be sure to follow the correct procedure.

RS

DISPOSAL

HINT:
When scrapping a vehicle equipped with SRS or disposing of the front seat side airbag, 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.

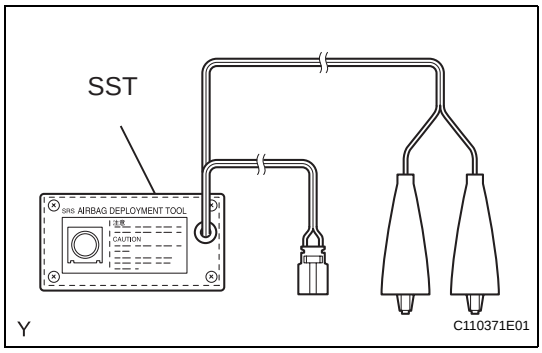
CAUTION:

- **Never dispose of a front seat side airbag assembly that has an undeployed 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 front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.**
- **Do not apply water to a front seat side airbag with a deployed airbag.**
- **Always wash your hands with water after completing the operation.**

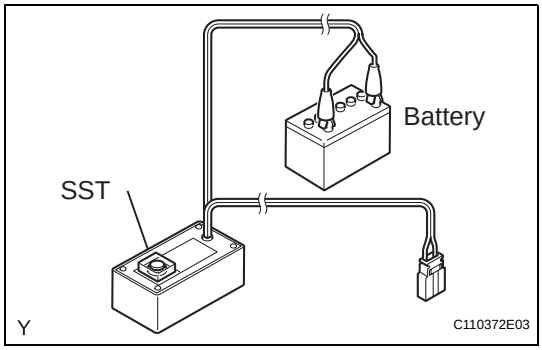
1. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN INSTALLED IN VEHICLE)

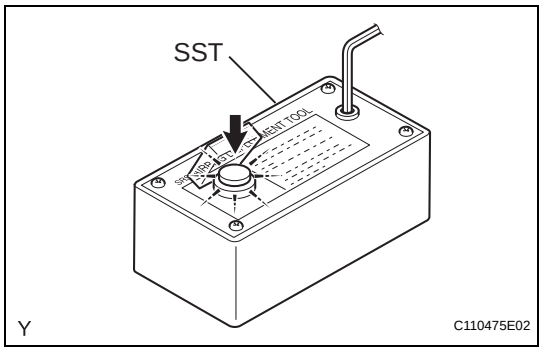
HINT:
Prepare a battery as the power source to deploy the airbag.

(a) Check if SST is functioning properly.
SST 09082-00700, 09082-00750



(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.





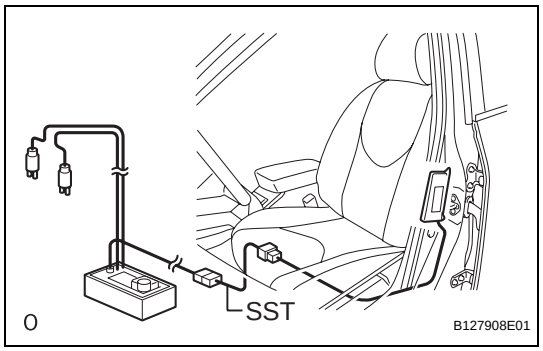
(2) Press the SST activation switch, and check that the LED of the SST activation switch illuminates.
CAUTION:
If the LED illuminates when the activation switch is not pressed, SST may have a malfunction, in which case that SST should not be used.
(3) Disconnect SST from the battery.

(b) Follow the "Precaution" (see page RS-1).

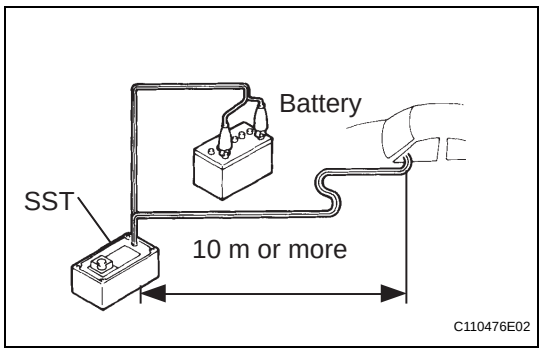
(c) Disconnect the cable from the negative (-) battery terminal.
CAUTION:
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

(d) Manual seat:
Remove the front seat (see page SE-11).
Power seat:
Remove the front seat (see page SE-27).
HINT:
Keep the front seat in the cabin.

(e) Install SST.
(1) Disconnect the connector (yellow colored one) from the front seat side 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 side airbag connector.
NOTICE:
To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.
(3) Manual seat:
Install the front seat (see page SE-22).
Power seat:
Install the front seat (see page SE-37).



(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 doors and windows of the vehicle.
NOTICE:
Take care not to damage the SST wire harness.
(6) Connect the SST's red clip to the battery positive (+) terminal and the black clip 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.

RS

(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 front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
- **Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.**
- **Do not apply water to a front seat side airbag with 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.

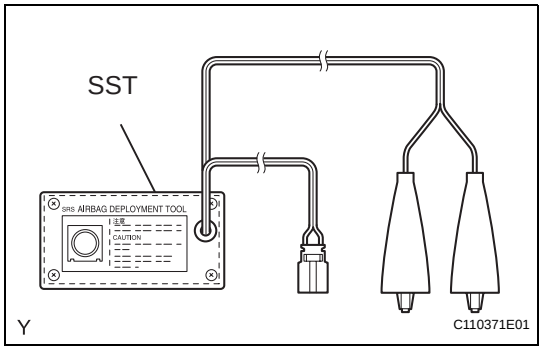
2. DISPOSE OF FRONT SEAT SIDE AIRBAG ASSEMBLY (WHEN NOT INSTALLED IN VEHICLE)

NOTICE:

- **When disposing of the front seat side 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.

(b) Remove the front seat side airbag.

(1) Manual seat:

Remove the front seat (see page SE-11).

Power seat:

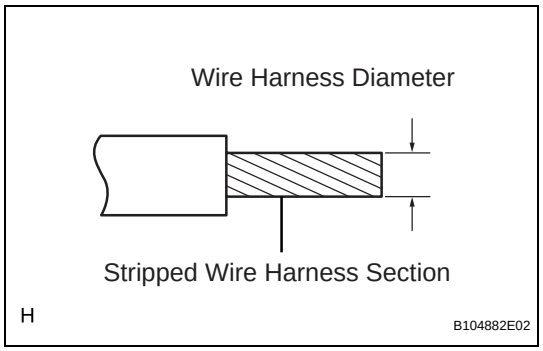
Remove the front seat (see page SE-27).

(2) Remove the 2 nuts and front seat side airbag from the seatback.

CAUTION:

- **When removing the front seat side airbag, work must be started 90 seconds after the ignition switch is turned off and the negative (-) terminal cable is disconnected from the battery.**
- **When storing the front seat side airbag, keep the airbag deployment side facing upward.**

RS



(c) Using a service-purpose wire harness for the vehicle, tie down the front seat side airbag to the tire.

Wire harness:

Stripped wire harness section

1.25 mm^2 or more (0.0019 in.^{2} or more)

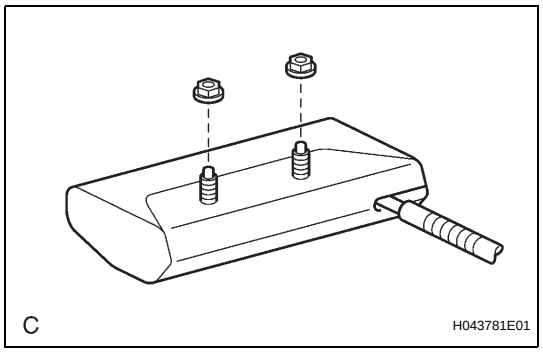
HINT:

To calculate the area of the stripped wire harness section:

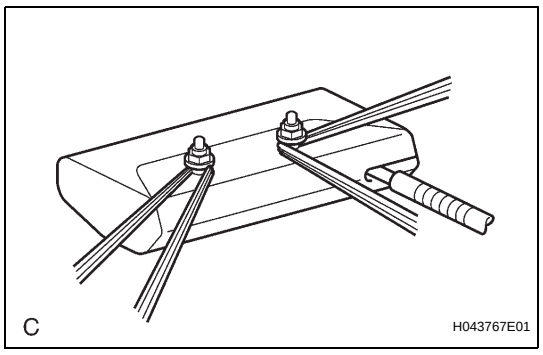
Area = 3.14 x (Diameter)^2/4

CAUTION:

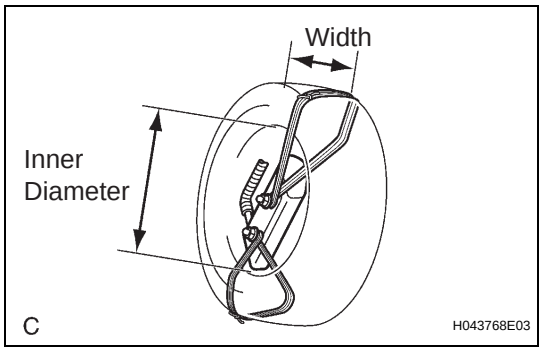
If the wire harness is too thin or an alternative object is used to tie down the front seat side airbag, it may be snapped by the shock when the airbag is deployed. Always use a wire harness for vehicle use with an area of at least 1.25 mm^2 (0.0019 in.^{2}).



(1) Install the 2 nuts to the front seat side airbag assembly.



(2) Wind the wire harness around the stud bolts of the front seat side airbag as shown in the illustration.



(3) Position the front seat side airbag inside the tire.

Tire size:

Width minimum:

185 mm (7.28 in.)

Inner diameter minimum:

360 mm (14.17 in.)

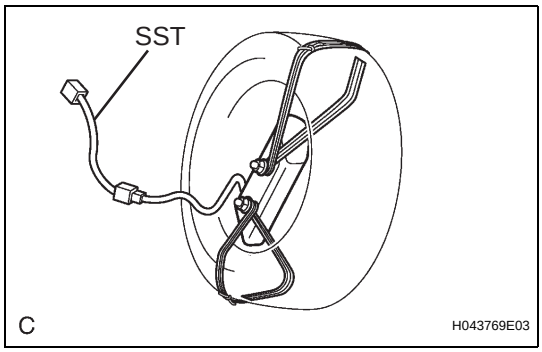
CAUTION:

- **Make sure that the wire harness is tight. If there is slack in a wire harness, the front seat side airbag may become loose due to the shock when the airbag is deployed.**

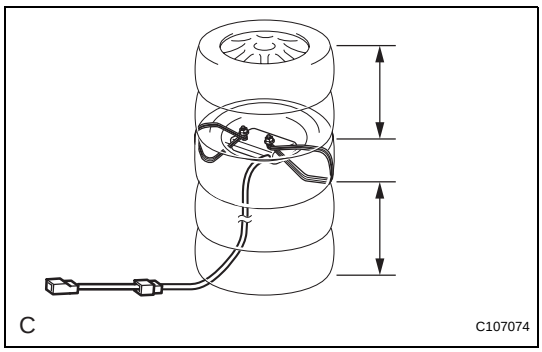
RS

- **Always tie down the front seat side airbag with the airbag deployment direction facing inside the tire.**

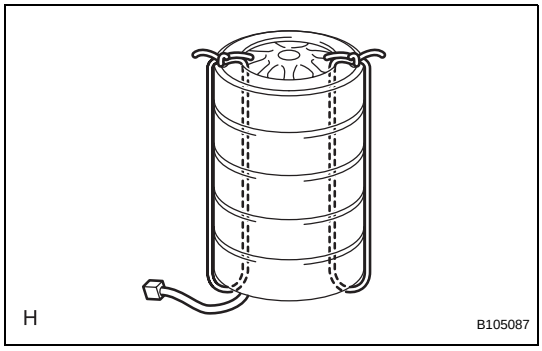
NOTICE:
Use a disc wheel (with tire) that you are planning to throw away, as the airbag deployment will damage the disc wheel.



(d) Install SST.
(1) Connect the SST connector to the front seat side airbag connector.
SST 09082-00750

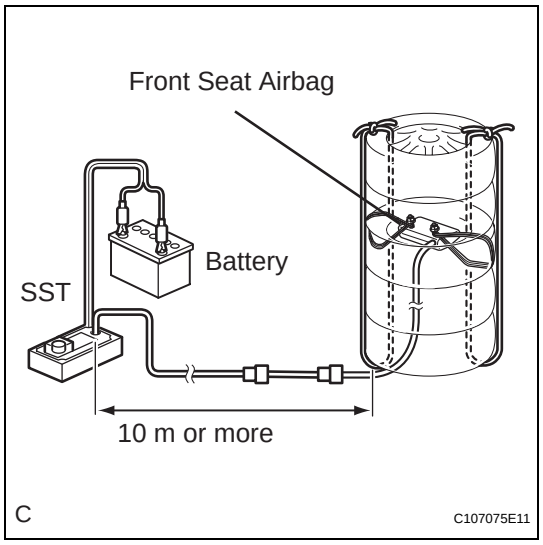


(e) Place the tires.
(1) Place at least 2 tires under the tire to which the front seat side airbag is tied.
(2) Place at least 2 tires over the tire to which the front seat side airbag is tied. The top tire should have the disc wheel installed.
NOTICE:
Do not place the SST connector under the tire because it could be damaged.



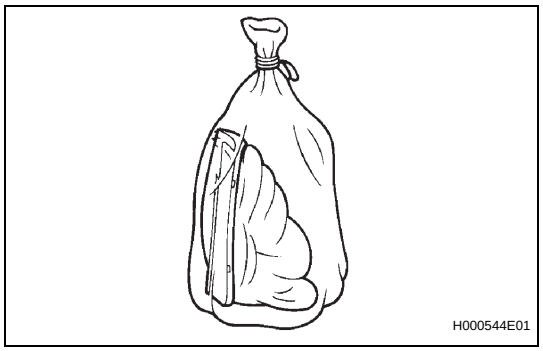
(3) Tie the tires together with 2 wire harnesses.
CAUTION:
Make sure that the wire harnesses are tight. Looseness in the wire harness may result in the tires coming free due to the shock when the airbag is deployed.

RS



(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.

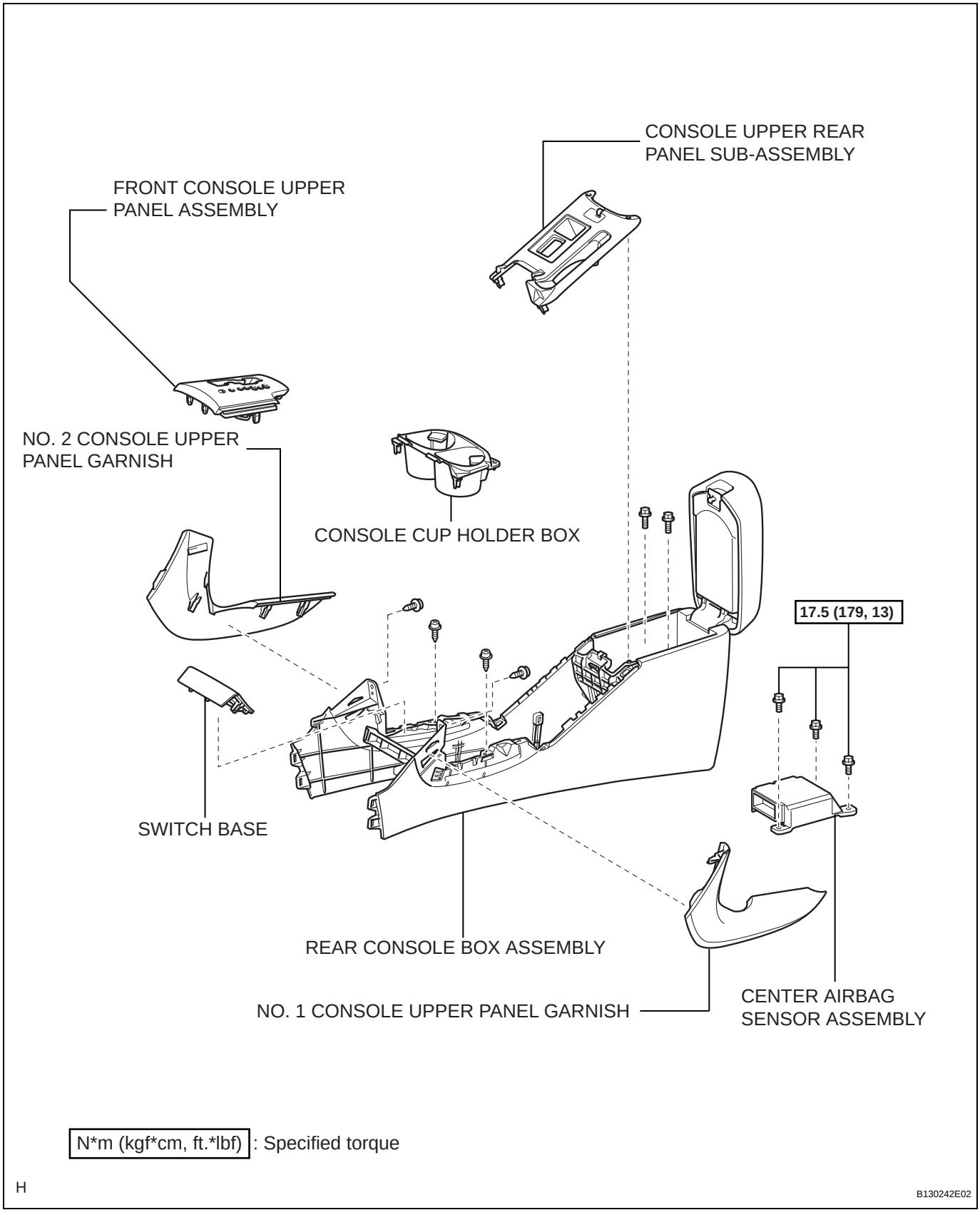
(g) Deploy the airbag.
  (1) Connect the SST's red clip to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.
  (2) Check that no one is within a 10 m (33 ft.) radius of the tire to which the front seat side airbag is tied.
  (3) Press the SST activation switch 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 side airbag.
  CAUTION:
  - **The front seat side airbag becomes extremely hot when the airbag is deployed, so do not touch it for at least 30 minutes after deployment.**
  - **Use gloves and safety glasses when handling a front seat side airbag with a deployed airbag.**
  - **Do not apply water to a front seat side airbag assembly with a deployed airbag.**
  - **Always wash your hands with water after completing the operation.**
  (1) Remove the front seat side airbag from the tire.
  (2) Place the front seat side airbag in a plastic bag, tie it tightly and dispose of it in the same way as other general parts.

CENTER AIRBAG SENSOR ASSEMBLY

COMPONENTS



RS

ON-VEHICLE INSPECTION

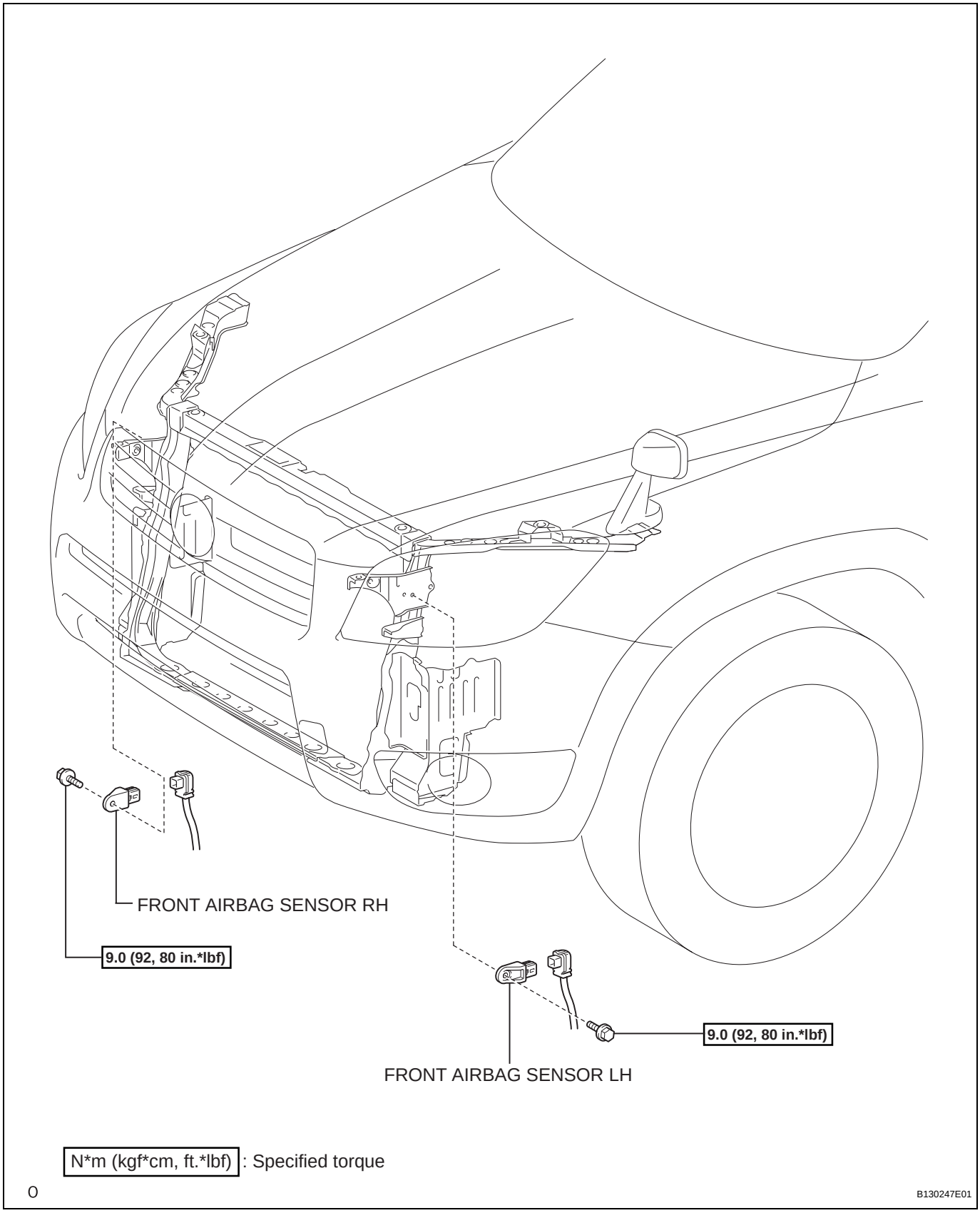
1. **CHECK CENTER AIRBAG SENSOR ASSEMBLY (VEHICLE NOT INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-49).

2. **CHECK CENTER AIRBAG SENSOR ASSEMBLY (VEHICLE INVOLVED IN COLLISION AND AIRBAG NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-49).

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, be sure to follow the correct procedures.

FRONT AIRBAG SENSOR

COMPONENTS



RS

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-49).

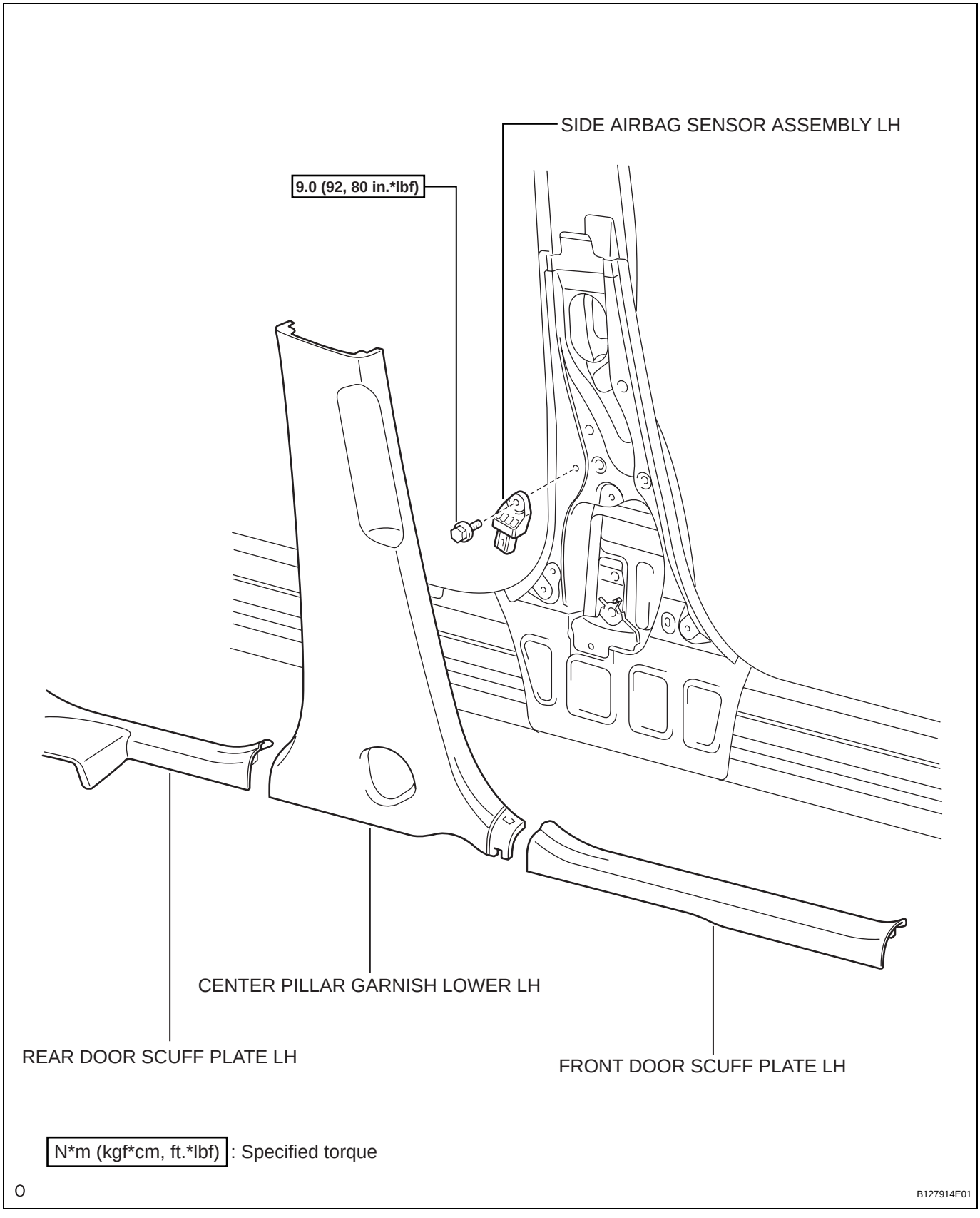
2. **CHECK FRONT AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-49).
   (b) If the front fender of the vehicle or its periphery are damaged, perform a visual check:
   - Check for cracks, dents or chips in the case.
   - Check for cracks, dents, chips and scratches in the connector.
   - Check for peeling off of the label or damage to the serial number.

   If any of the defects mentioned above are present, replace the front airbag sensor with a new one.

3. **CHECK FRONT AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS 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.

SIDE AIRBAG SENSOR

COMPONENTS



RS

ON-VEHICLE INSPECTION

1. CHECK SIDE AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)

(a) Perform a diagnostic system check (see page RS-49).

2. CHECK SIDE AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)

(a) Perform a diagnostic system check (see page RS-49).

(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 HAS DEPLOYED)

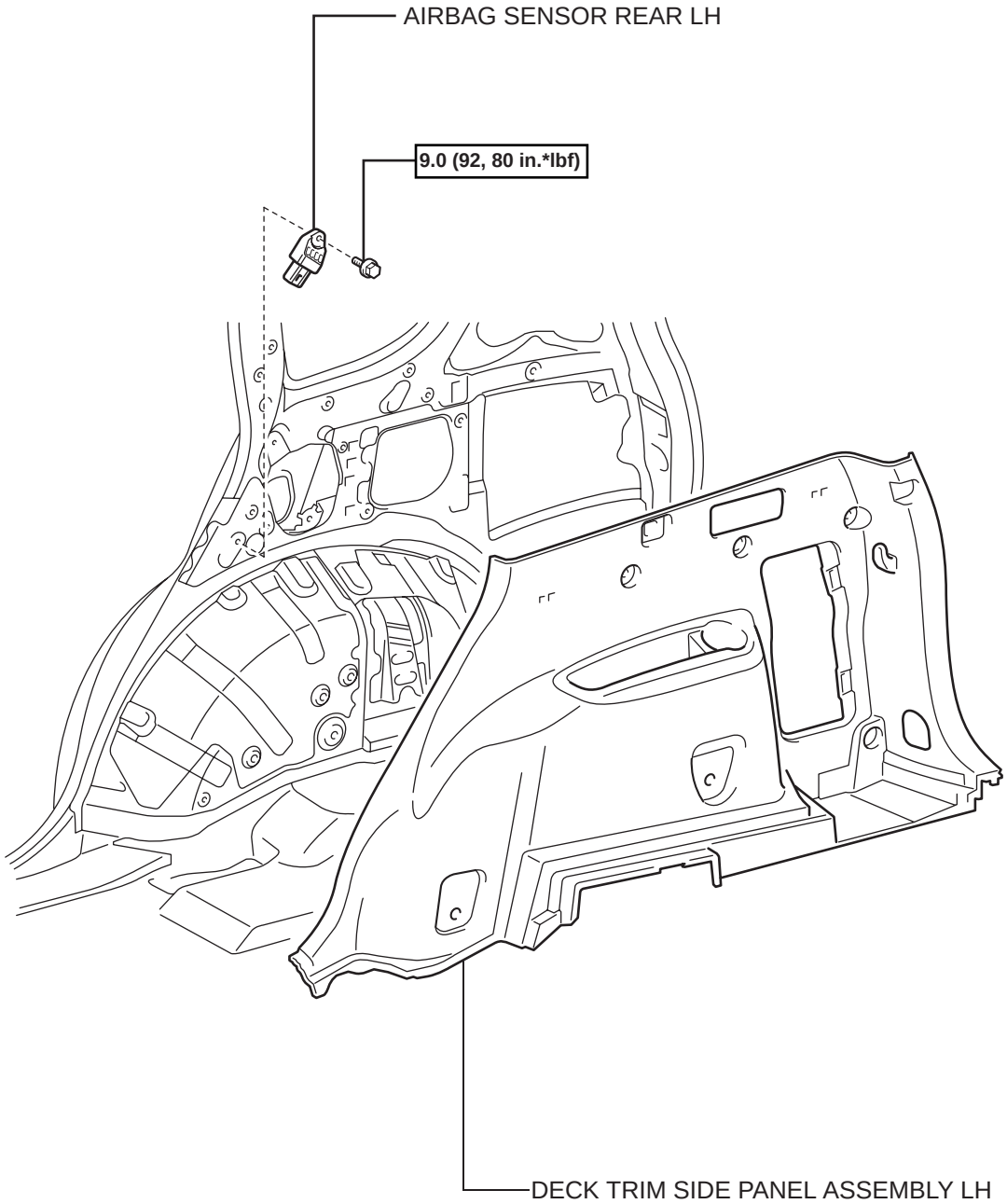
(a) Replace the side airbag sensor.

CAUTION:

- **For removal and installation procedures of the side airbag sensor, be sure to follow the correct procedure.**
- **If the airbags have deployed, replace the side airbag sensor on the side in which the collision occurred. Replace both if necessary.**

REAR AIRBAG SENSOR

COMPONENTS



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

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ON-VEHICLE INSPECTION

1. **CHECK REAR AIRBAG SENSOR (VEHICLE NOT INVOLVED IN COLLISION)**
   (a) Perform a diagnostic system check (see page RS-49).

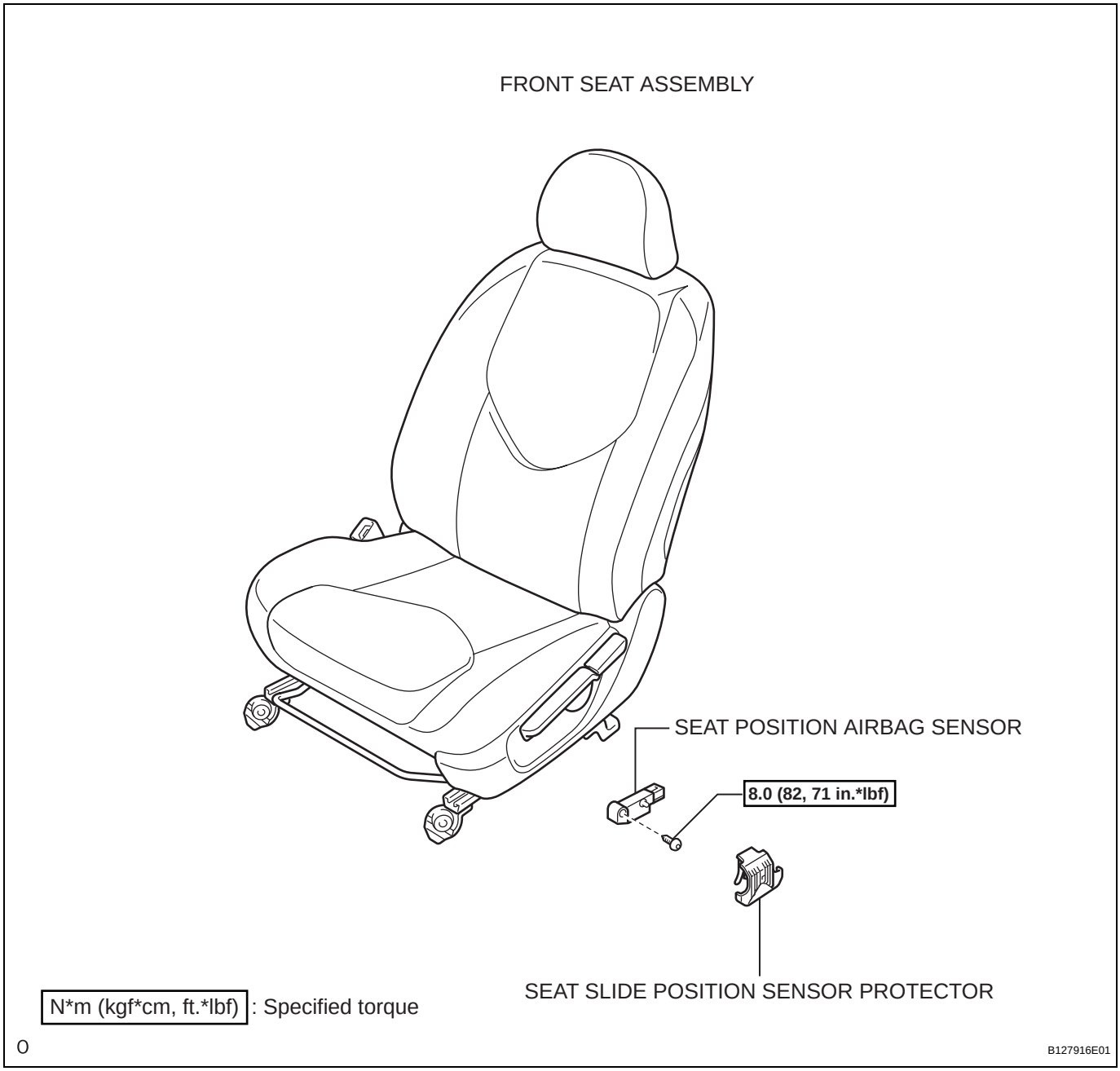
2. **CHECK REAR AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS NOT DEPLOYED)**
   (a) Perform a diagnostic system check (see page RS-49).
   (b) When the quarter panel of the vehicle or its periphery is damaged, check if there is any damage to the rear airbag sensor. If there are any defects 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 procedure.

3. **CHECK REAR AIRBAG SENSOR (VEHICLE INVOLVED IN COLLISION AND AIRBAG HAS DEPLOYED)**
   (a) Replace the rear airbag sensor.
   CAUTION:
   - **For removal and installation procedures of the rear airbag sensor, be sure to follow the correct procedure.**
   - **If the airbags have deployed, replace the side airbag sensor on the side in which the collision occurred. Replace both if necessary.**

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-49).

2. CHECK SEAT POSITION SENSOR (VEHICLE INVOLVED IN COLLISION)

(a) Perform a diagnostic system check (see page RS-49).

(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 procedure.

OCCUPANT CLASSIFICATION ECU

COMPONENTS



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ON-VEHICLE INSPECTION

1. INSPECT OCCUPANT CLASSIFICATION ECU (VEHICLE NOT INVOLVED IN COLLISION)

(a) Perform a diagnostic system check (see page RS-236).

2. INSPECT OCCUPANT CLASSIFICATION ECU (VEHICLE INVOLVED IN COLLISION)

(a) Perform a diagnostic system check (see page RS-236).

(b) Even if the airbag was not deployed, check if there is any damage to the occupant classification ECU. If there are any defects as mentioned below, replace the occupant classification ECU with a new one:

- Cracks, dents or chips on the case.
- Cracks or other damage to the connector.

CAUTION:
Be sure to follow the correct removal and installation procedures.